

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 03/09/15 16:26 |
| Attention: David Holland | Received Date: 02/19/15 09:15 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5B19011 | |

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

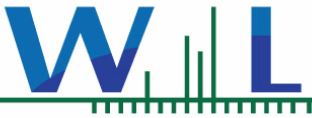
Enclosed are the results of analyses for samples received 02/19/15 09:15 with the Chain of Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Sample Comments | Lab ID | Matrix | Date Sampled |
|-------------------|--------------------|------------------------|---------------|---------------|---------------------|
| MW-5D(Monitoring) | Coral Shaw | AB26966 | 5B19011-01 | Water | 02/17/15 14:02 |

ANALYSES

Anions by IC, EPA Method 9056

Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

5B19011-01 MW-5D(Monitoring)

Sampled: 02/17/15 14:02

Sampled By: Coral Shaw

Matrix: Water

Sample Note: AB26966

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5B1418

Prepared: 02/26/15 13:00

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 25 | ug/l | 2.5 | 02/26/15 15:11 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5B1002

Prepared: 02/19/15 12:24

Analyst: Maxwell Wang

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 02/27/15 02:15 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 02/27/15 02:15 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Endrin | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 02/27/15 02:15 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 02/27/15 02:15 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 02/27/15 02:15 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 02/27/15 02:15 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 02/27/15 02:15 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 02/27/15 02:15 | |
| Surr: Decachlorobiphenyl | 58 % | Conc:0.0575 | 70-130 | % | | S-GC |
| Surr: Tetrachloro-meta-xylene | 80 % | Conc:0.0796 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

5B19011-01 MW-5D(Monitoring)

Sampled: 02/17/15 14:02

Sampled By: Coral Shaw

Matrix: Water

Sample Note: AB26966

Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

Anions by IC, EPA Method 9056 - Quality Control

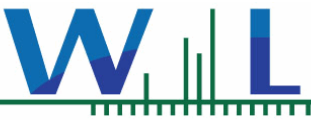
Batch W5B1418 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5B1418-BLK1) | | | | Analyzed: 02/26/15 13:47 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5B1418-BS1) | | | | Analyzed: 02/26/15 14:06 | | | | | | |
| Iodide | 40.5 | 10 | ug/l | 40.0 | | 101 | 85-115 | | | |
| Matrix Spike (W5B1418-MS1) | | | | Source: 5B19011-01 | | Analyzed: 02/26/15 16:49 | | | | |
| Iodide | 89.8 | 25 | ug/l | 100 | ND | 90 | 80-120 | | | |
| Matrix Spike Dup (W5B1418-MSD1) | | | | Source: 5B19011-01 | | Analyzed: 02/26/15 17:07 | | | | |
| Iodide | 94.5 | 25 | ug/l | 100 | ND | 94 | 80-120 | 5 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5B1002 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5B1002-BLK1) | | | | Analyzed: 02/27/15 00:12 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5B1002 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5B1002-BLK1) | | | | | | | | | | |
| Analyzed: 02/27/15 00:12 | | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0896 | | ug/l | 0.100 | | 90 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0756 | | ug/l | 0.100 | | 76 | 70-130 | | | |
| LCS (W5B1002-BS1) | | | | | | | | | | |
| Analyzed: 02/27/15 00:43 | | | | | | | | | | |
| 4,4'-DDD | 0.0912 | 0.010 | ug/l | 0.100 | | 91 | 55-142 | | | |
| 4,4'-DDE | 0.0893 | 0.010 | ug/l | 0.100 | | 89 | 49-129 | | | |
| 4,4'-DDT | 0.0952 | 0.010 | ug/l | 0.100 | | 95 | 54-160 | | | |
| Aldrin | 0.0797 | 0.010 | ug/l | 0.100 | | 80 | 29-115 | | | |
| alpha-BHC | 0.0846 | 0.010 | ug/l | 0.100 | | 85 | 59-131 | | | |
| beta-BHC | 0.0979 | 0.010 | ug/l | 0.100 | | 98 | 63-136 | | | |
| delta-BHC | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-137 | | | |
| Dieldrin | 0.0864 | 0.010 | ug/l | 0.100 | | 86 | 59-135 | | | |
| Endosulfan I | 0.0692 | 0.010 | ug/l | 0.100 | | 69 | 28-138 | | | |
| Endosulfan II | 0.0809 | 0.010 | ug/l | 0.100 | | 81 | 53-133 | | | |
| Endosulfan sulfate | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 58-155 | | | |
| Endrin | 0.0922 | 0.010 | ug/l | 0.100 | | 92 | 57-148 | | | |
| Endrin aldehyde | 0.0835 | 0.010 | ug/l | 0.100 | | 83 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.0873 | 0.010 | ug/l | 0.100 | | 87 | 59-129 | | | |
| Heptachlor | 0.0855 | 0.010 | ug/l | 0.100 | | 86 | 42-136 | | | |
| Heptachlor epoxide | 0.0865 | 0.010 | ug/l | 0.100 | | 87 | 59-134 | | | |
| Methoxychlor | 0.0962 | 0.010 | ug/l | 0.100 | | 96 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0892 | | ug/l | 0.100 | | 89 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0724 | | ug/l | 0.100 | | 72 | 70-130 | | | |
| LCS Dup (W5B1002-BSD1) | | | | | | | | | | |
| Analyzed: 02/27/15 01:13 | | | | | | | | | | |
| 4,4'-DDD | 0.0973 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | 6 | 25 | |
| 4,4'-DDE | 0.0946 | 0.010 | ug/l | 0.100 | | 95 | 49-129 | 6 | 25 | |
| 4,4'-DDT | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 54-160 | 6 | 25 | |
| Aldrin | 0.0871 | 0.010 | ug/l | 0.100 | | 87 | 29-115 | 9 | 25 | |
| alpha-BHC | 0.0926 | 0.010 | ug/l | 0.100 | | 93 | 59-131 | 9 | 25 | |
| beta-BHC | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 63-136 | 5 | 25 | |
| delta-BHC | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 59-137 | 7 | 25 | |
| Dieldrin | 0.0911 | 0.010 | ug/l | 0.100 | | 91 | 59-135 | 5 | 25 | |
| Endosulfan I | 0.0742 | 0.010 | ug/l | 0.100 | | 74 | 28-138 | 7 | 25 | |
| Endosulfan II | 0.0847 | 0.010 | ug/l | 0.100 | | 85 | 53-133 | 5 | 25 | |
| Endosulfan sulfate | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 58-155 | 3 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5B1002 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|---------------|-------|-------------|--------------------------|---------------|-----------|---------------|-----|-----------|-----------------|
| LCS Dup (W5B1002-BSD1) | | | | Analyzed: 02/27/15 01:13 | | | | | | |
| Endrin | 0.0971 | 0.010 | ug/l | 0.100 | | 97 | 57-148 | 5 | 25 | |
| Endrin aldehyde | 0.0908 | 0.010 | ug/l | 0.100 | | 91 | 45-139 | 8 | 25 | |
| gamma-BHC (Lindane) | 0.0954 | 0.010 | ug/l | 0.100 | | 95 | 59-129 | 9 | 25 | |
| Heptachlor | 0.0933 | 0.010 | ug/l | 0.100 | | 93 | 42-136 | 9 | 25 | |
| Heptachlor epoxide | 0.0930 | 0.010 | ug/l | 0.100 | | 93 | 59-134 | 7 | 25 | |
| Methoxychlor | 0.0916 | 0.010 | ug/l | 0.100 | | 92 | 56-167 | 5 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.0895</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>90</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0783</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>78</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/15 09:15
Date Reported: 03/09/15 16:26

Notes and Definitions

| | |
|--------------|--|
| S-GC | Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5B1592

3/04/2015

Invoice: A504544

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5B1592 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/19/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montieth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montieth , at (800) 877-8310 or (559) 497-2888 x201.



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

Client: Monterey Bay Analytical
Report To: David Holland
Project #: -
Received: 2/19/2015 - 11:09
Report Due: 3/05/2015

Invoice To: Monterey Bay Analytical
Invoice Attn: David Holland
Project PO#: -

Sample Receipt Conditions

| | |
|---------------------------------------|---|
| Cooler: Default Cooler | Containers Intact |
| Temperature on Receipt °C: 2.9 | COC/Labels Agree |
| | Preservation Confirmed |
| | Received On Wet Ice |
| | Received On Blue Ice |
| | Packing Material - Other |
| | Sample(s) were received in temperature range. |
| | Initial receipt at BSK-FAL |

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS2.0 Blank spike recovery for this analyte was biased low. Associated result may be biased low; reanalysis not feasible.
- MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5B1592-01
Sampled By: Coral Shaw
Sample Description: MW-5D (monitoring) // AB26966

Sample Date - Time: 02/17/15 - 14:02
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A502026 | 02/24/15 | 02/24/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A502026 | 02/24/15 | 02/24/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 105 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A502167 | 02/25/15 | 02/27/15 | |
| Surrogate: DCPAA | EPA 515.3 | 103 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |

Certificate of Analysis

Sample ID: A5B1592-01
Sampled By: Coral Shaw
Sample Description: MW-5D (monitoring) // AB26966

Sample Date - Time: 02/17/15 - 14:02
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|-----------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Toluene | EPA 524.2 | 1.4 | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A501991 | 02/23/15 | 02/23/15 | |

Certificate of Analysis

Sample ID: A5B1592-01
Sampled By: Coral Shaw
Sample Description: MW-5D (monitoring) // AB26966

Sample Date - Time: 02/17/15 - 14:02
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--|-----------|--------|------|-------|---------|---------|----------|----------|-------|
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 100 % | | | | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 101 % | | | | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Semi-Volatile Organics by GC-MS | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A502051 | 02/23/15 | 02/24/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 107 % | | | | | | | |
| Carbamates by HPLC | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A502103 | 02/24/15 | 02/24/15 | |
| Glyphosate by HPLC | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A501867 | 02/20/15 | 02/20/15 | |
| Surrogate: AMPA | EPA 547 | 101 % | | | | | | | |
| Endothall by GC-MS | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A501985 | 02/20/15 | 02/21/15 | |
| Diquat by HPLC | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A502063 | 02/24/15 | 03/03/15 | BS2.0 |



A5B1592

Cal Am

Certificate of Analysis

Sample ID: A5B1592-01

Sampled By: Coral Shaw

Sample Description: MW-5D (monitoring) // AB26966

Sample Date - Time: 02/17/15 - 14:02

Matrix: Ground Water

Sample Type: Grab

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A502026

Prepared: 02/24/2015

Prep Method: EPA 504.1

Analyst: PYA

Blank (A502026-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 02/24/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 02/24/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.45 | | | 0.46 | | 99 | 70-130 | | | 02/24/15 | |

Blank Spike (A502026-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.14 | 0.010 | ug/L | 0.12 | | 109 | 70-130 | | | 02/24/15 | |
| Ethylene Dibromide (EDB) | 0.12 | 0.020 | ug/L | 0.12 | | 95 | 70-130 | | | 02/24/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 100 | 70-130 | | | 02/24/15 | |

Blank Spike Dup (A502026-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.13 | 0.010 | ug/L | 0.12 | | 103 | 70-130 | 5 | 20 | 02/25/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.12 | | 102 | 70-130 | 7 | 20 | 02/25/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.45 | | | 0.46 | | 99 | 70-130 | | | 02/25/15 | |

Matrix Spike (A502026-MS1), Source: A5B1650-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.13 | 0.010 | ug/L | 0.12 | ND | 107 | 65-135 | | | 02/24/15 | |
| Ethylene Dibromide (EDB) | 0.12 | 0.020 | ug/L | 0.12 | ND | 98 | 65-135 | | | 02/24/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.45 | | | 0.45 | | 99 | 70-130 | | | 02/24/15 | |

EPA 515.3 - Quality Control

Batch: A502167

Prepared: 02/25/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A502167-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 02/27/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 02/27/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 02/27/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 02/27/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 02/27/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 02/27/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 02/27/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 02/27/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 02/27/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 02/27/15 | |

Blank Spike (A502167-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 3.9 | 1.0 | ug/L | 4.0 | | 98 | 70-130 | | | 02/27/15 | |
| 2,4,5-TP (Silvex) | 0.75 | 1.0 | ug/L | 0.80 | | 93 | 70-130 | | | 02/27/15 | |
| 2,4-D | 0.39 | 10 | ug/L | 0.40 | | 99 | 70-130 | | | 02/27/15 | |
| Bentazon | 8.5 | 2.0 | ug/L | 8.0 | | 107 | 70-130 | | | 02/27/15 | |
| Dalapon | 4.1 | 10 | ug/L | 4.0 | | 103 | 70-130 | | | 02/27/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | | 100 | 70-130 | | | 02/27/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | | 102 | 70-130 | | | 02/27/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 97 | 70-130 | | | 02/27/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | | 102 | 70-130 | | | 02/27/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A502167

Prepared: 02/25/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A502167-BS1)

| | | | | | | | | | | | |
|------------------|----|--|--|----|--|-----|--------|--|--|----------|--|
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 02/27/15 | |
|------------------|----|--|--|----|--|-----|--------|--|--|----------|--|

Blank Spike Dup (A502167-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 3.9 | 1.0 | ug/L | 4.0 | | 97 | 70-130 | 1 | 20 | 02/27/15 | |
| 2,4,5-TP (Silvex) | 0.75 | 1.0 | ug/L | 0.80 | | 94 | 70-130 | 0 | 20 | 02/27/15 | |
| 2,4-D | 0.39 | 10 | ug/L | 0.40 | | 96 | 70-130 | 2 | 20 | 02/27/15 | |
| Bentazon | 8.5 | 2.0 | ug/L | 8.0 | | 106 | 70-130 | 0 | 20 | 02/27/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | | 100 | 70-130 | 3 | 20 | 02/27/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | | 99 | 70-130 | 1 | 20 | 02/27/15 | |
| Dinoseb | 0.82 | 2.0 | ug/L | 0.80 | | 103 | 70-130 | 1 | 20 | 02/27/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 97 | 70-130 | 0 | 20 | 02/27/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 101 | 70-130 | 1 | 20 | 02/27/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 02/27/15 | |

Matrix Spike (A502167-MS1), Source: A5B1379-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | ND | 102 | 70-130 | | | 02/27/15 | |
| 2,4,5-TP (Silvex) | 0.77 | 1.0 | ug/L | 0.80 | ND | 97 | 70-130 | | | 02/27/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | ND | 105 | 70-130 | | | 02/27/15 | |
| Bentazon | 8.7 | 2.0 | ug/L | 8.0 | ND | 109 | 70-130 | | | 02/27/15 | |
| Dalapon | 4.5 | 10 | ug/L | 4.0 | ND | 112 | 70-130 | | | 02/27/15 | |
| Dicamba | 6.2 | 1.5 | ug/L | 6.0 | ND | 104 | 70-130 | | | 02/27/15 | |
| Dinoseb | 0.85 | 2.0 | ug/L | 0.80 | ND | 107 | 70-130 | | | 02/27/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 102 | 70-130 | | | 02/27/15 | |
| Picloram | 0.42 | 1.0 | ug/L | 0.40 | ND | 104 | 70-130 | | | 02/27/15 | |
| Surrogate: DCPAA | 62 | | | 58 | | 107 | 70-130 | | | 02/27/15 | |

Matrix Spike Dup (A502167-MSD1), Source: A5B1379-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|----|----|----------|--|
| 2,4,5-T | 4.0 | 1.0 | ug/L | 4.0 | ND | 99 | 70-130 | 3 | 20 | 02/27/15 | |
| 2,4,5-TP (Silvex) | 0.68 | 1.0 | ug/L | 0.80 | ND | 85 | 70-130 | 13 | 20 | 02/27/15 | |
| 2,4-D | 0.40 | 10 | ug/L | 0.40 | ND | 101 | 70-130 | 4 | 20 | 02/27/15 | |
| Bentazon | 8.7 | 2.0 | ug/L | 8.0 | ND | 108 | 70-130 | 1 | 20 | 02/27/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | ND | 109 | 70-130 | 3 | 20 | 02/27/15 | |
| Dicamba | 6.1 | 1.5 | ug/L | 6.0 | ND | 101 | 70-130 | 3 | 20 | 02/27/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | 5 | 20 | 02/27/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 98 | 70-130 | 4 | 20 | 02/27/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | ND | 104 | 70-130 | 0 | 20 | 02/27/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 02/27/15 | |

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A501991-BLK1)

| | | | | | | | | | | | |
|---------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A501991-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 02/23/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 02/23/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 02/23/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 02/23/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 02/23/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 02/23/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A501991-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 02/23/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 02/23/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 02/23/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 02/23/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.3 | | | 5.0 | | 106 | 70-130 | | | 02/23/15 | |
| Surrogate: Bromofluorobenzene | 55 | | | 50 | | 110 | 70-130 | | | 02/23/15 | |

Blank Spike (A501991-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 02/23/15 | |
| 1,1,1-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 02/23/15 | |
| 1,1,2,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 02/23/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | 10 | ug/L | 10 | | 118 | 70-130 | | | 02/23/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 02/23/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 02/23/15 | |
| 1,1-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 02/23/15 | |
| 1,1-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 02/23/15 | |
| 1,2,3-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 02/23/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| 1,2,4-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 02/23/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 02/23/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 02/23/15 | |
| 1,3,5-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 02/23/15 | |
| 1,3-Dichlorobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 02/23/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 02/23/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| 2,2-Dichloropropane | 12 | 0.50 | ug/L | 10 | | 119 | 70-130 | | | 02/23/15 | |
| 2-Butanone | 9.2 | 5.0 | ug/L | 10 | | 92 | 70-130 | | | 02/23/15 | |
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| 2-Hexanone | 9.5 | 10 | ug/L | 10 | | 95 | 70-130 | | | 02/23/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A501991-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|---------|
| 4-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| 4-Methyl-2-pentanone | 11 | 5.0 | ug/L | 10 | | 113 | 70-130 | | | 02/23/15 | |
| Acetone | 9.5 | 10 | ug/L | 10 | | 95 | 70-130 | | | 02/23/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 02/23/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | | | 02/23/15 | |
| Bromodichloromethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 02/23/15 | |
| Bromoform | 13 | 0.50 | ug/L | 10 | | 130 | 70-130 | | | 02/23/15 | |
| Bromomethane | 14 | 0.50 | ug/L | 10 | | 141 | 70-130 | | | 02/23/15 | BS High |
| Carbon Tetrachloride | 12 | 0.50 | ug/L | 10 | | 115 | 70-130 | | | 02/23/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| Chloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| Chloroform | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 02/23/15 | |
| Chloromethane | 7.5 | 0.50 | ug/L | 10 | | 75 | 70-130 | | | 02/23/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 02/23/15 | |
| cis-1,3-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | | | 02/23/15 | |
| Dibromochloromethane | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | | | 02/23/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 02/23/15 | |
| Dichlorodifluoromethane | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 02/23/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 02/23/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 105 | 70-130 | | | 02/23/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 02/23/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| Hexachlorobutadiene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 02/23/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 102 | 70-130 | | | 02/23/15 | |
| Methyl-t-butyl ether | 21 | 0.50 | ug/L | 20 | | 104 | 70-130 | | | 02/23/15 | |
| Naphthalene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 02/23/15 | |
| n-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 02/23/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| p-Isopropyltoluene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 02/23/15 | |
| Styrene | 12 | 0.50 | ug/L | 10 | | 120 | 70-130 | | | 02/23/15 | |
| tert-Amyl Methyl Ether (TAME) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | | | 02/23/15 | |
| tert-Butyl alcohol (TBA) | 9.1 | 2.0 | ug/L | 10 | | 91 | 70-130 | | | 02/23/15 | |
| tert-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 02/23/15 | |
| trans-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 02/23/15 | |
| trans-1,3-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | | | 02/23/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 02/23/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 109 | 70-130 | | | 02/23/15 | |
| Vinyl Chloride | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 02/23/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.0 | | | 5.0 | | 101 | 70-130 | | | 02/23/15 | |

BSK Associates Fresno
Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A501991-BS1)

Surrogate: Bromofluorobenzene 50 50 100 70-130 02/23/15

Blank Spike Dup (A501991-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|---------|
| 1,1,1,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 8 | 30 | 02/23/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 6 | 30 | 02/23/15 | |
| 1,1,2,2-Tetrachloroethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 6 | 30 | 02/23/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 113 | 70-130 | 4 | 30 | 02/23/15 | |
| 1,1,2-Trichloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,1-Dichloropropene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 8 | 30 | 02/23/15 | |
| 1,2,3-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 6 | 30 | 02/23/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,2,4-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,2-Dichlorobenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,2-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 7 | 30 | 02/23/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 02/23/15 | |
| 1,3,5-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 6 | 30 | 02/23/15 | |
| 1,3-Dichlorobenzene | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | 10 | 30 | 02/23/15 | |
| 1,3-Dichloropropane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 6 | 30 | 02/23/15 | |
| 1,4-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 6 | 30 | 02/23/15 | |
| 2,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 9 | 30 | 02/23/15 | |
| 2-Butanone | 8.8 | 5.0 | ug/L | 10 | | 88 | 70-130 | 5 | 30 | 02/23/15 | |
| 2-Chlorotoluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 7 | 30 | 02/23/15 | |
| 2-Hexanone | 8.8 | 10 | ug/L | 10 | | 88 | 70-130 | 8 | 30 | 02/23/15 | |
| 4-Chlorotoluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 6 | 30 | 02/23/15 | |
| 4-Methyl-2-pentanone | 9.2 | 5.0 | ug/L | 10 | | 92 | 70-130 | 20 | 30 | 02/23/15 | |
| Acetone | 8.8 | 10 | ug/L | 10 | | 88 | 70-130 | 8 | 30 | 02/23/15 | |
| Benzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 7 | 30 | 02/23/15 | |
| Bromobenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 8 | 30 | 02/23/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 7 | 30 | 02/23/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 6 | 30 | 02/23/15 | |
| Bromoform | 12 | 0.50 | ug/L | 10 | | 123 | 70-130 | 5 | 30 | 02/23/15 | |
| Bromomethane | 15 | 0.50 | ug/L | 10 | | 145 | 70-130 | 3 | 30 | 02/23/15 | BS High |
| Carbon Tetrachloride | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 7 | 30 | 02/23/15 | |
| Chlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 6 | 30 | 02/23/15 | |
| Chloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 8 | 30 | 02/23/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 6 | 30 | 02/23/15 | |
| Chloromethane | 7.3 | 0.50 | ug/L | 10 | | 73 | 70-130 | 3 | 30 | 02/23/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 7 | 30 | 02/23/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 7 | 30 | 02/23/15 | |
| Dibromochloromethane | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 8 | 30 | 02/23/15 | |
| Dibromomethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 8 | 30 | 02/23/15 | |
| Dichlorodifluoromethane | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | 5 | 30 | 02/23/15 | |
| Dichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 7 | 30 | 02/23/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A501991

Prepared: 02/23/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A501991-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|----|----|----------|--|
| Di-isopropyl ether (DIPE) | 9.6 | 3.0 | ug/L | 10 | | 96 | 70-130 | 9 | 30 | 02/23/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 8 | 30 | 02/23/15 | |
| Ethylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 6 | 30 | 02/23/15 | |
| Hexachlorobutadiene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 6 | 30 | 02/23/15 | |
| Isopropylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 02/23/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 95 | 70-130 | 7 | 30 | 02/23/15 | |
| Methyl-t-butyl ether | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | 8 | 30 | 02/23/15 | |
| Naphthalene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | 6 | 30 | 02/23/15 | |
| n-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 7 | 30 | 02/23/15 | |
| n-Propylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 7 | 30 | 02/23/15 | |
| o-Xylene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 8 | 30 | 02/23/15 | |
| p-Isopropyltoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 6 | 30 | 02/23/15 | |
| sec-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 7 | 30 | 02/23/15 | |
| Styrene | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | 6 | 30 | 02/23/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.4 | 3.0 | ug/L | 10 | | 94 | 70-130 | 7 | 30 | 02/23/15 | |
| tert-Butyl alcohol (TBA) | 7.9 | 2.0 | ug/L | 10 | | 79 | 70-130 | 14 | 30 | 02/23/15 | |
| tert-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 8 | 30 | 02/23/15 | |
| Tetrachloroethene (PCE) | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 7 | 30 | 02/23/15 | |
| Toluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 6 | 30 | 02/23/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 7 | 30 | 02/23/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 8 | 30 | 02/23/15 | |
| Trichloroethene (TCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 6 | 30 | 02/23/15 | |
| Trichlorofluoromethane | 10 | 5.0 | ug/L | 10 | | 102 | 70-130 | 7 | 30 | 02/23/15 | |
| Vinyl Chloride | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 8 | 30 | 02/23/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 101 | 70-130 | | | 02/23/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 101 | 70-130 | | | 02/23/15 | |

EPA 525.2 - Quality Control

Batch: A502051

Prepared: 02/23/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A502051-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 02/24/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 02/24/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 02/24/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 02/24/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 02/24/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 02/24/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 02/24/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 02/24/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 02/24/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 02/24/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 02/24/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A502051

Prepared: 02/23/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A502051-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Propachlor | ND | 0.50 | ug/L | | | | | | | 02/24/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 02/24/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 02/24/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.5 | | | 5.0 | | 110 | 70-130 | | | 02/24/15 | |

Blank Spike (A502051-BS1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 0.87 | 1.0 | ug/L | 1.0 | | 87 | 70-130 | | | 02/24/15 | |
| Atrazine | 0.43 | 0.50 | ug/L | 0.50 | | 87 | 70-130 | | | 02/24/15 | |
| Benzo(a)pyrene | 0.082 | 0.10 | ug/L | 0.10 | | 82 | 70-130 | | | 02/24/15 | |
| Bis(2-ethylhexyl) adipate | 1.8 | 3.0 | ug/L | 2.0 | | 90 | 70-130 | | | 02/24/15 | |
| Bis(2-ethylhexyl) phthalate | 1.4 | 3.0 | ug/L | 1.5 | | 91 | 70-130 | | | 02/24/15 | |
| Bromacil | 0.96 | 10 | ug/L | 1.0 | | 96 | 70-130 | | | 02/24/15 | |
| Butachlor | 0.87 | 0.38 | ug/L | 1.0 | | 87 | 70-130 | | | 02/24/15 | |
| Diazinon | 0.16 | 0.25 | ug/L | 0.20 | | 80 | 70-130 | | | 02/24/15 | |
| Dimethoate | 0.84 | 10 | ug/L | 1.0 | | 84 | 70-130 | | | 02/24/15 | |
| Metolachlor | 1.8 | 0.50 | ug/L | 2.0 | | 91 | 70-130 | | | 02/24/15 | |
| Metribuzin | 0.82 | 0.50 | ug/L | 1.0 | | 82 | 70-130 | | | 02/24/15 | |
| Molinate | 0.91 | 2.0 | ug/L | 1.0 | | 91 | 70-130 | | | 02/24/15 | |
| Prometryn | 1.5 | 2.0 | ug/L | 2.0 | | 76 | 70-130 | | | 02/24/15 | |
| Propachlor | 0.46 | 0.50 | ug/L | 0.50 | | 93 | 70-130 | | | 02/24/15 | |
| Simazine | 0.31 | 1.0 | ug/L | 0.35 | | 88 | 70-130 | | | 02/24/15 | |
| Thiobencarb | 0.44 | 1.0 | ug/L | 0.50 | | 87 | 70-130 | | | 02/24/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 108 | 70-130 | | | 02/24/15 | |

Blank Spike Dup (A502051-BS1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 0.90 | 1.0 | ug/L | 1.0 | | 90 | 70-130 | 3 | 30 | 02/24/15 | |
| Atrazine | 0.47 | 0.50 | ug/L | 0.50 | | 94 | 70-130 | 8 | 30 | 02/24/15 | |
| Benzo(a)pyrene | 0.085 | 0.10 | ug/L | 0.10 | | 85 | 70-130 | 4 | 30 | 02/24/15 | |
| Bis(2-ethylhexyl) adipate | 1.8 | 3.0 | ug/L | 2.0 | | 90 | 70-130 | 1 | 30 | 02/24/15 | |
| Bis(2-ethylhexyl) phthalate | 1.4 | 3.0 | ug/L | 1.5 | | 94 | 70-130 | 3 | 30 | 02/24/15 | |
| Bromacil | 1.0 | 10 | ug/L | 1.0 | | 103 | 70-130 | 7 | 30 | 02/24/15 | |
| Butachlor | 0.90 | 0.38 | ug/L | 1.0 | | 90 | 70-130 | 3 | 30 | 02/24/15 | |
| Diazinon | 0.17 | 0.25 | ug/L | 0.20 | | 83 | 70-130 | 4 | 30 | 02/24/15 | |
| Dimethoate | 0.88 | 10 | ug/L | 1.0 | | 88 | 70-130 | 5 | 30 | 02/24/15 | |
| Metolachlor | 1.9 | 0.50 | ug/L | 2.0 | | 96 | 70-130 | 5 | 30 | 02/24/15 | |
| Metribuzin | 0.93 | 0.50 | ug/L | 1.0 | | 93 | 70-130 | 13 | 30 | 02/24/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 105 | 70-130 | 14 | 30 | 02/24/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 2.0 | | 92 | 70-130 | 19 | 30 | 02/24/15 | |
| Propachlor | 0.50 | 0.50 | ug/L | 0.50 | | 100 | 70-130 | 7 | 30 | 02/24/15 | |
| Simazine | 0.34 | 1.0 | ug/L | 0.35 | | 96 | 70-130 | 9 | 30 | 02/24/15 | |
| Thiobencarb | 0.47 | 1.0 | ug/L | 0.50 | | 95 | 70-130 | 8 | 30 | 02/24/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.8 | | | 5.0 | | 116 | 70-130 | | | 02/24/15 | |

Matrix Spike (A502051-MS1), Source: A5B1296-01

| | | | | | | | | | | | |
|----------|------|-----|------|------|----|----|--------|--|--|----------|--|
| Alachlor | 0.94 | 1.0 | ug/L | 0.97 | ND | 98 | 70-130 | | | 02/24/15 | |
|----------|------|-----|------|------|----|----|--------|--|--|----------|--|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A502051

Prepared: 02/23/2015

Prep Method: EPA 525.2

Analyst: KHH

Matrix Spike (A502051-MS1), Source: A5B1296-01

| | | | | | | | | | | | |
|--|-------|------|------|-------|----|-----|--------|--|--|----------|--|
| Atrazine | 0.47 | 0.50 | ug/L | 0.48 | ND | 98 | 70-130 | | | 02/24/15 | |
| Benzo(a)pyrene | 0.092 | 0.10 | ug/L | 0.097 | ND | 95 | 70-130 | | | 02/24/15 | |
| Bis(2-ethylhexyl) adipate | 2.0 | 3.0 | ug/L | 1.9 | ND | 103 | 70-130 | | | 02/24/15 | |
| Bis(2-ethylhexyl) phthalate | 1.4 | 3.0 | ug/L | 1.4 | ND | 99 | 70-130 | | | 02/24/15 | |
| Bromacil | 1.1 | 10 | ug/L | 0.97 | ND | 114 | 70-130 | | | 02/24/15 | |
| Butachlor | 0.94 | 0.38 | ug/L | 0.97 | ND | 98 | 70-130 | | | 02/24/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.19 | ND | 94 | 70-130 | | | 02/24/15 | |
| Dimethoate | 0.85 | 10 | ug/L | 0.97 | ND | 88 | 70-130 | | | 02/24/15 | |
| Metolachlor | 1.9 | 0.50 | ug/L | 1.9 | ND | 99 | 70-130 | | | 02/24/15 | |
| Metribuzin | 0.92 | 0.50 | ug/L | 0.97 | ND | 95 | 70-130 | | | 02/24/15 | |
| Molinate | 0.95 | 2.0 | ug/L | 0.97 | ND | 98 | 70-130 | | | 02/24/15 | |
| Prometryn | 2.0 | 2.0 | ug/L | 1.9 | ND | 105 | 70-130 | | | 02/24/15 | |
| Propachlor | 0.49 | 0.50 | ug/L | 0.48 | ND | 102 | 70-130 | | | 02/24/15 | |
| Simazine | 0.35 | 1.0 | ug/L | 0.34 | ND | 104 | 70-130 | | | 02/24/15 | |
| Thiobencarb | 0.47 | 1.0 | ug/L | 0.48 | ND | 96 | 70-130 | | | 02/24/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.9 | | | 4.8 | | 101 | 70-130 | | | 02/24/15 | |

EPA 531.1 - Quality Control

Batch: A502103

Prepared: 02/24/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A502103-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 02/24/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 02/24/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 02/24/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 02/24/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 02/24/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 02/24/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 02/24/15 | |

Blank Spike (A502103-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 3.9 | 3.0 | ug/L | 4.0 | | 97 | 80-120 | | | 02/24/15 | |
| Aldicarb | 3.9 | 3.0 | ug/L | 4.0 | | 99 | 80-120 | | | 02/24/15 | |
| Aldicarb Sulfone | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | | | 02/24/15 | |
| Aldicarb Sulfoxide | 4.3 | 3.0 | ug/L | 4.0 | | 107 | 80-120 | | | 02/24/15 | |
| Carbaryl | 3.7 | 5.0 | ug/L | 4.0 | | 94 | 80-120 | | | 02/24/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | | 97 | 80-120 | | | 02/24/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 02/24/15 | |
| Methomyl | 3.4 | 2.0 | ug/L | 4.0 | | 84 | 80-120 | | | 02/24/15 | |
| Oxamyl | 3.5 | 20 | ug/L | 4.0 | | 87 | 80-120 | | | 02/24/15 | |
| Propoxur | 3.8 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | | | 02/24/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A502103

Prepared: 02/24/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike Dup (A502103-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| 3-Hydroxycarbofuran | 3.9 | 3.0 | ug/L | 4.0 | | 98 | 80-120 | 1 | 20 | 02/25/15 | |
| Aldicarb | 3.8 | 3.0 | ug/L | 4.0 | | 94 | 80-120 | 5 | 20 | 02/25/15 | |
| Aldicarb Sulfone | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | 0 | 20 | 02/25/15 | |
| Aldicarb Sulfoxide | 4.3 | 3.0 | ug/L | 4.0 | | 108 | 80-120 | 1 | 20 | 02/25/15 | |
| Carbaryl | 3.9 | 5.0 | ug/L | 4.0 | | 96 | 80-120 | 3 | 20 | 02/25/15 | |
| Carbofuran | 3.8 | 5.0 | ug/L | 4.0 | | 96 | 80-120 | 1 | 20 | 02/25/15 | |
| Methiocarb | 3.9 | 2.0 | ug/L | 4.0 | | 98 | 80-120 | 3 | 20 | 02/25/15 | |
| Methomyl | 3.6 | 2.0 | ug/L | 4.0 | | 90 | 80-120 | 7 | 20 | 02/25/15 | |
| Oxamyl | 3.4 | 20 | ug/L | 4.0 | | 86 | 80-120 | 1 | 20 | 02/25/15 | |
| Propoxur | 3.8 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | 1 | 20 | 02/25/15 | |

Matrix Spike (A502103-MS1), Source: A5B1379-03

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 3.8 | 3.0 | ug/L | 4.0 | ND | 95 | 65-135 | | | 02/24/15 | |
| Aldicarb | 3.9 | 3.0 | ug/L | 4.0 | ND | 97 | 65-135 | | | 02/24/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 02/24/15 | |
| Aldicarb Sulfoxide | 4.4 | 3.0 | ug/L | 4.0 | ND | 110 | 65-135 | | | 02/24/15 | |
| Carbaryl | 3.9 | 5.0 | ug/L | 4.0 | ND | 96 | 65-135 | | | 02/24/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | ND | 97 | 65-135 | | | 02/24/15 | |
| Methiocarb | 3.8 | 2.0 | ug/L | 4.0 | ND | 96 | 65-135 | | | 02/24/15 | |
| Methomyl | 3.5 | 2.0 | ug/L | 4.0 | ND | 87 | 65-135 | | | 02/24/15 | |
| Oxamyl | 3.5 | 20 | ug/L | 4.0 | ND | 88 | 65-135 | | | 02/24/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 02/24/15 | |

EPA 547 - Quality Control

Batch: A501867

Prepared: 02/20/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A501867-BLK1)

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|--|----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 02/20/15 | |
| Surrogate: AMPA | 97 | | | 100 | | 97 | 70-130 | | | 02/20/15 | |

Blank Spike (A501867-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 95 | 25 | ug/L | 100 | | 95 | 70-130 | | | 02/20/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 111 | 70-130 | | | 02/20/15 | |

Blank Spike Dup (A501867-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 110 | 25 | ug/L | 100 | | 114 | 70-130 | 18 | 30 | 02/20/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 113 | 70-130 | | | 02/20/15 | |

Matrix Spike (A501867-MS1), Source: A5B1215-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|------------|
| Glyphosate | 150 | 25 | ug/L | 100 | ND | 146 | 70-130 | | | 02/20/15 | MS1.0 High |
| Surrogate: AMPA | 110 | | | 100 | | 113 | 70-130 | | | 02/20/15 | |

Matrix Spike Dup (A501867-MSD1), Source: A5B1215-01

| | | | | | | | | | | | |
|------------|-----|----|------|-----|----|-----|--------|----|----|----------|------------|
| Glyphosate | 130 | 25 | ug/L | 100 | ND | 132 | 70-130 | 10 | 30 | 02/20/15 | MS1.0 High |
|------------|-----|----|------|-----|----|-----|--------|----|----|----------|------------|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 547 - Quality Control

Batch: A501867

Prepared: 02/20/2015

Prep Method: EPA 547

Analyst: WPR

Matrix Spike Dup (A501867-MSD1), Source: A5B1215-01

Surrogate: AMPA 110 100 104 70-130 02/20/15

EPA 548.1 - Quality Control

Batch: A501985

Prepared: 02/20/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank (A501985-BLK1)

Endothall ND 45 ug/L 02/21/15

Blank Spike (A501985-BS1)

Endothall 16 45 ug/L 20 81 54-105 02/21/15

Blank Spike Dup (A501985-BSD1)

Endothall 17 45 ug/L 20 87 54-105 8 46 02/21/15

Matrix Spike (A501985-MS1), Source: A5B1500-01

Endothall 4.4 45 ug/L 20 ND 22 54-105 02/21/15 MS1.0 **Low**

EPA 549.2 - Quality Control

Batch: A502063

Prepared: 02/24/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A502063-BLK1)

Diquat ND 4.0 ug/L 03/03/15

Blank Spike (A502063-BS1)

Diquat 0.38 4.0 ug/L 4.0 10 70-130 03/03/15 BS **Low**

Blank Spike Dup (A502063-BSD1)

Diquat 0.42 4.0 ug/L 4.0 10 70-130 9 30 03/03/15 BS **Low**

Matrix Spike (A502063-MS1), Source: A5B1592-01

Diquat 0.40 4.0 ug/L 4.0 ND 10 70-130 03/03/15 MS1.0 **Low**

Matrix Spike Dup (A502063-MSD1), Source: A5B1592-01

Diquat 0.45 4.0 ug/L 4.0 ND 11 70-130 11 30 03/03/15 MS1.0 **Low**

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-14 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|---------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-13 |
|-------------------------|----------|---------------------|---------|



A5B1592



02192015



Monte6227

Turnaround: Standard

Due Date: 3/5/2015



Monterey Bay Analytical



A5B1592
Monte6227

02/19/2015
10



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | <u>Yes</u> No NA | Were correct containers and preservatives received for the tests requested? | <u>Yes</u> No NA | | | | | | |
|---|--|------------------|---|------------------|--------------|--------------------|--|--|--|--|
| | If samples were taken today, is there evidence that chilling has begun? | Yes No <u>NA</u> | Were there bubbles in the VOA vials? (Volatiles Only) | Yes <u>No</u> NA | | | | | | |
| | Did all bottles arrive unbroken and intact? | <u>Yes</u> No | Was a sufficient amount of sample received? | <u>Yes</u> No | | | | | | |
| | Did all bottle labels agree with COC? | <u>Yes</u> No | Do samples have a hold time <72 hours? | Yes <u>No</u> | | | | | | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | Yes No <u>NA</u> | Was PM notified of discrepancies? PM: _____ By/Time: _____ | Yes No <u>NA</u> | | | | | | |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | 1 | | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | | | |
| | None (P) ^{White Cap} | — | — | | | | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | pH > 8 | Y | N | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y | N | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y | N | | | | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | | | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | | | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | | | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y | N | | | | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | 2C | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | 1C | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | | 2A,4V | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | <u>Y</u> | N | 1V | | | | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | | | | |
| | HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | — | — | | 3V | | | | | |
| | Buffer pH 4 (CG) | — | — | | | | | | | |
| | None (CG) | — | — | | | | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | | | |
| | Other: | | | | | | | | | |
| | Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | | |
| | Low Level Hg / Metals Double Baggie | — | — | | | | | | | |
| | Bottled Water | — | — | | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | | | | |
| | S P | | | S P | | | | | | |
| Comments | S P | | | S P | | | | | | |
| | | | | | | | | | | |

2/19/15
mmw

Labeled by: mmw @ 12:11

Labels checked by: [Signature]

RUSH Paged by: _____

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|--|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | | |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | |
|------------|-----------------------------|---|----------|-------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size |
| 26966 | | MW-5D (monitoring) | 2-17-15 | 14:02 | 2.1 | | | | | | 27 | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

Field Parameters:

Temp: 21.3 °C

pH: 7.00

Sp Cond: 3961 µs/cm

Turb: 0.71 NTU

| | Printed Name | Signature | Date | Time | Comment |
|------------------|-------------------------|-----------|---------|-------|--|
| Sampled by: | Coral Shaw / Geoscience | | 2-17-15 | 14:02 | Is sample for regulatory purposes? Yes / No |
| Relinquished by: | Coral Shaw / Geoscience | | 2-17-15 | | |
| Received by: | MBAS | | 2/17/15 | 1556 | 2 mL 1% HNO3 to each 125 mL for metals |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L 6PII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| <i>Volatile Organic Compounds</i> | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| <i>EPA Organic Methods</i> | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

26966

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA <2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
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| | | | |

Comments

500 mL vacuum filtered for diss. TKN + H_2SO_4 + $\text{Na}_2\text{S}_2\text{O}_3$
 250 mL " for diss. total phosphorus + H_2SO_4
 250 mL " for diss. ortho phosphate
 (pre-rinsed 0.45 μ membrane filter) LJ 2/17/15



California American Water
P.O. Box 951, Monterey, CA 93942-0951
ph: 831-646-3259 / 831-646-3269
Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB28822

Collection Date/Time: 4/5/2015 8:20 Sample Collector: KHALIGHI A
Submittal Date/Time: 4/6/2015 9:21 Sample ID

Sample Description: MW-6S

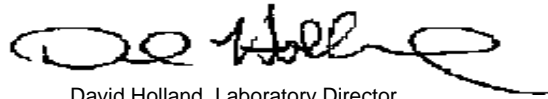
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|--------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 366 | | 2 | 4/14/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 4/13/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | 0.45 | | 0.05 | 4/8/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 16 | | 1 | 4/13/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 105 | | 10 | 4/13/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 447 | | 10 | 4/14/2015 | LRH |
| Boron, Dissolved | EPA200.7 | mg/L | Not Detected | | 0.5 | 4/10/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 0.2 | | 0.1 | 4/6/2015 | MW |
| Calcium | EPA200.7 | mg/L | 93 | | 0.5 | 4/10/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 92 | | 5 | 4/24/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 4/9/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 4/14/2015 | LRH |
| Chloride, Dissolved | EPA300.0 | mg/L | 57 | | 1 | 4/6/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Attached | E | | 4/15/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 20 | H | 6 | 4/7/2015 | LRH |
| Copper, Total | EPA200.8 | µg/L | Not Detected | | 4 | 4/13/2015 | SM |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 4/15/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 4/10/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 4/12/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.2 | | 0.1 | 4/6/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 393 | | 10 | 4/13/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 4/14/2015 | LRH |
| Iodide | EPA9056M | µg/L | 35 | E | 10 | 4/10/2015 | WECK |
| Iron | EPA200.7 | µg/L | 315 | | 10 | 4/10/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|------------------------------------|---------------|----------|---------------------|---|------|-----------|-----|
| Iron, Dissolved | EPA200.7 | µg/L | 351 | | 100 | 4/10/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | 1.0 | | 0.5 | 4/14/2015 | TC |
| Lithium | EPA200.8 | µg/L | 6 | | 1 | 4/13/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 39 | | 0.5 | 4/10/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 37 | | 5 | 4/24/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 2090 | | 100 | 4/10/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 1880 | | 10 | 4/10/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | H | 0.05 | 4/7/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | Not Detected | | 1 | 4/6/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 0.5 | | 0.1 | 4/6/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.5 | | 0.1 | 4/6/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 2 | H | 1 | 4/7/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 1.55 | | 0.15 | 4/6/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.07 | | | 4/5/2015 | AK |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.1 | | 0.1 | 4/6/2015 | LRH |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | | 4/11/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 1.38 | | 0.03 | 4/13/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 7.6 | | 0.5 | 4/10/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 7.2 | | 5 | 4/24/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.61 | | | 4/9/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 34 | | 5 | 4/10/2015 | MW |
| Sodium | EPA200.7 | mg/L | 79 | | 5 | 4/24/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 79 | | 5 | 4/24/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 989 | | 1 | 4/8/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 869 | | 1 | 4/5/2015 | AK |
| Strontium, Dissolved | EPA200.8 | µg/L | 561 | | 2.5 | 4/13/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 87 | | 1 | 4/6/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 3.0 | | | 4/6/2015 | AK |
| Total Diss. Solids | SM2540C | mg/L | 608 | | 10 | 4/7/2015 | HM |
| Turbidity | EPA180.1 | NTU | 2.6 | H | 0.05 | 4/7/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.62 | | 0.05 | 4/5/2015 | AK |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Zinc, Total | EPA200.8 | µg/L | Not Detected | | 20 | 4/13/2015 | SM |

Sample Comments: Odor:Earthy

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL

H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28822 Total Ions**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 79 | 0.04350 | 3.44 |
| Potassium | 7.6 | 0.02558 | 0.19 |
| Calcium | 93 | 0.04990 | 4.64 |
| Magnesium | 39 | 0.08229 | 3.21 |
| NH3-N | 0.45 | 0.07143 | 0.03 |
| | | SUM | 11.51 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 366 | 0.02000 | 7.32 |
| Sulfate | 87 | 0.02082 | 1.81 |
| Chloride | 57 | 0.02821 | 1.61 |
| Nitrate-Nitrogen | 0 | 0.07138 | 0.00 |
| Phosphate-P | 1.50 | 0.01031 | 0.02 |
| Bromide | 0.2 | 0.01252 | 0.00 |
| | | SUM | 10.76 |

ANION-CATION BALANCE **3** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 989 | |
| Cation Sum X 100 | 1151 | 116% |
| Anion Sum X 100 | 1076 | 109% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28822 Dissolved Ions**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 79 | 0.04350 | 3.44 |
| Potassium | 7.2 | 0.02558 | 0.18 |
| Calcium | 92 | 0.04990 | 4.59 |
| Magnesium | 37 | 0.08229 | 3.04 |
| NH3-N | 0.45 | 0.07143 | 0.03 |
| | | SUM | 11.29 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 366 | 0.02000 | 7.32 |
| Sulfate | 87 | 0.02082 | 1.81 |
| Chloride | 57 | 0.02821 | 1.61 |
| Nitrate-Nitrogen | 0 | 0.07138 | 0.00 |
| Phosphate-P | 1.50 | 0.01031 | 0.02 |
| Bromide | 0.2 | 0.01252 | 0.00 |
| | | SUM | 10.76 |

ANION-CATION BALANCE **2** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 989 | |
| Cation Sum X 100 | 1129 | 114% |
| Anion Sum X 100 | 1076 | 109% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 4/14/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|--------------|---------------|-------|-----------------------|-------|
| ICV | 40 | 41 | 103 | 95-105 | 9:49 |
| CCV | 40 | 40 | 100 | 95-105 | 11:27 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB28840 | 41 | 40 | 2.5 | 5 | 9:49 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 4/7/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.011 | --- | <0.05 | 913 |
| ICVL | 0.050 | 0.046 | 92 | 80-120 | 915 |
| ICV | 0.250 | 0.286 | 114.4 | 80-120 | 1011 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28815 | 0.035 | 0.250 | 0.268 | 0.27 | 93.2 | 94 | 0.7 | 80/120 | 10 | 932 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB28938

Date Analyzed
Monday, April 13, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|-------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 105.8 | 0.10 | 119.3 | 124.2 | 4.03 | 21.8 | 50 | 91.2 | 98.4 | 7.6 | 102.4 | 107.8 | 5.12 | 0.04 |
| Aluminum | 0.0 | 95.8 | 1.68 | 107.2 | 110.9 | 3.39 | 4.4 | 50 | 84.5 | 89.4 | 5.6 | 102.1 | 96.6 | 5.53 | -0.08 |
| Copper | 0.0 | 101.4 | 0.13 | 105.7 | 110.8 | 4.73 | 33.7 | 50 | 84.1 | 91.3 | 8.2 | 101.7 | 102.1 | 0.39 | 0.11 |
| Zinc | 0.1 | 106.7 | 1.24 | 113.5 | 120.1 | 5.65 | 71.7 | 50 | 85.4 | 95.3 | 11.0 | 101.5 | 106.2 | 4.50 | 0.29 |
| Arsenic | 0.1 | 100.0 | -0.04 | 100.9 | 107.2 | 6.10 | 4.7 | 50 | 99.1 | 105.1 | 5.9 | 100.7 | 102.5 | 1.73 | 0.05 |
| Strontium | 0.0 | 101.8 | 0.01 | 106.8 | 110.7 | 3.51 | 783.0 | 50 | -8.1 | 73.3 | 249.7 | 102.7 | 104.6 | 1.86 | 0.09 |
| Barium | 0.0 | 99.7 | 0.02 | 102.9 | 107.8 | 4.65 | 289.7 | 50 | 55.6 | 78.1 | 33.7 | 100.8 | 98.6 | 2.19 | 0.07 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 4/8/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.043 | 86.00% | 50-150 | 1100 |
| ICV | 0.500 | 0.450 | 90.00% | 90-110 | 1100 |
| CCVB1 | --- | 0.01 | --- | <0.05 | 1130 |
| CCV1 | 0.500 | 0.530 | 106.00% | 90-110 | 1130 |
| CCVB2 | --- | 0.02 | --- | <0.05 | 1130 |
| CCV2 | 0.500 | 0.550 | 110.00% | 90-110 | 1130 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28829 | 0.000 | 0.500 | 0.460 | 0.460 | 92 | 92 | 0.0 | 85-120 | 10 | 1100 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 4/6/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 15:31 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 15:31 |
| ICV | 0.10 | 0.09 | 90 | 90-110 | 15:31 |
| QCS | 0.10 | 0.10 | 100 | 80-120 | 15:31 |
| CCV | 0.10 | 0.10 | 100 | 80-120 | 15:31 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB28815 | 0.32 | 0.10 | 0.48 | 0.40 | 160 | 80 | 18 | 70-130 | 10 | 15:31 | 15:31 |

Note: MS was over the acceptance criteria. Data was accepted due recovery percents of LCSL, QCS, ICV and CCV.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Phosphorus QC Summary (Hach 8190)

Date: 4/13/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 14:06 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 14:06 |
| ICV | 1.00 | 0.97 | 97 | 90-110 | 14:06 |
| QCS | 1.00 | 0.96 | 96 | 80-120 | 14:06 |
| CCV | 1.00 | 0.98 | 98 | 80-120 | 14:06 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB29146 | 0.09 | 1.00 | 0.80 | 0.77 | 71 | 68 | 3.8 | 70-130 | 10 | 14:06 | 14:06 |

Note: MSD was lower than the acceptance criteria. Data was accepted due LCSL, ICV, QCS, CCV and MS recovery percents.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCSL = Laboratory Control Standard Low; QCS = Quality Control Standard;

ICV= Initial Calibration Verification, CCV= Continuing Calibration Verification, RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 4/7/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 0 | --- | <10 | 1410 |
| ICVL | 100 | 94 | 94 | 80-120 | 1410 |
| ICV | 500 | 503 | 100.6 | 90-110 | 1410 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB28970 | 768 | 751 | 2.2 | 10 | 1520 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 4/14/2015

Time: 1600

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.050 | --- | <0.5 |
| LCS | 5.0 | 4.9 | 98 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB28806 | ND | 5.0 | 5.6 | 5.4 | 112 | 108 | 3.6 | 85-120 | 10 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150410

| Analyte/ WL | Range | IC Blank | Prep Blank | LCS Value | %Rec 85-115% | LCSD Value | %Rec 85-115% | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------------|---------------|--------------|-----------------|---------------|-----------------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | | | | | | | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.01 | 1.10 | 110.2% | 1.10 | 110.1% | 0.1% | 1 | 1.04 | 103.9% | 1 | 1.0 | 103.7% |
| B 249.772 | 0.05-5ppm | 0.00 | 0.00 | 1.09 | 109.5% | 1.09 | 109.1% | 0.3% | 1 | 1.04 | 104.2% | 1 | 1.0 | 103.8% |
| Fe 238.204 | 10ppb-100ppm | 1.35 | 1.67 | 1008 | 100.8% | 1006 | 100.6% | 0.2% | 1000 | 996 | 99.6% | 1000 | 982.1 | 98.2% |
| Fe 259.940 | 10ppb-100ppm | 2.08 | -0.68 | 1018 | 101.8% | 1017 | 101.7% | 0.1% | 1000 | 1003 | 100.3% | 1000 | 995.8 | 99.6% |
| K 766.491 | 0.5-750ppm | -0.10 | -0.11 | 10.8 | 108.0% | 10.8 | 108.3% | 0.2% | 10 | 10.6 | 105.6% | 10 | 10.2 | 102.2% |
| Mn 257.610 | 10ppb-11ppm | -0.93 | -1.34 | 1031 | 103.1% | 1029 | 102.9% | 0.2% | 1000 | 1002 | 100.2% | 1000 | 994.1 | 99.4% |
| Mn 260.568 | 10ppb-11ppm | -1.90 | -1.74 | 1032 | 103.2% | 1040 | 104.0% | 0.8% | 1000 | 1008 | 100.8% | 1000 | 994.0 | 99.4% |
| Si 251.611 | 0.5-200ppm | -0.01 | -0.09 | 52.2 | 104.4% | 51.9 | 103.9% | 0.5% | 50 | 49.9 | 99.9% | 50 | 50.5 | 101.0% |
| Si 252.411 | 0.5-200ppm | -0.02 | -0.01 | 52.0 | 104.1% | 51.9 | 103.9% | 0.2% | 50 | 49.8 | 99.6% | 50 | 50.4 | 100.7% |

Sample ID AB28818

| Analyte/ WL | Sample Value | MS Value | %Rec 70-130% | MSD Value | %Rec 70-130% | %Diff | CCV (90-110%) | | | %Diff 10% | CC Blank |
|----------------|-----------------|-------------|-----------------|--------------|-----------------|-------|---------------|--------|--------|--------------|-------------|
| | | | | | | | Value | Result | %Rec | | |
| B 249.678 | 2.25 | 3.26 | 100.9% | 3.24 | 98.1% | 0.9% | 1 | 1.10 | 109.7% | 5.4% | 0.01 |
| B 249.772 | 2.28 | 3.29 | 100.7% | 3.28 | 99.6% | 0.3% | 1 | 1.12 | 111.9% | 7.2% | 0.01 |
| Fe 238.204 | 12 | 1046 | 103.4% | 1035 | 102.3% | 1.1% | 1000 | 1069 | 106.9% | 7.0% | 1.56 |
| Fe 259.940 | 10 | 1064 | 105.3% | 1063 | 105.3% | 0.0% | 1000 | 1077 | 107.7% | 7.1% | 3.04 |
| K 766.491 | 2.8 | 14.0 | 111.8% | 13.6 | 108.4% | 2.4% | 10 | 11.3 | 112.6% | 6.4% | -0.13 |
| Mn 257.610 | 36 | 1087 | 105.1% | 1079 | 104.4% | 0.7% | 1000 | 1078 | 107.8% | 7.2% | -0.53 |
| Mn 260.568 | 37 | 1094 | 105.7% | 1088 | 105.1% | 0.5% | 1000 | 1088 | 108.8% | 7.6% | -0.75 |
| Si 251.611 | 17.4 | 69.7 | 104.7% | 69.3 | 103.8% | 0.6% | 50 | 53.7 | 107.4% | 7.3% | -0.01 |
| Si 252.411 | 17.2 | 69.1 | 103.7% | 68.5 | 102.6% | 0.8% | 50 | 53.1 | 106.2% | 6.4% | 0.07 |

Batch # 201500424

| Analyte/ WL | Range | IC Blank | Prep Blank | LCS Value | %Rec 85-115% | LCSD Value | %Rec 85-115% | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|------------|-------------|---------------|--------------|-----------------|---------------|-----------------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | | | | | | | | Value | Result | %Rec | Value | Result | %Rec |
| Ca 317.933 | 50-300ppm | -4.60 | -4.59 | 48.3 | 96.6% | 49.0 | 98.1% | 1.6% | 50 | 48.8 | 97.5% | 50 | 46.7 | 93.3% |
| Ca 396.847 | 0.5-50ppm | -0.30 | -0.29 | 49.1 | 98.1% | 50.2 | 100.4% | 2.3% | 50 | 49.5 | 99.0% | 50 | 48.3 | 96.5% |
| K 766.491 | 0.5-750ppm | 0.10 | 0.08 | 9.8 | 98.0% | 10.0 | 99.6% | 1.6% | 10 | 9.9 | 99.1% | 10 | 9.5 | 94.9% |
| Mg 202.582 | 50-1000ppm | -1.48 | -1.42 | 49.3 | 98.7% | 51.0 | 102.0% | 3.3% | 50 | 50.2 | 100.5% | 50 | 49.0 | 98.1% |
| Mg 279.078 | 0.5-50ppm | -0.05 | -0.10 | 48.7 | 97.3% | 49.7 | 99.4% | 2.1% | 50 | 49.4 | 98.8% | 50 | 47.5 | 95.0% |
| Na 568.821 | 50-1000ppm | 10.90 | 10.62 | 53.9 | 107.7% | 53.1 | 106.2% | 1.4% | 50 | 53.0 | 106.1% | 50 | 53.7 | 107.4% |
| Na 589.592 | 0.5-50ppm | 0.02 | 0.04 | 49.8 | 99.6% | 50.7 | 101.3% | 1.7% | 50 | 50.2 | 100.4% | 50 | 48.8 | 97.6% |

Sample ID AB29364

| Analyte/ WL | Sample Value | MS Value | %Rec 70-130% | MSD Value | %Rec 70-130% | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------------|-----------------|--------------|-----------------|-------|---------------|--------|--------|-------|-------|
| | | | | | | | Value | Result | %Rec | 10% | Blank |
| Ca 317.933 | 42.4 | 89.8 | 94.8% | 90.8 | 96.7% | 1.1% | 50 | 48.4 | 96.7% | 0.8% | -4.56 |
| Ca 396.847 | 43.3 | 83.1 | 79.5% | 84.8 | 82.8% | 2.0% | 50 | 48.5 | 97.0% | 2.0% | -0.27 |
| K 766.491 | 2.2 | 11.4 | 91.6% | 11.6 | 93.9% | 2.0% | 10 | 9.7 | 96.9% | 2.3% | 0.09 |
| Mg 202.582 | 25.5 | 72.6 | 94.2% | 74.4 | 97.9% | 2.5% | 50 | 50.6 | 101.2% | 0.7% | -1.45 |
| Mg 279.078 | 24.8 | 69.7 | 89.9% | 71.0 | 92.3% | 1.7% | 50 | 48.9 | 97.8% | 1.0% | -0.04 |
| Na 568.821 | 102.7 | 148.3 | 91.1% | 149.5 | 93.7% | 0.9% | 50 | 54.2 | 108.4% | 2.2% | 10.33 |
| Na 589.592 | 96.7 | 139.6 | 85.7% | 142.5 | 91.5% | 2.1% | 50 | 49.5 | 99.0% | 1.4% | 0.02 |



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pH QC Summary (SM 4500 H+)

Date Analyzed: 4/6/2015
Time Analyzed: 17:30

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|-------|
| ICV | 6.86 | 6.7 | 98 | 95-105 | 17:30 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|-------|
| AB28840 | 8.6 | 8.6 | 0 | 10 | 17:30 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 4/8/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1411 | 99.9% | 95-105 | 1315 |
| ICV | 24800 | 24820 | 100.1% | 95-105 | 1445 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB28824 | 569 | 570 | 0.2% | 10 | 1330 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 4/7/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|-------|
| ICVB | --- | <0.05 | --- | <0.05 | 11:28 |
| ICV | 1.00 | 1.03 | 103.0% | 95-105 | 11:28 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|-------|
| AB28936 | Not Detected | Not Detected | 0.00% | 10 | 11:28 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

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300.0 QC Report

All units expressed in mg/L

Batch ID:

20150406

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| ICV | 2.00 | 19.63 | 2.03 | 19.82 | 1.84 | 1.88 |
| Rec 90-110% | 99.91 | 98.17 | 101.58 | 99.08 | 91.77 | 93.95 |
| ICVL | 0.17 | 1.42 | 0.18 | 1.21 | 0.21 | 0.20 |
| Rec 50-150% | 87.09 | 70.88 | 87.58 | 60.39 | 104.19 | 98.28 |
| Sample ID AB28840 | 0.79 | 8.01 | 0.10 | 9.77 | 0.24 | 0.07 |
| MS | 2.55 | 26.43 | 1.94 | 27.72 | 2.02 | 1.79 |
| Rec 80-120% | 88.18 | 92.10 | 92.41 | 89.76 | 88.83 | 85.98 |
| MSD | 2.46 | 26.40 | 1.94 | 27.64 | 1.99 | 1.79 |
| Rec 80-120% | 83.59 | 91.95 | 92.09 | 89.35 | 87.54 | 85.94 |
| Diff 10% | 3.66 | 0.11 | 0.33 | 0.30 | 1.30 | 0.05 |
| CCV | 1.94 | 19.68 | 2.03 | 19.89 | 1.82 | 1.88 |
| Rec 90-110% | 97.02 | 98.41 | 101.31 | 99.47 | 90.82 | 94.11 |
| Diff 10% | 2.94 | 0.24 | 0.26 | 0.39 | 1.04 | 0.17 |
| CCVB | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

April 13, 2015

Ceres ID: 10634

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on April 8, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

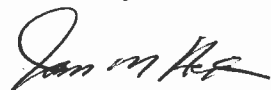
This work was authorized under M.B.A.'s Project # AB28822.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10634-001 | MW-6S (monitoring) | 4/8/2015 | 4/5/2015 8:20 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB28822 | | Sample Size: | 1.000 L | QC Batch #: | 1310 | Date Extracted: | 9-Apr-15 |
| | | | | | ZB-5 MS Analysis Date: | 10-Apr-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.10 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 97.8 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 94.4 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|-----------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB28822 | | Sample Size: | 1.000 L | QC Batch #: | 1310 | Date Extracted: | 9-Apr-15 |
| | | | | | ZB-5 MS Analysis Date: | 10-Apr-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 10.3 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 104 | 25-141 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 10.0 | 3.7-15.8 | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: MW-6S (monitoring) | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10634-001 | | Date Received: 8-Apr-15 | |
| Project: AB28822 | | | Sample Size: 0.993 L | | QC Batch #: 1310 | | Date Extracted: 9-Apr-15 | |
| Date Collected: 5-Apr-15 | | | | | ZB-5 MS Analysis Date: 10-Apr-15 | | | |
| Time Collected: 8:20 | | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.28 | | | IS ¹³ C-2,3,7,8-TCDD | 88.1 | 31 - 137 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 95.5 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: 10634
 Temperature: 2.8 °C

Reports and invoices will be delivered by email in .pdf format

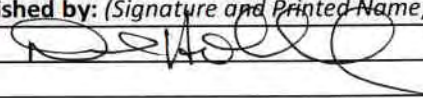
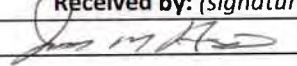
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|---|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF | Comments |
|----|--------------------|-------------------|------|------|----|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|----------|
| | | Date | Time | | | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other | |
| 1 | MW-6S (monitoring) | 4/5/2015 | 820 | 0:00 | Aq | 2 | X | | | | | | | AB28822 | |
| 2 | | | | | | | | | | | | | | (2,3,7,8 TCDD only) | |
| 3 | | | | | | | | | | | | | | Please include excel report | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|---|--------|-------|
| D. Holland  | 4/7/2015 | 16:00 |  Hedin | 4/8/15 | 11:38 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|---|--|
| Ceres ID: <u>10634</u> | Date/Time: <u>4/8/15 10:38</u> |
| Client Project ID: <u>AB 28822</u> | Received Temperature: <u>2.6°C</u> Acceptable: <input checked="" type="radio"/> Y <input type="radio"/> N |
| Chain of Custody Relinquished by signed? | <input checked="" type="radio"/> Y / <input type="radio"/> N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <input checked="" type="radio"/> NA |
| Unlabeled / Illegible Samples | Y / <input checked="" type="radio"/> N |
| Proper Containers: | <input checked="" type="radio"/> Y / <input type="radio"/> N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <input checked="" type="radio"/> Y / <input type="radio"/> N |
| Drinking Water, Sodium Thiosulfate present? | Y / N / <input checked="" type="radio"/> NA |
| List COC discrepancies: | |
| <div style="border: 1px solid black; width: 80%; margin: auto; padding: 10px;"> <p style="font-size: 2em; color: gray; text-align: center;">2/4/8/15</p> </div> | |
| List Damaged Samples: | |
| <div style="border: 1px solid black; width: 80%; margin: auto; padding: 10px;"> <p style="font-size: 2em; color: gray; text-align: center;">2/4/8/15</p> </div> | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10634 PB: 1310 Sample #s: 1 Due Date: 4/22/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

- 1 Calibrate balance
- 2 Tare balance
- 3 Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt
- 4 Weigh empty bottle and cap. Record as Bottle Wt.
- 5 Calculate sample Volume (assuming 1g = 1ml) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10634-1 | 1509.24g | 516.07g | 0.9932 |
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Chemist: J Date: 4/9/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|-------------------|-------------------|----|-------------------|----|-------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1310-MB001 | Method Blank | | 1.0002 | J 4/9/15 M | J 4/10/15 M | NA | J 4/10/15 | NA | J 4/10/15 M |
| 0-1310-OPR001 | OPR | | 1.0002 | (A) ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10634-1310-001 | MW-6S (monitoring) | ✓ | 0.993L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 15:00 4/9/15
 Soxhlet Stop: 07:25 4/10/15

Samples Logged out by: J 10:15 4/9/15
 Samples Returned by: NA
 Note samples Depleted: 1A

Sample Extracts Storage Location: Box 15
 Extracts to Instrument: 11:00 4/10/15 J
 Extracts returned to Storage Location: _____

Chemist: J

Method: 1613 B / 8290 A
 SOP #: 301.1 / 302.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 10.2 | |
| NSS | B | 1 | |
| CSS | C | 1 | |
| RSS | D | 20.2 | |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|--------------------|----------|-----------|
| Toluene | 450 ml | 143616 | 2/5/16 |
| Hexanes | 20, 50, 100, 20 ml | 145782 | 2/5/16 |
| Si-gel | 4g | P031615A | 9/16/15 |
| Basic Gel | 4g | P021915A | 8/19/15 |
| Acid Gel | 8g | P021915B | 8/19/15 |
| Acid Al | 6g | P122314A | 6/23/15 |
| Na ₂ SO ₄ | 1.5g | P101614A | 4/16/15 |
| 20% Dcm:Hex | 20 ml | L040115A | 10/1/15 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 04/24/15 08:08 |
| Attention: David Holland | Received Date: 04/08/15 09:05 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5D08010 | |

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

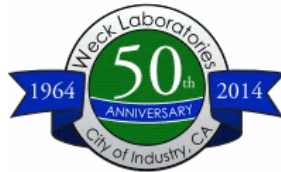
Dear David Holland :

Enclosed are the results of analyses for samples received 04/08/15 09:05 with the Chain of Custody document. The samples were received in good condition, at 1.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|-----------------------------|--------------|------------|--------|----------------|
| MW-6S(Monitoring) (AB28822) | Azad Khaligh | 5D08010-01 | Water | 04/05/15 08:20 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

5D08010-01 MW-6S(Monitoring)

Sampled: 04/05/15 08:20

Sampled By: Azad Khaligh

Matrix: Water

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5D0594

Prepared: 04/10/15 11:00

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | 35 | 10 | ug/l | 1 | 04/10/15 12:07 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5D0533

Prepared: 04/10/15 08:18

Analyst: Maxwell Wang

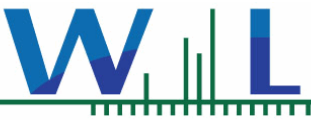
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 04/15/15 02:39 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 04/15/15 02:39 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Endrin | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 04/15/15 02:39 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 04/15/15 02:39 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 04/15/15 02:39 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 04/15/15 02:39 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 04/15/15 02:39 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 04/15/15 02:39 | |
| Surr: Decachlorobiphenyl | 103 % | Conc:0.103 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 73 % | Conc:0.0726 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

Anions by IC, EPA Method 9056 - Quality Control

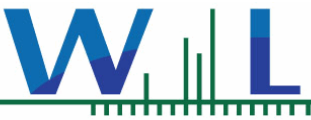
Batch W5D0594 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5D0594-BLK1) | | | | Analyzed: 04/10/15 13:38 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5D0594-BS1) | | | | Analyzed: 04/10/15 11:51 | | | | | | |
| Iodide | 39.6 | 10 | ug/l | 40.0 | | 99 | 85-115 | | | |
| Matrix Spike (W5D0594-MS1) | | | | Source: 5D08010-01 | | Analyzed: 04/10/15 13:08 | | | | |
| Iodide | 70.8 | 10 | ug/l | 40.0 | 35.5 | 88 | 80-120 | | | |
| Matrix Spike Dup (W5D0594-MSD1) | | | | Source: 5D08010-01 | | Analyzed: 04/10/15 13:23 | | | | |
| Iodide | 70.1 | 10 | ug/l | 40.0 | 35.5 | 86 | 80-120 | 1 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0533-BLK1) | | | | Analyzed: 04/14/15 13:22 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0533-BLK1) | | | | | | | | | | |
| Analyzed: 04/14/15 13:22 | | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| Surr: Decachlorobiphenyl | 0.118 | | ug/l | 0.100 | | 118 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0695 | | ug/l | 0.100 | | 70 | 70-130 | | | |
| LCS (W5D0533-BS1) | | | | | | | | | | |
| Analyzed: 04/14/15 13:52 | | | | | | | | | | |
| 4,4'-DDD | 0.136 | 0.010 | ug/l | 0.100 | | 136 | 55-142 | | | |
| 4,4'-DDE | 0.118 | 0.010 | ug/l | 0.100 | | 118 | 49-129 | | | |
| 4,4'-DDT | 0.133 | 0.010 | ug/l | 0.100 | | 133 | 54-160 | | | |
| Aldrin | 0.0738 | 0.010 | ug/l | 0.100 | | 74 | 29-115 | | | |
| alpha-BHC | 0.110 | 0.010 | ug/l | 0.100 | | 110 | 59-131 | | | |
| beta-BHC | 0.131 | 0.010 | ug/l | 0.100 | | 131 | 63-136 | | | |
| delta-BHC | 0.138 | 0.010 | ug/l | 0.100 | | 138 | 59-137 | | | Q-08 |
| Dieldrin | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 59-135 | | | |
| Endosulfan I | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 28-138 | | | |
| Endosulfan II | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 53-133 | | | |
| Endosulfan sulfate | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 58-155 | | | |
| Endrin | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 57-148 | | | |
| Endrin aldehyde | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 59-129 | | | |
| Heptachlor | 0.0963 | 0.010 | ug/l | 0.100 | | 96 | 42-136 | | | |
| Heptachlor epoxide | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 59-134 | | | |
| Methoxychlor | 0.0847 | 0.010 | ug/l | 0.100 | | 85 | 56-167 | | | |
| Surr: Decachlorobiphenyl | 0.116 | | ug/l | 0.100 | | 116 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0704 | | ug/l | 0.100 | | 70 | 70-130 | | | |
| LCS (W5D0533-BS2) | | | | | | | | | | |
| Analyzed: 04/14/15 17:27 | | | | | | | | | | |
| Aroclor 1016 | 1.23 | 0.10 | ug/l | 1.00 | | 123 | 49-152 | | | |
| Aroclor 1260 | 1.24 | 0.10 | ug/l | 1.00 | | 124 | 52-146 | | | |
| Surr: Decachlorobiphenyl | 0.133 | | ug/l | 0.100 | | 133 | 70-130 | | | S-11 |
| Surr: Tetrachloro-meta-xylene | 0.0753 | | ug/l | 0.100 | | 75 | 70-130 | | | |
| LCS Dup (W5D0533-BSD1) | | | | | | | | | | |
| Analyzed: 04/14/15 14:23 | | | | | | | | | | |
| 4,4'-DDD | 0.147 | 0.010 | ug/l | 0.100 | | 147 | 55-142 | 8 | 25 | Q-08 |
| 4,4'-DDE | 0.128 | 0.010 | ug/l | 0.100 | | 128 | 49-129 | 8 | 25 | |
| 4,4'-DDT | 0.148 | 0.010 | ug/l | 0.100 | | 148 | 54-160 | 10 | 25 | |
| Aldrin | 0.0843 | 0.010 | ug/l | 0.100 | | 84 | 29-115 | 13 | 25 | |
| alpha-BHC | 0.118 | 0.010 | ug/l | 0.100 | | 118 | 59-131 | 7 | 25 | |
| beta-BHC | 0.138 | 0.010 | ug/l | 0.100 | | 138 | 63-136 | 5 | 25 | Q-08 |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS Dup (W5D0533-BSD1) | | | | Analyzed: 04/14/15 14:23 | | | | | | |
| delta-BHC | 0.142 | 0.010 | ug/l | 0.100 | | 142 | 59-137 | 3 | 25 | Q-08 |
| Dieldrin | 0.123 | 0.010 | ug/l | 0.100 | | 123 | 59-135 | 8 | 25 | |
| Endosulfan I | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 28-138 | 7 | 25 | |
| Endosulfan II | 0.117 | 0.010 | ug/l | 0.100 | | 117 | 53-133 | 8 | 25 | |
| Endosulfan sulfate | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 58-155 | 8 | 25 | |
| Endrin | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 57-148 | 8 | 25 | |
| Endrin aldehyde | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 45-139 | 13 | 25 | |
| gamma-BHC (Lindane) | 0.122 | 0.010 | ug/l | 0.100 | | 122 | 59-129 | 7 | 25 | |
| Heptachlor | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 42-136 | 8 | 25 | |
| Heptachlor epoxide | 0.119 | 0.010 | ug/l | 0.100 | | 119 | 59-134 | 7 | 25 | |
| Methoxychlor | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 56-167 | 25 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.124 | | ug/l | 0.100 | | 124 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0716 | | ug/l | 0.100 | | 72 | 70-130 | | | |
| LCS Dup (W5D0533-BSD2) | | | | Analyzed: 04/14/15 17:58 | | | | | | |
| Aroclor 1016 | 1.17 | 0.10 | ug/l | 1.00 | | 117 | 49-152 | 5 | 25 | |
| Aroclor 1260 | 1.20 | 0.10 | ug/l | 1.00 | | 120 | 52-146 | 3 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.122 | | ug/l | 0.100 | | 122 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0730 | | ug/l | 0.100 | | 73 | 70-130 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:08

Notes and Definitions

| | |
|--------------|---|
| S-11 | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| Q-08 | High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5D0720

4/21/2015

Invoice: A508079

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5D0720 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/8/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montieth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montieth , at (800) 877-8310 or (559) 497-2888 x201.



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 4/08/2015 - 09:30 Report Due: 4/22/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 0.3 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Packing Material - Other Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- CV0.0 CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS1.2 Matrix spike recovery exceeds lower control limit. Reported results for parent matrix should be considered estimated due to matrix interferences.
- MS2.1 MS/MSD RPD exceeds control limit. Reportable results in parent sample may have some degree of variability, higher than that inherent in the method.
- SR2.0 Surrogate recovery exceeds lower control limit due to matrix interference as confirmed by re-analysis. Associated results should be considered biased low.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5D0720-01
Sampled By: Azad Khaligh
Sample Description: MW-6S (monitoring) // AB28822

Sample Date - Time: 04/05/15 - 08:20
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A504110 | 04/14/15 | 04/15/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A504110 | 04/14/15 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 105 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Surrogate: DCPAA | EPA 515.3 | 98 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |

Certificate of Analysis

Sample ID: A5D0720-01
Sampled By: Azad Khaligh
Sample Description: MW-6S (monitoring) // AB28822

Sample Date - Time: 04/05/15 - 08:20
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|----------------------------|-------|---------|---------|----------|----------|-----------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | BS1.0, CV0.0 |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Toluene | EPA 524.2 | 1.0 | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 87 % | Acceptable range: 70-130 % | | | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 93 % | Acceptable range: 70-130 % | | | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5D0720-01
Sampled By: Azad Khaligh
Sample Description: MW-6S (monitoring) // AB28822

Sample Date - Time: 04/05/15 - 08:20
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Semi-Volatile Organics by GC-MS | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 102 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Carbamates by HPLC | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Glyphosate by HPLC | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A503998 | 04/10/15 | 04/10/15 | |
| Surrogate: AMPA | EPA 547 | 103 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Endothall by GC-MS | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A504033 | 04/10/15 | 04/12/15 | MS1.2 |
| Diquat by HPLC | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A503930 | 04/09/15 | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A504110

Prepared: 04/14/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A504110-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.52 | | | 0.46 | | 115 | 70-130 | | | 04/15/15 | |

Blank Spike (A504110-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | | 104 | 70-130 | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 98 | 70-130 | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.49 | | | 0.46 | | 107 | 70-130 | | | 04/15/15 | |

Blank Spike Dup (A504110-bsd1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | | 108 | 70-130 | 4 | 20 | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 101 | 70-130 | 3 | 20 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 105 | 70-130 | | | 04/15/15 | |

Matrix Spike (A504110-MS1), Source: A5D0983-02

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | ND | 108 | 65-135 | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 101 | 65-135 | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.50 | | | 0.46 | | 107 | 70-130 | | | 04/15/15 | |

Matrix Spike Dup (A504110-MSD1), Source: A5D0983-02

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | ND | 104 | 65-135 | 5 | 20 | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.21 | 0.020 | ug/L | 0.20 | ND | 104 | 65-135 | 1 | 20 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 102 | 70-130 | | | 04/15/15 | |

EPA 515.3 - Quality Control

Batch: A503970

Prepared: 04/09/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A503970-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 04/10/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 04/10/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 99 | 70-130 | | | 04/10/15 | |

Blank Spike (A503970-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | | 102 | 70-130 | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.82 | 1.0 | ug/L | 0.80 | | 103 | 70-130 | | | 04/10/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | | 105 | 70-130 | | | 04/10/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | | 97 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A503970

Prepared: 04/09/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A503970-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 3.9 | 10 | ug/L | 4.0 | | 96 | 70-130 | | | 04/10/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | | 101 | 70-130 | | | 04/10/15 | |
| Dinoseb | 0.75 | 2.0 | ug/L | 0.80 | | 94 | 70-130 | | | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 95 | 70-130 | | | 04/10/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | | 97 | 70-130 | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503970-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | | 102 | 70-130 | 0 | 20 | 04/11/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | | 103 | 70-130 | 1 | 20 | 04/11/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | | 108 | 70-130 | 3 | 20 | 04/11/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | | 97 | 70-130 | 0 | 20 | 04/11/15 | |
| Dalapon | 3.8 | 10 | ug/L | 4.0 | | 95 | 70-130 | 1 | 20 | 04/11/15 | |
| Dicamba | 5.8 | 1.5 | ug/L | 6.0 | | 97 | 70-130 | 3 | 20 | 04/11/15 | |
| Dinoseb | 0.78 | 2.0 | ug/L | 0.80 | | 98 | 70-130 | 4 | 20 | 04/11/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 93 | 70-130 | 2 | 20 | 04/11/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 99 | 70-130 | 2 | 20 | 04/11/15 | |
| Surrogate: DCPAA | 55 | | | 58 | | 95 | 70-130 | | | 04/11/15 | |

Matrix Spike (A503970-MS1), Source: A5D0701-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | ND | 102 | 70-130 | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.80 | 1.0 | ug/L | 0.80 | ND | 100 | 70-130 | | | 04/10/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | ND | 104 | 70-130 | | | 04/10/15 | |
| Bentazon | 7.8 | 2.0 | ug/L | 8.0 | ND | 97 | 70-130 | | | 04/10/15 | |
| Dalapon | 4.2 | 10 | ug/L | 4.0 | ND | 105 | 70-130 | | | 04/10/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | ND | 99 | 70-130 | | | 04/10/15 | |
| Dinoseb | 0.75 | 2.0 | ug/L | 0.80 | ND | 94 | 70-130 | | | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 96 | 70-130 | | | 04/10/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | ND | 98 | 70-130 | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 04/10/15 | |

Matrix Spike Dup (A503970-MSD1), Source: A5D0701-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 3.9 | 1.0 | ug/L | 4.0 | ND | 99 | 70-130 | 4 | 20 | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.79 | 1.0 | ug/L | 0.80 | ND | 98 | 70-130 | 2 | 20 | 04/10/15 | |
| 2,4-D | 0.39 | 10 | ug/L | 0.40 | ND | 98 | 70-130 | 5 | 20 | 04/10/15 | |
| Bentazon | 7.5 | 2.0 | ug/L | 8.0 | ND | 93 | 70-130 | 4 | 20 | 04/10/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | ND | 100 | 70-130 | 5 | 20 | 04/10/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | ND | 98 | 70-130 | 1 | 20 | 04/10/15 | |
| Dinoseb | 0.73 | 2.0 | ug/L | 0.80 | ND | 91 | 70-130 | 3 | 20 | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 92 | 70-130 | 4 | 20 | 04/10/15 | |
| Picloram | 0.37 | 1.0 | ug/L | 0.40 | ND | 91 | 70-130 | 7 | 20 | 04/10/15 | |
| Surrogate: DCPAA | 56 | | | 58 | | 97 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503993-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503993-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.4 | | | 5.0 | | 87 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 47 | | | 50 | | 93 | 70-130 | | | 04/10/15 | |

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| 1,2,3-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,2,4-Trimethylbenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 04/10/15 | |
| 1,2-Dichlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,3,5-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,3-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,4-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 2-Butanone | 11 | 5.0 | ug/L | 10 | | 113 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|---------|
| 2-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| 4-Chlorotoluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | | 105 | 70-130 | | | 04/10/15 | |
| Acetone | 11 | 10 | ug/L | 10 | | 114 | 70-130 | | | 04/10/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| Bromobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| Bromochloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 04/10/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | | | 04/10/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| Chlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| Chloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Chloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Dichlorodifluoromethane | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 04/10/15 | |
| Dichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Ethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Hexachlorobutadiene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| Isopropylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 96 | 70-130 | | | 04/10/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 04/10/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| n-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| n-Propylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 04/10/15 | |
| o-Xylene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| p-Isopropyltoluene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 04/10/15 | |
| sec-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| Styrene | 16 | 0.50 | ug/L | 10 | | 156 | 70-130 | | | 04/10/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 10 | 3.0 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| tert-Butyl alcohol (TBA) | 11 | 2.0 | ug/L | 10 | | 112 | 70-130 | | | 04/10/15 | |
| tert-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| Tetrachloroethene (PCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| Trichloroethene (TCE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| Trichlorofluoromethane | 9.4 | 5.0 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Vinyl Chloride | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 98 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503993-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,1,1-Trichloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 6 | 30 | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.2 | 10 | ug/L | 10 | | 92 | 70-130 | 8 | 30 | 04/10/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,1-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,1-Dichloroethene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,1-Dichloropropene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 6 | 30 | 04/10/15 | |
| 1,2,3-Trichlorobenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,2,4-Trimethylbenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,2-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 04/10/15 | |
| 1,2-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,3-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,3-Dichloropropane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,4-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 2,2-Dichloropropane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 100 | 70-130 | 12 | 30 | 04/10/15 | |
| 2-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 04/10/15 | |
| 2-Hexanone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | 7 | 30 | 04/10/15 | |
| 4-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 4-Methyl-2-pentanone | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | 6 | 30 | 04/10/15 | |
| Acetone | 10 | 10 | ug/L | 10 | | 103 | 70-130 | 10 | 30 | 04/10/15 | |
| Benzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromochloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 04/10/15 | |
| Bromodichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromoform | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 5 | 30 | 04/10/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | 1 | 30 | 04/10/15 | |
| Carbon Tetrachloride | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 5 | 30 | 04/10/15 | |
| Chlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 04/10/15 | |
| Chloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| Chloromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 04/10/15 | |
| cis-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| cis-1,3-Dichloropropene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 04/10/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A503993-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|----|----|----------|---------|
| Dichlorodifluoromethane | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 4 | 30 | 04/10/15 | |
| Dichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 04/10/15 | |
| Di-isopropyl ether (DIPE) | 9.8 | 3.0 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Ethylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 04/10/15 | |
| Hexachlorobutadiene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 7 | 30 | 04/10/15 | |
| Isopropylbenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| m,p-Xylenes | 18 | 0.50 | ug/L | 20 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 2 | 30 | 04/10/15 | |
| Naphthalene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| n-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 5 | 30 | 04/10/15 | |
| n-Propylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 3 | 30 | 04/10/15 | |
| o-Xylene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 3 | 30 | 04/10/15 | |
| p-Isopropyltoluene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 04/10/15 | |
| sec-Butylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 04/10/15 | |
| Styrene | 15 | 0.50 | ug/L | 10 | | 153 | 70-130 | 2 | 30 | 04/10/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 9.9 | 3.0 | ug/L | 10 | | 99 | 70-130 | 4 | 30 | 04/10/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 102 | 70-130 | 10 | 30 | 04/10/15 | |
| tert-Butylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 04/10/15 | |
| Tetrachloroethene (PCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 04/10/15 | |
| Toluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| trans-1,2-Dichloroethene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 5 | 30 | 04/10/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/10/15 | |
| Trichloroethene (TCE) | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 04/10/15 | |
| Trichlorofluoromethane | 9.1 | 5.0 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| Vinyl Chloride | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 99 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 04/10/15 | |

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A503868-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 04/10/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 04/10/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A503868-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Molinate | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.5 | | | 5.0 | | 110 | 70-130 | | | 04/10/15 | |

Blank Spike (A503868-BS1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 105 | 70-130 | | | 04/10/15 | |
| Atrazine | 0.54 | 0.50 | ug/L | 0.50 | | 108 | 70-130 | | | 04/10/15 | |
| Benzo(a)pyrene | 0.076 | 0.10 | ug/L | 0.10 | | 76 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 106 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 112 | 70-130 | | | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | | 110 | 70-130 | | | 04/10/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 105 | 70-130 | | | 04/10/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.20 | | 93 | 70-130 | | | 04/10/15 | |
| Dimethoate | 0.78 | 10 | ug/L | 1.0 | | 78 | 70-130 | | | 04/10/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 110 | 70-130 | | | 04/10/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | | 109 | 70-130 | | | 04/10/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 104 | 70-130 | | | 04/10/15 | |
| Prometryn | 2.2 | 2.0 | ug/L | 2.0 | | 109 | 70-130 | | | 04/10/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | | | 04/10/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 103 | 70-130 | | | 04/10/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 104 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 109 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503868-BSD1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | | 102 | 70-130 | 4 | 30 | 04/10/15 | |
| Atrazine | 0.46 | 0.50 | ug/L | 0.50 | | 92 | 70-130 | 16 | 30 | 04/10/15 | |
| Benzo(a)pyrene | 0.092 | 0.10 | ug/L | 0.10 | | 92 | 70-130 | 19 | 30 | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 109 | 70-130 | 3 | 30 | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 109 | 70-130 | 3 | 30 | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | | 107 | 70-130 | 3 | 30 | 04/10/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 102 | 70-130 | 4 | 30 | 04/10/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | | 88 | 70-130 | 5 | 30 | 04/10/15 | |
| Dimethoate | 0.78 | 10 | ug/L | 1.0 | | 78 | 70-130 | 0 | 30 | 04/10/15 | |
| Metolachlor | 2.0 | 0.50 | ug/L | 2.0 | | 102 | 70-130 | 7 | 30 | 04/10/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | | 106 | 70-130 | 3 | 30 | 04/10/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 102 | 70-130 | 2 | 30 | 04/10/15 | |
| Prometryn | 2.0 | 2.0 | ug/L | 2.0 | | 101 | 70-130 | 8 | 30 | 04/10/15 | |
| Propachlor | 0.52 | 0.50 | ug/L | 0.50 | | 105 | 70-130 | 2 | 30 | 04/10/15 | |
| Simazine | 0.33 | 1.0 | ug/L | 0.35 | | 95 | 70-130 | 8 | 30 | 04/10/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.50 | | 101 | 70-130 | 3 | 30 | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 103 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Matrix Spike (A503868-MS1), Source: A5D0483-01

| | | | | | | | | | | | |
|--|-------|------|------|------|----|-----|--------|--|--|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | ND | 101 | 70-130 | | | 04/10/15 | |
| Atrazine | 0.48 | 0.50 | ug/L | 0.50 | ND | 95 | 70-130 | | | 04/10/15 | |
| Benzo(a)pyrene | 0.084 | 0.10 | ug/L | 0.10 | ND | 84 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.0 | 3.0 | ug/L | 2.0 | ND | 98 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 112 | 70-130 | | | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | ND | 111 | 70-130 | | | 04/10/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | ND | 101 | 70-130 | | | 04/10/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | ND | 98 | 70-130 | | | 04/10/15 | |
| Dimethoate | 0.93 | 10 | ug/L | 1.0 | ND | 93 | 70-130 | | | 04/10/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 105 | 70-130 | | | 04/10/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 1.0 | ND | 104 | 70-130 | | | 04/10/15 | |
| Molinate | 0.96 | 2.0 | ug/L | 1.0 | ND | 96 | 70-130 | | | 04/10/15 | |
| Prometryn | 2.2 | 2.0 | ug/L | 2.0 | ND | 108 | 70-130 | | | 04/10/15 | |
| Propachlor | 0.52 | 0.50 | ug/L | 0.50 | ND | 104 | 70-130 | | | 04/10/15 | |
| Simazine | 0.39 | 1.0 | ug/L | 0.35 | ND | 101 | 70-130 | | | 04/10/15 | |
| Thiobencarb | 0.51 | 1.0 | ug/L | 0.50 | ND | 102 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 102 | 70-130 | | | 04/10/15 | |

EPA 531.1 - Quality Control

Batch: A503881

Prepared: 04/09/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A503881-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 04/09/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 04/09/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 04/09/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |

Blank Spike (A503881-BS1)

| | | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|----|------|
| 3-Hydroxycarbofuran | 4.9 | 3.0 | ug/L | 4.0 | | 122 | 80-120 | | | 04/09/15 | BS | High |
| Aldicarb | 4.7 | 3.0 | ug/L | 4.0 | | 116 | 80-120 | | | 04/09/15 | | |
| Aldicarb Sulfone | 5.0 | 2.0 | ug/L | 4.0 | | 124 | 80-120 | | | 04/09/15 | BS | High |
| Aldicarb Sulfoxide | 5.0 | 3.0 | ug/L | 4.0 | | 126 | 80-120 | | | 04/09/15 | BS | High |
| Carbaryl | 4.8 | 5.0 | ug/L | 4.0 | | 121 | 80-120 | | | 04/09/15 | BS | High |
| Carbofuran | 4.8 | 5.0 | ug/L | 4.0 | | 121 | 80-120 | | | 04/09/15 | BS | High |
| Methiocarb | 4.7 | 2.0 | ug/L | 4.0 | | 119 | 80-120 | | | 04/09/15 | | |
| Methomyl | 5.1 | 2.0 | ug/L | 4.0 | | 129 | 80-120 | | | 04/09/15 | BS | High |
| Oxamyl | 5.0 | 20 | ug/L | 4.0 | | 124 | 80-120 | | | 04/09/15 | BS | High |
| Propoxur | 4.7 | 2.0 | ug/L | 4.0 | | 117 | 80-120 | | | 04/09/15 | | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A503881

Prepared: 04/09/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike Dup (A503881-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 4.4 | 3.0 | ug/L | 4.0 | | 109 | 80-120 | 11 | 20 | 04/09/15 | |
| Aldicarb | 4.5 | 3.0 | ug/L | 4.0 | | 113 | 80-120 | 3 | 20 | 04/09/15 | |
| Aldicarb Sulfone | 4.5 | 2.0 | ug/L | 4.0 | | 112 | 80-120 | 10 | 20 | 04/09/15 | |
| Aldicarb Sulfoxide | 4.5 | 3.0 | ug/L | 4.0 | | 113 | 80-120 | 11 | 20 | 04/09/15 | |
| Carbaryl | 4.5 | 5.0 | ug/L | 4.0 | | 113 | 80-120 | 7 | 20 | 04/09/15 | |
| Carbofuran | 4.4 | 5.0 | ug/L | 4.0 | | 111 | 80-120 | 9 | 20 | 04/09/15 | |
| Methiocarb | 4.3 | 2.0 | ug/L | 4.0 | | 108 | 80-120 | 9 | 20 | 04/09/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | | 111 | 80-120 | 15 | 20 | 04/09/15 | |
| Oxamyl | 4.5 | 20 | ug/L | 4.0 | | 112 | 80-120 | 10 | 20 | 04/09/15 | |
| Propoxur | 4.4 | 2.0 | ug/L | 4.0 | | 110 | 80-120 | 6 | 20 | 04/09/15 | |

EPA 547 - Quality Control

Batch: A503998

Prepared: 04/10/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A503998-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 114 | 70-130 | | | 04/10/15 | |

Blank Spike (A503998-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 130 | 25 | ug/L | 100 | | 130 | 70-130 | | | 04/10/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 116 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503998-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|---|----|----------|--|
| Glyphosate | 130 | 25 | ug/L | 100 | | 130 | 70-130 | 0 | 30 | 04/10/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 116 | 70-130 | | | 04/10/15 | |

Matrix Spike (A503998-MS1), Source: A5D0924-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|------------|
| Glyphosate | 180 | 25 | ug/L | 100 | ND | 161 | 70-130 | | | 04/10/15 | MS1.0 High |
| Surrogate: AMPA | 21 | | | 100 | | 21 | 70-130 | | | 04/10/15 | SR2.0 |

Matrix Spike Dup (A503998-MSD1), Source: A5D0924-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|-------|
| Glyphosate | 120 | 25 | ug/L | 100 | ND | 101 | 70-130 | 41 | 30 | 04/10/15 | MS2.1 |
| Surrogate: AMPA | 86 | | | 100 | | 84 | 70-130 | | | 04/10/15 | |

EPA 548.1 - Quality Control

Batch: A504033

Prepared: 04/10/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank (A504033-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 04/12/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A504033-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 91 | 54-105 | | | 04/12/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A504033

Prepared: 04/10/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank Spike Dup (A504033-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|---|----|----------|--|
| Endothall | 17 | 45 | ug/L | 20 | | 86 | 54-105 | 6 | 46 | 04/12/15 | |
|-----------|----|----|------|----|--|----|--------|---|----|----------|--|

Matrix Spike (A504033-MS1), Source: A5D0720-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|
| Endothall | ND | 45 | ug/L | 20 | ND | 0 | 54-105 | | | 04/12/15 | MS1.0 Low |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|

EPA 549.2 - Quality Control

Batch: A503930

Prepared: 04/09/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A503930-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 04/10/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A503930-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | | 87 | 70-130 | | | 04/10/15 | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A503930-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | | 86 | 70-130 | 0 | 30 | 04/10/15 | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|

Matrix Spike (A503930-MS1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | ND | 85 | 70-130 | | | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Matrix Spike Dup (A503930-MSD1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | ND | 88 | 70-130 | 3 | 30 | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-14 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|---------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-13 |
|-------------------------|----------|---------------------|---------|



A5D0720



04082015

Monte6227

Turnaround: Standard

Due Date: 4/22/2015



Monterey Bay Analytical



BSK Associates & Laboratories

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

0.3

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ASD0720
 Montec6227
 04/08/2015
 10



Company/Client Name*: Monterey Bay Analytical Services
 Report Attention*: Mason Weidner-Holland
 Additional cc's: David Holland
 City*: Monterey
 State*: CA
 Zip*: 93940
 Invoice To*: David Holland
 PO#:
 Phone*: 831-375-6227
 Fax: 831-641-0734
 E-mail: mweidner@mbasinc.com, dholland@mbasinc.com

Address*: 4 Justin Court, Suite D
 Project: Cal Am
 Project #:
 Reporting Options:
 Trace (J-Flag) Swamp EDD Type:
 Regulatory Carbon Copies
 SWRCB (Drinking Water) Fresno Co
 Merced Co Tulare Co
 Madera Co Other:
 EDT to California SWRCB (Drinking Water)
 System Number:
 Geotracker #:
 E-Mail Fax Mail
 How would you like to receive your completed results?
 Regulatory Compliance

Sampler Name (Printed/Signature)*: Azad Khalighi
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix*: GW
 Comments / Station Code / WTRAX: EPA 524 inc. MTBE
 EPA 504
 EPA 515
 EPA 525
 EPA 531
 EPA 547
 EPA 548
 EPA 549

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX | X | X | X | X | X | X | X | X | X |
|-------------------------------------|---------------------|----------|------|---------|---------------------------------|---|---|---|---|---|---|---|---|---|
| | | Date | Time | | | | | | | | | | | |
| 1 | MW-6S (monitoring) | 4/5/15 | 0820 | GW | | X | X | X | X | X | X | X | X | X |
| Please include excellent report. | | | | | | | | | | | | | | |

Relinquished by: (Signature and Printed Name) D. Holland
 Company: MBAS
 Date: 4/7/15
 Time: 1600
 Received by: (Signature and Printed Name)
 Date:
 Time:
 Payment Received:
 Date:
 Company:
 Check: / Int. Cash

Shipping Method: ONTRAC
 UPS
 GSO
 WALK-IN
 FED EX
 Counter:
 Chilling Process Begun:
 Amount:
 P/A#:
 SR-FL-0012-06

Sample Integrity



BSK Bottles: Yes No

Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | Yes | No | NA | Were correct containers and preservatives received for the tests requested? | | Yes | No | NA |
|---|--|--------------|--------------------|----|-----------|---|--------------------|-----|----|----|
| | If samples were taken today, is there evidence that chilling has begun? | | Yes | No | NA | Were there bubbles in the VOA vials? (Volatiles Only) | | Yes | No | NA |
| | Did all bottles arrive unbroken and intact? | | Yes | No | | Was a sufficient amount of sample received? | | Yes | No | |
| | Did all bottle labels agree with COC? | | Yes | No | | Do samples have a hold time <72 hours? | | Yes | No | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | Yes | No | NA | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | Yes | No | NA |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | | | |
| | None (P) ^{White Cap} | — | — | | | | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | pH > 8 | Y | N | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y | N | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y | N | | | | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | | | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | | | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | | | | | |
| | $\text{NaOH} + \text{ZnAc}$ (P) | pH > 9 | Y | N | | | | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | | | |
| | $\text{Na}_2\text{O}_3\text{S} + \text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | | 2C | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | | 1C | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548, THM, 524 | — | — | | | 2A | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | 4V | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | Y | N | | 1V | | | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | | | | |
| | HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624 | — | — | | | 3V | | | | |
| | Buffer pH 4 (CG) | — | — | | | | | | | |
| | None (CG) | — | — | | | | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | | | |
| | Other: | | | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | | | |
| Low Level Hg / Metals Double Baggie | — | — | | | | | | | | |
| Bottled Water | — | — | | | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | | Container | Preservative | Date/Time/Initials | | | |
| | S P | | | | S P | | | | | |
| | S P | | | | S P | | | | | |
| Comments | | | | | | | | | | |

}

dw

4/8/15

Monterey Bay Analytical Services Chain Of Custody / Analysis Request

4 Justin Ct. Suite D • Monterey, Ca 93940 • (831) 375-MBAS (6227) • (831) 641-0734 (Fax)



Client/Company Name: CALIFORNIA AMERICAN WATER - MONTEREY PENINSULA WATER SUPPLY PROJECT
 Attention: TRAVIS PETERSON (CAL AM)
 SUEAN JACOBSON @ AMWATER.COM
 N. RAYFORD @ GEOSCIENTIFIC-WATER.COM
 BVILLALOBOS @ GEOSCIENTIFIC-WATER.COM

Billing Address: P.O. BOX 951
 MONTEREY, CA 93942-0951

E-Mail Address(es): ATTN: TRAVIS PETERSON (CAL AM)
 Contract/P.O. #:

Turn Around Time:
 STD (7-14 Days) 48-Hour
 5-Day 24-Hour
 Phone: (831) 646-3295
 Fax: (831) 383-1343

Drinking water Wastewater Monitoring Well Soil Sludge Other

Project/System Information:
 For Regulatory Compliance? YES NO
 For State or Local Health Department reporting:
 Electronic Data Transfer (EDT)? YES NO
 System ID Number: _____

SEE ATTACHED GEOSCIENTIFIC ANALYST

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | CL2 Residual | Coliform Analysis | | | | # Cont. | Container | |
|------------|-----------------------------|--|----------|------|-----------------|--------------|-------------------|-------|--------|---------|---------|-----------|------|
| | | | Date | Time | | | Routine | Other | Repeat | Special | | Type | Size |
| 28022 | MPNSP | MW-6 S | 4/5/2015 | 8:20 | 3.0 | | | | | | 23 | | |
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| | Printed Name | Signature | Date | Time | Comments or Special Instructions: |
|------------------|----------------------------------|-----------|--------|------|-----------------------------------|
| Sampled by: | AZAD KHALIGH | | 4/6/15 | 9:18 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | Monterey Bay Analytical Services | | 4/6/15 | 0921 | |

Payment received Check # Amount: Receipt # Date:

SEE ATTACHED LIST.

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA <2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
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| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
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Comments

1 L vacuum filtered 0.45μ + divided 500ML + $\text{Na}_2\text{S}_2\text{O}_3$ + H_2SO_4 for diss. TKN
 250ML + H_2SO_4 for diss. TP
 250ML NP for diss. color PO_4^{3-}
 2ML 1:1 HNO_3 to PH < 2 LJS 4/6/15 LJS 4/6/15

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L 6PII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| <i>Volatile Organic Compounds</i> | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| <i>EPA Organic Methods</i> | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

Lisa Jacobs

From: Azad Khalighi <AKhalighi@geoscience-water.com>
Sent: Monday, April 06, 2015 4:17 PM
To: Lisa Jacobs
Cc: David Holland
Subject: Today's MW-6S samples (COC Notes)

Hi Lisa,

Sorry for this being sent late in the day (just got back from fieldwork).

The field parameters for the MW-6S groundwater samples (sampled on 4/5/2015 at 8:20AM, and delivered this morning) are:

pH: 7.07

Specific Conductance: 1,011 uS/cm

Conductivity: 869 uS/cm

Turbidity: .62 NTU

Thanks!

Azad

Total Control Panel

[Login](#)

To: ljacobs@mbasinc.com

Message Score: 70

High (60): Fail

From: akhalighi@geoscience-water.com

My Spam Blocking Level: Medium

Medium (75): Pass

Low (90): Pass

[Block](#) this sender

[Block](#) geoscience-water.com

This message was delivered because the content filter score did not exceed your filter level.



California American Water
P.O. Box 951, Monterey, CA 93942-0951
ph: 831-646-3259 / 831-646-3269
Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB28815

Collection Date/Time: 4/4/2015 8:55 Sample Collector: KHALIGIH A
Submittal Date/Time: 4/4/2015 10:53 Sample ID

Sample Description: MW-6M

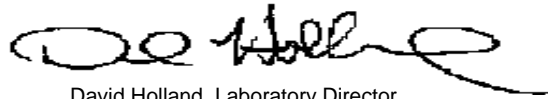
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|--------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 397 | | 2 | 4/14/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 4/13/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | 0.17 | | 0.05 | 4/8/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 5 | | 1 | 4/13/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 155 | | 10 | 4/13/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 484 | | 10 | 4/14/2015 | LRH |
| Boron, Dissolved | EPA200.7 | mg/L | Not Detected | | 0.5 | 4/10/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 0.5 | | 0.1 | 4/4/2015 | MW |
| Calcium | EPA200.7 | mg/L | 139 | | 5 | 4/24/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 140 | | 5 | 4/24/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 4/9/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 4/14/2015 | LRH |
| Chloride, Dissolved | EPA300.0 | mg/L | 167 | | 1 | 4/4/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Attached | E | | 4/15/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 16 | | 3 | 4/6/2015 | LRH |
| Copper, Total | EPA200.8 | µg/L | Not Detected | | 4 | 4/13/2015 | SM |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 4/15/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 4/10/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 4/12/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | Not Detected | | 0.1 | 4/4/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 565 | | 10 | 4/27/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 4/14/2015 | LRH |
| Iodide | EPA9056M | µg/L | 35 | E | 10 | 4/10/2015 | WECK |
| Iron | EPA200.7 | µg/L | 184 | | 100 | 4/10/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|------------------------------------|---------------|----------|---------------------|---|------|-----------|-----|
| Iron, Dissolved | EPA200.7 | µg/L | 182 | | 100 | 4/10/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | 0.7 | | 0.5 | 4/14/2015 | TC |
| Lithium | EPA200.8 | µg/L | 17 | | 1 | 4/13/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 53 | | 5 | 4/10/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 49 | | 5 | 4/24/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 821 | | 100 | 4/10/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 810 | | 100 | 4/10/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | H | 0.05 | 4/7/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | Not Detected | | 1 | 4/4/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 0.5 | | 0.1 | 4/4/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.1 | | 0.1 | 4/4/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 1 | | 1 | 4/4/2015 | TC |
| o-Phosphate-P | Hach 8048 | mg/L | 0.32 | | 0.03 | 4/6/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.43 | | | 4/4/2015 | AK |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.4 | | 0.1 | 4/4/2015 | TC |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | | 4/11/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.31 | | 0.03 | 4/13/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 6.4 | | 5 | 4/10/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 7.0 | | 5 | 4/24/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.63 | | | 4/9/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 44 | | 5 | 4/10/2015 | MW |
| Sodium | EPA200.7 | mg/L | 140 | | 5 | 4/24/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 141 | | 5 | 4/24/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 1545 | | 1 | 4/7/2015 | TC |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 1531 | | 1 | 4/4/2015 | AK |
| Strontium, Dissolved | EPA200.8 | µg/L | 761 | | 5 | 4/13/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 175 | | 1 | 4/4/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 16.8 | | | 4/4/2015 | TC |
| Total Diss. Solids | SM2540C | mg/L | 966 | | 10 | 4/7/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.70 | | 0.05 | 4/4/2015 | TC |
| Turbidity (Field) | EPA180.1 | NTU | 0.70 | | 0.05 | 4/4/2015 | TC |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Zinc, Total | EPA200.8 | µg/L | Not Detected | | 20 | 4/13/2015 | SM |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL

H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28815 Total Ions**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 140 | 0.04350 | 6.09 |
| Potassium | 6.4 | 0.02558 | 0.16 |
| Calcium | 139 | 0.04990 | 6.94 |
| Magnesium | 53 | 0.08229 | 4.36 |
| NH3-N | 0.17 | 0.07143 | 0.01 |
| | | SUM | 17.56 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 397 | 0.02000 | 7.94 |
| Sulfate | 175 | 0.02082 | 3.64 |
| Chloride | 167 | 0.02821 | 4.71 |
| Nitrate-Nitrogen | 0.4 | 0.07138 | 0.03 |
| Phosphate-P | 0.31 | 0.01031 | 0.00 |
| Bromide | 0.5 | 0.01252 | 0.01 |
| | | SUM | 16.33 |

ANION-CATION BALANCE **4** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 1545 | |
| Cation Sum X 100 | 1756 | 114% |
| Anion Sum X 100 | 1633 | 106% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28815 Dissolved Ions**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 141 | 0.04350 | 6.13 |
| Potassium | 7 | 0.02558 | 0.18 |
| Calcium | 140 | 0.04990 | 6.99 |
| Magnesium | 49 | 0.08229 | 4.03 |
| NH3-N | 0.17 | 0.07143 | 0.01 |
| | | SUM | 17.34 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 397 | 0.02000 | 7.94 |
| Sulfate | 175 | 0.02082 | 3.64 |
| Chloride | 167 | 0.02821 | 4.71 |
| Nitrate-Nitrogen | 0.4 | 0.07138 | 0.03 |
| Phosphate-P | 0.31 | 0.01031 | 0.00 |
| Bromide | 0.5 | 0.01252 | 0.01 |
| | | SUM | 16.33 |

ANION-CATION BALANCE **3** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 1545 | |
| Cation Sum X 100 | 1734 | 112% |
| Anion Sum X 100 | 1633 | 106% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

pH QC Summary (SM 4500 H+)

Date Analyzed: 4/4/2015
 Time Analyzed: 1100

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.86 | 6.82 | 99.4 | 95-105 | |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB28815 | 7.4 | 7.4 | 0.0 | 10 | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 4/4/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | 0.380 | --- | <0.05 | 1100 |
| ICV | 1.00 | 1.02 | 102.0% | 95-105 | 1100 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB28815 | 0.700 | 0.700 | 0.00% | 10 | 1100 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 4/7/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 0 | --- | <10 | 1410 |
| ICVL | 100 | 94 | 94 | 80-120 | 1410 |
| ICV | 500 | 503 | 100.6 | 90-110 | 1410 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB28970 | 768 | 751 | 2.2 | 10 | 1520 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

4 Justin Court Ste D, Monterey, CA 93940

831.375.MBAS (6227), 831.641.0734 (Fax)

MontereyBayAnalytical@usa.net

<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID:

20150404

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.00 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 |
| ICV | 1.93 | 19.34 | 2.01 | 20.19 | 1.75 | 1.83 |
| Rec 90-110% | 96.41 | 96.70 | 100.74 | 100.93 | 87.50 | 91.59 |
| ICVL | 0.15 | 1.72 | 0.17 | 1.73 | 0.15 | 0.14 |
| Rec 50-150% | 77.35 | 85.81 | 85.87 | 86.60 | 76.13 | 71.11 |
| Sample ID AB28814 | 0.05 | 87.34 | 0.30 | 23.94 | 4.20 | 5.82 |
| MS | 2.35 | 106.17 | 2.16 | 43.34 | 6.22 | 7.57 |
| Rec 80-120% | 115.25 | 94.15 | 92.96 | 96.99 | 101.00 | 87.47 |
| MSD | 2.35 | 103.30 | 2.25 | 42.77 | 6.07 | 7.33 |
| Rec 80-120% | 115.02 | 79.79 | 97.47 | 94.12 | 93.26 | 75.68 |
| Diff 10% | 0.19 | 2.74 | 4.10 | 1.33 | 2.52 | 3.16 |
| CCV | 1.88 | 19.34 | 2.02 | 20.36 | 1.76 | 1.84 |
| Rec 90-110% | 93.95 | 96.70 | 100.97 | 101.82 | 88.04 | 91.84 |
| Diff 10% | 2.58 | 0.00 | 0.23 | 0.88 | 0.61 | 0.27 |
| CCVB | 0.01 | 0.02 | 0.01 | 0.04 | 0.00 | 0.00 |



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<http://www.MBASinc.com>

Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 4/7/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1413 | 1414 | 100.1% | 95-105 | 1100 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB28815 | 1545 | 1556 | 0.7% | 10 | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 4/14/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|--------------|---------------|-------|-----------------------|-------|
| ICV | 40 | 41 | 103 | 95-105 | 9:49 |
| CCV | 40 | 40 | 100 | 95-105 | 11:27 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB28840 | 41 | 40 | 2.5 | 5 | 9:49 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 4/7/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.011 | --- | <0.05 | 913 |
| ICVL | 0.050 | 0.046 | 92 | 80-120 | 915 |
| ICV | 0.250 | 0.286 | 114.4 | 80-120 | 1011 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28815 | 0.035 | 0.250 | 0.268 | 0.27 | 93.2 | 94 | 0.7 | 80/120 | 10 | 932 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB28938

Date Analyzed
Monday, April 13, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|-------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 105.8 | 0.10 | 119.3 | 124.2 | 4.03 | 21.8 | 50 | 91.2 | 98.4 | 7.6 | 102.4 | 107.8 | 5.12 | 0.04 |
| Aluminum | 0.0 | 95.8 | 1.68 | 107.2 | 110.9 | 3.39 | 4.4 | 50 | 84.5 | 89.4 | 5.6 | 102.1 | 96.6 | 5.53 | -0.08 |
| Copper | 0.0 | 101.4 | 0.13 | 105.7 | 110.8 | 4.73 | 33.7 | 50 | 84.1 | 91.3 | 8.2 | 101.7 | 102.1 | 0.39 | 0.11 |
| Zinc | 0.1 | 106.7 | 1.24 | 113.5 | 120.1 | 5.65 | 71.7 | 50 | 85.4 | 95.3 | 11.0 | 101.5 | 106.2 | 4.50 | 0.29 |
| Arsenic | 0.1 | 100.0 | -0.04 | 100.9 | 107.2 | 6.10 | 4.7 | 50 | 99.1 | 105.1 | 5.9 | 100.7 | 102.5 | 1.73 | 0.05 |
| Strontium | 0.0 | 101.8 | 0.01 | 106.8 | 110.7 | 3.51 | 783.0 | 50 | -8.1 | 73.3 | 249.7 | 102.7 | 104.6 | 1.86 | 0.09 |
| Barium | 0.0 | 99.7 | 0.02 | 102.9 | 107.8 | 4.65 | 289.7 | 50 | 55.6 | 78.1 | 33.7 | 100.8 | 98.6 | 2.19 | 0.07 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 4/8/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.043 | 86.00% | 50-150 | 1100 |
| ICV | 0.500 | 0.450 | 90.00% | 90-110 | 1100 |
| CCVB1 | --- | 0.01 | --- | <0.05 | 1130 |
| CCV1 | 0.500 | 0.530 | 106.00% | 90-110 | 1130 |
| CCVB2 | --- | 0.02 | --- | <0.05 | 1130 |
| CCV2 | 0.500 | 0.550 | 110.00% | 90-110 | 1130 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28829 | 0.000 | 0.500 | 0.460 | 0.460 | 92 | 92 | 0.0 | 85-120 | 10 | 1100 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 4/6/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 15:31 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 15:31 |
| ICV | 0.10 | 0.09 | 90 | 90-110 | 15:31 |
| QCS | 0.10 | 0.10 | 100 | 80-120 | 15:31 |
| CCV | 0.10 | 0.10 | 100 | 80-120 | 15:31 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB28815 | 0.32 | 0.10 | 0.48 | 0.40 | 160 | 80 | 18 | 70-130 | 10 | 15:31 | 15:31 |

Note: MS was over the acceptance criteria. Data was accepted due recovery percents of LCSL, QCS, ICV and CCV.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Phosphorus QC Summary (Hach 8190)

Date: 4/13/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 14:06 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 14:06 |
| ICV | 1.00 | 0.97 | 97 | 90-110 | 14:06 |
| QCS | 1.00 | 0.96 | 96 | 80-120 | 14:06 |
| CCV | 1.00 | 0.98 | 98 | 80-120 | 14:06 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB29146 | 0.09 | 1.00 | 0.80 | 0.77 | 71 | 68 | 3.8 | 70-130 | 10 | 14:06 | 14:06 |

Note: MSD was lower than the acceptance criteria. Data was accepted due LCSL, ICV, QCS, CCV and MS recovery percents.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCSL = Laboratory Control Standard Low; QCS = Quality Control Standard;

ICV= Initial Calibration Verification, CCV= Continuing Calibration Verification, RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 4/14/2015

Time: 1600

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.050 | --- | <0.5 |
| LCS | 5.0 | 4.9 | 98 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB28806 | ND | 5.0 | 5.6 | 5.4 | 112 | 108 | 3.6 | 85-120 | 10 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150410

| Analyte/ WL | Range | IC Blank | Prep Blank | LCS Value | %Rec 85-115% | LCSD Value | %Rec 85-115% | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------------|---------------|--------------|-----------------|---------------|-----------------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | | | | | | | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.01 | 1.10 | 110.2% | 1.10 | 110.1% | 0.1% | 1 | 1.04 | 103.9% | 1 | 1.0 | 103.7% |
| B 249.772 | 0.05-5ppm | 0.00 | 0.00 | 1.09 | 109.5% | 1.09 | 109.1% | 0.3% | 1 | 1.04 | 104.2% | 1 | 1.0 | 103.8% |
| Fe 238.204 | 10ppb-100ppm | 1.35 | 1.67 | 1008 | 100.8% | 1006 | 100.6% | 0.2% | 1000 | 996 | 99.6% | 1000 | 982.1 | 98.2% |
| Fe 259.940 | 10ppb-100ppm | 2.08 | -0.68 | 1018 | 101.8% | 1017 | 101.7% | 0.1% | 1000 | 1003 | 100.3% | 1000 | 995.8 | 99.6% |
| K 766.491 | 0.5-750ppm | -0.10 | -0.11 | 10.8 | 108.0% | 10.8 | 108.3% | 0.2% | 10 | 10.6 | 105.6% | 10 | 10.2 | 102.2% |
| Mn 257.610 | 10ppb-11ppm | -0.93 | -1.34 | 1031 | 103.1% | 1029 | 102.9% | 0.2% | 1000 | 1002 | 100.2% | 1000 | 994.1 | 99.4% |
| Mn 260.568 | 10ppb-11ppm | -1.90 | -1.74 | 1032 | 103.2% | 1040 | 104.0% | 0.8% | 1000 | 1008 | 100.8% | 1000 | 994.0 | 99.4% |
| Si 251.611 | 0.5-200ppm | -0.01 | -0.09 | 52.2 | 104.4% | 51.9 | 103.9% | 0.5% | 50 | 49.9 | 99.9% | 50 | 50.5 | 101.0% |
| Si 252.411 | 0.5-200ppm | -0.02 | -0.01 | 52.0 | 104.1% | 51.9 | 103.9% | 0.2% | 50 | 49.8 | 99.6% | 50 | 50.4 | 100.7% |

Sample ID AB28818

| Analyte/ WL | Sample Value | MS Value | %Rec 70-130% | MSD Value | %Rec 70-130% | %Diff | CCV (90-110%) | | | %Diff 10% | CC Blank |
|----------------|-----------------|-------------|-----------------|--------------|-----------------|-------|---------------|--------|--------|--------------|-------------|
| | | | | | | | Value | Result | %Rec | | |
| B 249.678 | 2.25 | 3.26 | 100.9% | 3.24 | 98.1% | 0.9% | 1 | 1.10 | 109.7% | 5.4% | 0.01 |
| B 249.772 | 2.28 | 3.29 | 100.7% | 3.28 | 99.6% | 0.3% | 1 | 1.12 | 111.9% | 7.2% | 0.01 |
| Fe 238.204 | 12 | 1046 | 103.4% | 1035 | 102.3% | 1.1% | 1000 | 1069 | 106.9% | 7.0% | 1.56 |
| Fe 259.940 | 10 | 1064 | 105.3% | 1063 | 105.3% | 0.0% | 1000 | 1077 | 107.7% | 7.1% | 3.04 |
| K 766.491 | 2.8 | 14.0 | 111.8% | 13.6 | 108.4% | 2.4% | 10 | 11.3 | 112.6% | 6.4% | -0.13 |
| Mn 257.610 | 36 | 1087 | 105.1% | 1079 | 104.4% | 0.7% | 1000 | 1078 | 107.8% | 7.2% | -0.53 |
| Mn 260.568 | 37 | 1094 | 105.7% | 1088 | 105.1% | 0.5% | 1000 | 1088 | 108.8% | 7.6% | -0.75 |
| Si 251.611 | 17.4 | 69.7 | 104.7% | 69.3 | 103.8% | 0.6% | 50 | 53.7 | 107.4% | 7.3% | -0.01 |
| Si 252.411 | 17.2 | 69.1 | 103.7% | 68.5 | 102.6% | 0.8% | 50 | 53.1 | 106.2% | 6.4% | 0.07 |

Batch # 201500424

| Analyte/ WL | Range | IC Blank | Prep Blank | LCS Value | %Rec 85-115% | LCSD Value | %Rec 85-115% | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|------------|-------------|---------------|--------------|-----------------|---------------|-----------------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | | | | | | | | Value | Result | %Rec | Value | Result | %Rec |
| Ca 317.933 | 50-300ppm | -4.60 | -4.59 | 48.3 | 96.6% | 49.0 | 98.1% | 1.6% | 50 | 48.8 | 97.5% | 50 | 46.7 | 93.3% |
| Ca 396.847 | 0.5-50ppm | -0.30 | -0.29 | 49.1 | 98.1% | 50.2 | 100.4% | 2.3% | 50 | 49.5 | 99.0% | 50 | 48.3 | 96.5% |
| K 766.491 | 0.5-750ppm | 0.10 | 0.08 | 9.8 | 98.0% | 10.0 | 99.6% | 1.6% | 10 | 9.9 | 99.1% | 10 | 9.5 | 94.9% |
| Mg 202.582 | 50-1000ppm | -1.48 | -1.42 | 49.3 | 98.7% | 51.0 | 102.0% | 3.3% | 50 | 50.2 | 100.5% | 50 | 49.0 | 98.1% |
| Mg 279.078 | 0.5-50ppm | -0.05 | -0.10 | 48.7 | 97.3% | 49.7 | 99.4% | 2.1% | 50 | 49.4 | 98.8% | 50 | 47.5 | 95.0% |
| Na 568.821 | 50-1000ppm | 10.90 | 10.62 | 53.9 | 107.7% | 53.1 | 106.2% | 1.4% | 50 | 53.0 | 106.1% | 50 | 53.7 | 107.4% |
| Na 589.592 | 0.5-50ppm | 0.02 | 0.04 | 49.8 | 99.6% | 50.7 | 101.3% | 1.7% | 50 | 50.2 | 100.4% | 50 | 48.8 | 97.6% |

Sample ID AB29364

| Analyte/ WL | Sample Value | MS Value | %Rec 70-130% | MSD Value | %Rec 70-130% | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------------|-----------------|--------------|-----------------|-------|---------------|--------|--------|-------|-------|
| | | | | | | | Value | Result | %Rec | 10% | Blank |
| Ca 317.933 | 42.4 | 89.8 | 94.8% | 90.8 | 96.7% | 1.1% | 50 | 48.4 | 96.7% | 0.8% | -4.56 |
| Ca 396.847 | 43.3 | 83.1 | 79.5% | 84.8 | 82.8% | 2.0% | 50 | 48.5 | 97.0% | 2.0% | -0.27 |
| K 766.491 | 2.2 | 11.4 | 91.6% | 11.6 | 93.9% | 2.0% | 10 | 9.7 | 96.9% | 2.3% | 0.09 |
| Mg 202.582 | 25.5 | 72.6 | 94.2% | 74.4 | 97.9% | 2.5% | 50 | 50.6 | 101.2% | 0.7% | -1.45 |
| Mg 279.078 | 24.8 | 69.7 | 89.9% | 71.0 | 92.3% | 1.7% | 50 | 48.9 | 97.8% | 1.0% | -0.04 |
| Na 568.821 | 102.7 | 148.3 | 91.1% | 149.5 | 93.7% | 0.9% | 50 | 54.2 | 108.4% | 2.2% | 10.33 |
| Na 589.592 | 96.7 | 139.6 | 85.7% | 142.5 | 91.5% | 2.1% | 50 | 49.5 | 99.0% | 1.4% | 0.02 |

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

April 13, 2015

Ceres ID: 10633

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on April 8, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

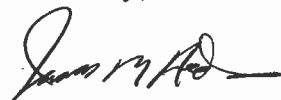
This work was authorized under M.B.A.'s Project # AB28815.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10633-001 | MW-6M (monitoring) | 4/8/2015 | 4/4/2015 8:55 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|------------------------|--------------------------|-------------------|---|------------|-----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB28815 | | Sample Size: | 1.000 L | QC Batch #: | 1310 | Date Extracted: | 9-Apr-15 |
| | | | | | ZB-5 MS Analysis Date: | 10-Apr-15 | | |
| Analyte | Conc. (pg/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standards | % R | LCL-UCL ^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.10 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 97.8 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 94.4 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | | Reviewed by: | BS | | |

| | | | | | | | |
|--|-------------------------|---------------------------|-------------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | |
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB28815 | Sample Size: | 1.000 L | QC Batch #: | 1310 | Date Extracted: | 9-Apr-15 |
| | | | | ZB-5 MS Analysis Date: | 10-Apr-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 10.3 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 104 | 25-141 | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 10.0 | 3.7-15.8 | |
| | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-6M (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10633-001 | | Date Received: 8-Apr-15 |
| Project: AB28815 | | | Sample Size: 0.997 L | | QC Batch #: 1310 | | Date Extracted: 9-Apr-15 |
| Date Collected: 4-Apr-15 | | | | | ZB-5 MS Analysis Date: 10-Apr-15 | | |
| Time Collected: 8:55 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.62 | | | IS ¹³ C-2,3,7,8-TCDD | 103 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 100 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

Chain of Custody

Ceres Use Only

Pg. ___ of ___

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: 10633
 Temperature: 2.6 °C

Reports and invoices will be delivered by email in .pdf format

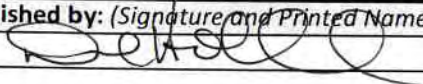
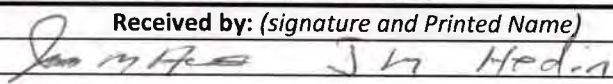
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|--|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | | Date | Time | | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| | | | | | | | | | | | | | Comments |
| 1 | MW-6M (monitoring) | 4/4/2015 | 855 | 0:00 | Aq | 2 | X | | | | | | AB28815 |
| 2 | | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | | Please include excel report |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|--|--------|-------|
| D. Holland  | 4/6/2015 | 16:00 |  J. M. Medina | 4/8/15 | 10:38 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|---|
| Ceres ID: 10633 | Date/Time: 4/8/15 10:38 |
| Client Project ID: AB 28815 | Received Temperature: 2.6°C Acceptable: <input checked="" type="radio"/> Y / N |
| Chain of Custody Relinquished by signed? | <input checked="" type="radio"/> Y / N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <input checked="" type="radio"/> NA |
| Unlabeled / Illegible Samples | Y / N |
| Proper Containers: | <input checked="" type="radio"/> Y / N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <input checked="" type="radio"/> Y / N |
| Drinking Water, Sodium Thiosulfate present? | Y / N <input checked="" type="radio"/> NA |
| List COC discrepancies: | 4/8/15 |
| List Damaged Samples: | 4/8/15 |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10633 PB: 1310 Sample #s: 1 Due Date: 4/22/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

- 1 Calibrate balance
- 2 Tare balance
- 3 Place Full sample bottle with cap on balance. Record weight as Sample+ Bottle Wt.
- 4 Weigh empty bottle and cap. Record as Bottle Wt.
- 5 Calculate sample Volume (assuming $1g = 1ml$) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample + Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|---------------------|------------------|---------------|
| 10633-1 | 1517.13g | 520.40g | 0.997 L |
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Chemist J Date 4/1/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|--------|-------------------|-------------------|-------------------|-------------------|----|-----------|----|-------------------|-------------------|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | chem/date/witness | chem/date/witness |
| 0-1310-MB001 | Method Blank | | 1.000L | J 4/9/15 NA | J 4/10/15 NA | NA | J 4/10/15 | NA | J 4/10/15 | NA | J 4/10/15 | NA |
| 0-1310-OPR001 | OPR | | 1.000L | (A) ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10633-1310-001 | MW-6M (monitoring) | ✓ | 0.997L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 15:00 4/9/15
 Soxhlet Stop: 07:25 4/10/15

Samples Logged out by: J 10:15 4/9/15
 Samples Returned by: NA
 Note samples Depleted: 1A

Sample Extracts Storage Location: Box 15
 Extracts to Instrument: 11:00 4/10/15 J
 Extracts returned to Storage Location: _____

Chemist: J

Method: 1613 B / 8290 A
SOP #: 301.1 / 302.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 10.2 | |
| NSS | B | ↓ | |
| CSS | C | ↓ | |
| RSS | D | 20.2 | |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|--------------------|----------|-----------|
| Toluene | 450 ml | 143616 | 2/5/16 |
| Hexanes | 20, 50, 100, 20 ml | 145782 | 2/5/16 |
| Si-gel | 4g | P031615A | 9/16/15 |
| Basic Gel | 4g | P021915A | 8/19/15 |
| Acid Gel | 8g | P021915B | 8/19/15 |
| Acid Al | 6g | P122314A | 6/23/15 |
| Na ₂ SO ₄ | 1.5g | P101614A | 4/16/15 |
| 20% Dec:Hex | 20 ml | L040115A | 10/1/15 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 04/24/15 08:10 |
| Attention: David Holland | Received Date: 04/08/15 09:05 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5D08011 | |

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

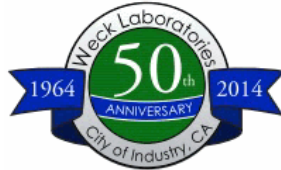
Dear David Holland :

Enclosed are the results of analyses for samples received 04/08/15 09:05 with the Chain of Custody document. The samples were received in good condition, at 1.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|-----------------------------|--------------|------------|--------|----------------|
| MW-6M(Monitoring) (AB28815) | Azad Khaligh | 5D08011-01 | Water | 04/04/15 08:55 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

5D08011-01 MW-6M(Monitoring)

Sampled: 04/04/15 08:55

Sampled By: Azad Khaligh

Matrix: Water

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5D0594

Prepared: 04/10/15 11:00

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------|-----------|-----|-------|-----|----------------|-----------|
| Iodide | 35 | 10 | ug/l | 1 | 04/10/15 12:24 | |

Chlorinated Pesticides and/or PCBs

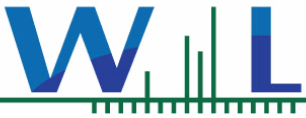
Method: EPA 508

Batch: W5D0533

Prepared: 04/10/15 08:18

Analyst: Maxwell Wang

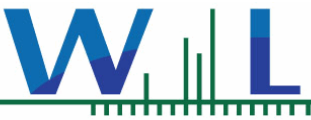
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--------------------------------------|--------------|--------------------|---------------|----------|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 04/15/15 03:10 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 04/15/15 03:10 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Endrin | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 04/15/15 03:10 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 04/15/15 03:10 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 04/15/15 03:10 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 04/15/15 03:10 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 04/15/15 03:10 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 04/15/15 03:10 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>112 %</i> | <i>Conc:0.112</i> | <i>70-130</i> | <i>%</i> | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>89 %</i> | <i>Conc:0.0891</i> | <i>70-130</i> | <i>%</i> | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

Anions by IC, EPA Method 9056 - Quality Control

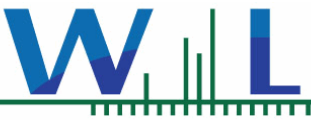
Batch W5D0594 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5D0594-BLK1) | | | | Analyzed: 04/10/15 13:38 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5D0594-BS1) | | | | Analyzed: 04/10/15 11:51 | | | | | | |
| Iodide | 39.6 | 10 | ug/l | 40.0 | | 99 | 85-115 | | | |
| Matrix Spike (W5D0594-MS1) | | | | Source: 5D08010-01 | | Analyzed: 04/10/15 13:08 | | | | |
| Iodide | 70.8 | 10 | ug/l | 40.0 | 35.5 | 88 | 80-120 | | | |
| Matrix Spike Dup (W5D0594-MSD1) | | | | Source: 5D08010-01 | | Analyzed: 04/10/15 13:23 | | | | |
| Iodide | 70.1 | 10 | ug/l | 40.0 | 35.5 | 86 | 80-120 | 1 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0533-BLK1) | | | | Analyzed: 04/14/15 13:22 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0533-BLK1) | | | | | | | | | | |
| Analyzed: 04/14/15 13:22 | | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| Surr: Decachlorobiphenyl | 0.118 | | ug/l | 0.100 | | 118 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0695 | | ug/l | 0.100 | | 70 | 70-130 | | | |
| LCS (W5D0533-BS1) | | | | | | | | | | |
| Analyzed: 04/14/15 13:52 | | | | | | | | | | |
| 4,4'-DDD | 0.136 | 0.010 | ug/l | 0.100 | | 136 | 55-142 | | | |
| 4,4'-DDE | 0.118 | 0.010 | ug/l | 0.100 | | 118 | 49-129 | | | |
| 4,4'-DDT | 0.133 | 0.010 | ug/l | 0.100 | | 133 | 54-160 | | | |
| Aldrin | 0.0738 | 0.010 | ug/l | 0.100 | | 74 | 29-115 | | | |
| alpha-BHC | 0.110 | 0.010 | ug/l | 0.100 | | 110 | 59-131 | | | |
| beta-BHC | 0.131 | 0.010 | ug/l | 0.100 | | 131 | 63-136 | | | |
| delta-BHC | 0.138 | 0.010 | ug/l | 0.100 | | 138 | 59-137 | | | Q-08 |
| Dieldrin | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 59-135 | | | |
| Endosulfan I | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 28-138 | | | |
| Endosulfan II | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 53-133 | | | |
| Endosulfan sulfate | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 58-155 | | | |
| Endrin | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 57-148 | | | |
| Endrin aldehyde | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 59-129 | | | |
| Heptachlor | 0.0963 | 0.010 | ug/l | 0.100 | | 96 | 42-136 | | | |
| Heptachlor epoxide | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 59-134 | | | |
| Methoxychlor | 0.0847 | 0.010 | ug/l | 0.100 | | 85 | 56-167 | | | |
| Surr: Decachlorobiphenyl | 0.116 | | ug/l | 0.100 | | 116 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0704 | | ug/l | 0.100 | | 70 | 70-130 | | | |
| LCS (W5D0533-BS2) | | | | | | | | | | |
| Analyzed: 04/14/15 17:27 | | | | | | | | | | |
| Aroclor 1016 | 1.23 | 0.10 | ug/l | 1.00 | | 123 | 49-152 | | | |
| Aroclor 1260 | 1.24 | 0.10 | ug/l | 1.00 | | 124 | 52-146 | | | |
| Surr: Decachlorobiphenyl | 0.133 | | ug/l | 0.100 | | 133 | 70-130 | | | S-11 |
| Surr: Tetrachloro-meta-xylene | 0.0753 | | ug/l | 0.100 | | 75 | 70-130 | | | |
| LCS Dup (W5D0533-BSD1) | | | | | | | | | | |
| Analyzed: 04/14/15 14:23 | | | | | | | | | | |
| 4,4'-DDD | 0.147 | 0.010 | ug/l | 0.100 | | 147 | 55-142 | 8 | 25 | Q-08 |
| 4,4'-DDE | 0.128 | 0.010 | ug/l | 0.100 | | 128 | 49-129 | 8 | 25 | |
| 4,4'-DDT | 0.148 | 0.010 | ug/l | 0.100 | | 148 | 54-160 | 10 | 25 | |
| Aldrin | 0.0843 | 0.010 | ug/l | 0.100 | | 84 | 29-115 | 13 | 25 | |
| alpha-BHC | 0.118 | 0.010 | ug/l | 0.100 | | 118 | 59-131 | 7 | 25 | |
| beta-BHC | 0.138 | 0.010 | ug/l | 0.100 | | 138 | 63-136 | 5 | 25 | Q-08 |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0533 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS Dup (W5D0533-BSD1) | | | | Analyzed: 04/14/15 14:23 | | | | | | |
| delta-BHC | 0.142 | 0.010 | ug/l | 0.100 | | 142 | 59-137 | 3 | 25 | Q-08 |
| Dieldrin | 0.123 | 0.010 | ug/l | 0.100 | | 123 | 59-135 | 8 | 25 | |
| Endosulfan I | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 28-138 | 7 | 25 | |
| Endosulfan II | 0.117 | 0.010 | ug/l | 0.100 | | 117 | 53-133 | 8 | 25 | |
| Endosulfan sulfate | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 58-155 | 8 | 25 | |
| Endrin | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 57-148 | 8 | 25 | |
| Endrin aldehyde | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 45-139 | 13 | 25 | |
| gamma-BHC (Lindane) | 0.122 | 0.010 | ug/l | 0.100 | | 122 | 59-129 | 7 | 25 | |
| Heptachlor | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 42-136 | 8 | 25 | |
| Heptachlor epoxide | 0.119 | 0.010 | ug/l | 0.100 | | 119 | 59-134 | 7 | 25 | |
| Methoxychlor | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 56-167 | 25 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.124 | | ug/l | 0.100 | | 124 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0716 | | ug/l | 0.100 | | 72 | 70-130 | | | |
| LCS Dup (W5D0533-BSD2) | | | | Analyzed: 04/14/15 17:58 | | | | | | |
| Aroclor 1016 | 1.17 | 0.10 | ug/l | 1.00 | | 117 | 49-152 | 5 | 25 | |
| Aroclor 1260 | 1.20 | 0.10 | ug/l | 1.00 | | 120 | 52-146 | 3 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.122 | | ug/l | 0.100 | | 122 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0730 | | ug/l | 0.100 | | 73 | 70-130 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/08/15 09:05
Date Reported: 04/24/15 08:10

Notes and Definitions

| | |
|--------------|---|
| S-11 | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| Q-08 | High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5D0721

4/21/2015

Invoice: A508082

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5D0721 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/8/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montieth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montieth , at (800) 877-8310 or (559) 497-2888 x201.



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 4/08/2015 - 09:30 Report Due: 4/22/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 0.3 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Packing Material - Other Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- CV0.0 CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS2.1 MS/MSD RPD exceeds control limit. Reportable results in parent sample may have some degree of variability, higher than that inherent in the method.
- SR2.0 Surrogate recovery exceeds lower control limit due to matrix interference as confirmed by re-analysis. Associated results should be considered biased low.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5D0721-01
Sampled By: Azad Khaligh
Sample Description: MW-6M (monitoring) // AB28815

Sample Date - Time: 04/04/15 - 08:55
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A504110 | 04/14/15 | 04/15/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A504110 | 04/14/15 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 104 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503970 | 04/09/15 | 04/11/15 | |
| Surrogate: DCPAA | EPA 515.3 | 97 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |

Certificate of Analysis

Sample ID: A5D0721-01
Sampled By: Azad Khaligh
Sample Description: MW-6M (monitoring) // AB28815

Sample Date - Time: 04/04/15 - 08:55
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|----------------------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | BS1.0, CV0.0 |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503993 | 04/10/15 | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 91 % | | | | | | | Acceptable range: 70-130 % |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 97 % | | | | | | | Acceptable range: 70-130 % |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5D0721-01
Sampled By: Azad Khaligh
Sample Description: MW-6M (monitoring) // AB28815

Sample Date - Time: 04/04/15 - 08:55
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Semi-Volatile Organics by GC-MS | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503868 | 04/08/15 | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 102 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Carbamates by HPLC | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | BS1.0 |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503881 | 04/09/15 | 04/09/15 | |
| Glyphosate by HPLC | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A503998 | 04/10/15 | 04/10/15 | |
| Surrogate: AMPA | EPA 547 | 90 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Endothall by GC-MS | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A504033 | 04/10/15 | 04/12/15 | |
| Diquat by HPLC | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A503930 | 04/09/15 | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A504110

Prepared: 04/14/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A504110-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.52 | | | 0.46 | | 115 | 70-130 | | | 04/15/15 | |

Blank Spike (A504110-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | | 104 | 70-130 | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 98 | 70-130 | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.49 | | | 0.46 | | 107 | 70-130 | | | 04/15/15 | |

Blank Spike Dup (A504110-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | | 108 | 70-130 | 4 | 20 | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 101 | 70-130 | 3 | 20 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 105 | 70-130 | | | 04/15/15 | |

Matrix Spike (A504110-MS1), Source: A5D0983-02

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | ND | 108 | 65-135 | | | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 101 | 65-135 | | | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.50 | | | 0.46 | | 107 | 70-130 | | | 04/15/15 | |

Matrix Spike Dup (A504110-MSD1), Source: A5D0983-02

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | ND | 104 | 65-135 | 5 | 20 | 04/15/15 | |
| Ethylene Dibromide (EDB) | 0.21 | 0.020 | ug/L | 0.20 | ND | 104 | 65-135 | 1 | 20 | 04/15/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 102 | 70-130 | | | 04/15/15 | |

EPA 515.3 - Quality Control

Batch: A503970

Prepared: 04/09/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A503970-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 04/10/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 04/10/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 99 | 70-130 | | | 04/10/15 | |

Blank Spike (A503970-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | | 102 | 70-130 | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.82 | 1.0 | ug/L | 0.80 | | 103 | 70-130 | | | 04/10/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | | 105 | 70-130 | | | 04/10/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | | 97 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A503970

Prepared: 04/09/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A503970-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 3.9 | 10 | ug/L | 4.0 | | 96 | 70-130 | | | 04/10/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | | 101 | 70-130 | | | 04/10/15 | |
| Dinoseb | 0.75 | 2.0 | ug/L | 0.80 | | 94 | 70-130 | | | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 95 | 70-130 | | | 04/10/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | | 97 | 70-130 | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503970-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | | 102 | 70-130 | 0 | 20 | 04/11/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | | 103 | 70-130 | 1 | 20 | 04/11/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | | 108 | 70-130 | 3 | 20 | 04/11/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | | 97 | 70-130 | 0 | 20 | 04/11/15 | |
| Dalapon | 3.8 | 10 | ug/L | 4.0 | | 95 | 70-130 | 1 | 20 | 04/11/15 | |
| Dicamba | 5.8 | 1.5 | ug/L | 6.0 | | 97 | 70-130 | 3 | 20 | 04/11/15 | |
| Dinoseb | 0.78 | 2.0 | ug/L | 0.80 | | 98 | 70-130 | 4 | 20 | 04/11/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 93 | 70-130 | 2 | 20 | 04/11/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 99 | 70-130 | 2 | 20 | 04/11/15 | |
| Surrogate: DCPAA | 55 | | | 58 | | 95 | 70-130 | | | 04/11/15 | |

Matrix Spike (A503970-MS1), Source: A5D0701-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | ND | 102 | 70-130 | | | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.80 | 1.0 | ug/L | 0.80 | ND | 100 | 70-130 | | | 04/10/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | ND | 104 | 70-130 | | | 04/10/15 | |
| Bentazon | 7.8 | 2.0 | ug/L | 8.0 | ND | 97 | 70-130 | | | 04/10/15 | |
| Dalapon | 4.2 | 10 | ug/L | 4.0 | ND | 105 | 70-130 | | | 04/10/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | ND | 99 | 70-130 | | | 04/10/15 | |
| Dinoseb | 0.75 | 2.0 | ug/L | 0.80 | ND | 94 | 70-130 | | | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 96 | 70-130 | | | 04/10/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | ND | 98 | 70-130 | | | 04/10/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 04/10/15 | |

Matrix Spike Dup (A503970-MSD1), Source: A5D0701-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 3.9 | 1.0 | ug/L | 4.0 | ND | 99 | 70-130 | 4 | 20 | 04/10/15 | |
| 2,4,5-TP (Silvex) | 0.79 | 1.0 | ug/L | 0.80 | ND | 98 | 70-130 | 2 | 20 | 04/10/15 | |
| 2,4-D | 0.39 | 10 | ug/L | 0.40 | ND | 98 | 70-130 | 5 | 20 | 04/10/15 | |
| Bentazon | 7.5 | 2.0 | ug/L | 8.0 | ND | 93 | 70-130 | 4 | 20 | 04/10/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | ND | 100 | 70-130 | 5 | 20 | 04/10/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | ND | 98 | 70-130 | 1 | 20 | 04/10/15 | |
| Dinoseb | 0.73 | 2.0 | ug/L | 0.80 | ND | 91 | 70-130 | 3 | 20 | 04/10/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 92 | 70-130 | 4 | 20 | 04/10/15 | |
| Picloram | 0.37 | 1.0 | ug/L | 0.40 | ND | 91 | 70-130 | 7 | 20 | 04/10/15 | |
| Surrogate: DCPAA | 56 | | | 58 | | 97 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503993-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503993-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 04/10/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.4 | | | 5.0 | | 87 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 47 | | | 50 | | 93 | 70-130 | | | 04/10/15 | |

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| 1,2,3-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,2,4-Trimethylbenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 04/10/15 | |
| 1,2-Dichlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,3,5-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 1,3-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/10/15 | |
| 1,4-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| 2-Butanone | 11 | 5.0 | ug/L | 10 | | 113 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|---------|
| 2-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| 4-Chlorotoluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | | 105 | 70-130 | | | 04/10/15 | |
| Acetone | 11 | 10 | ug/L | 10 | | 114 | 70-130 | | | 04/10/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| Bromobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| Bromochloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 04/10/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | | | 04/10/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| Chlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| Chloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Chloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Dichlorodifluoromethane | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 04/10/15 | |
| Dichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| Ethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/10/15 | |
| Hexachlorobutadiene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| Isopropylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/10/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 96 | 70-130 | | | 04/10/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 04/10/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| n-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/10/15 | |
| n-Propylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 04/10/15 | |
| o-Xylene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| p-Isopropyltoluene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 04/10/15 | |
| sec-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| Styrene | 16 | 0.50 | ug/L | 10 | | 156 | 70-130 | | | 04/10/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 10 | 3.0 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| tert-Butyl alcohol (TBA) | 11 | 2.0 | ug/L | 10 | | 112 | 70-130 | | | 04/10/15 | |
| tert-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| Tetrachloroethene (PCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/10/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/10/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/10/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/10/15 | |
| Trichloroethene (TCE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/10/15 | |
| Trichlorofluoromethane | 9.4 | 5.0 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A503993-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Vinyl Chloride | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 98 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503993-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,1,1-Trichloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 6 | 30 | 04/10/15 | |
| 1,1,2,2-Tetrachloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.2 | 10 | ug/L | 10 | | 92 | 70-130 | 8 | 30 | 04/10/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,1-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,1-Dichloroethene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,1-Dichloropropene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 6 | 30 | 04/10/15 | |
| 1,2,3-Trichlorobenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,2,4-Trimethylbenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 4 | 30 | 04/10/15 | |
| 1,2-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 04/10/15 | |
| 1,2-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| 1,3-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,3-Dichloropropane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| 1,4-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 2,2-Dichloropropane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 100 | 70-130 | 12 | 30 | 04/10/15 | |
| 2-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 04/10/15 | |
| 2-Hexanone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | 7 | 30 | 04/10/15 | |
| 4-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| 4-Methyl-2-pentanone | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | 6 | 30 | 04/10/15 | |
| Acetone | 10 | 10 | ug/L | 10 | | 103 | 70-130 | 10 | 30 | 04/10/15 | |
| Benzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromochloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 04/10/15 | |
| Bromodichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| Bromoform | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 5 | 30 | 04/10/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | 1 | 30 | 04/10/15 | |
| Carbon Tetrachloride | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 5 | 30 | 04/10/15 | |
| Chlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 04/10/15 | |
| Chloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/10/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| Chloromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 04/10/15 | |
| cis-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 04/10/15 | |
| cis-1,3-Dichloropropene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 04/10/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503993

Prepared: 04/10/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A503993-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|----|----|----------|---------|
| Dichlorodifluoromethane | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 4 | 30 | 04/10/15 | |
| Dichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 04/10/15 | |
| Di-isopropyl ether (DIPE) | 9.8 | 3.0 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/10/15 | |
| Ethylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 04/10/15 | |
| Hexachlorobutadiene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 7 | 30 | 04/10/15 | |
| Isopropylbenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| m,p-Xylenes | 18 | 0.50 | ug/L | 20 | | 92 | 70-130 | 4 | 30 | 04/10/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 2 | 30 | 04/10/15 | |
| Naphthalene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| n-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 5 | 30 | 04/10/15 | |
| n-Propylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 3 | 30 | 04/10/15 | |
| o-Xylene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 3 | 30 | 04/10/15 | |
| p-Isopropyltoluene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 04/10/15 | |
| sec-Butylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 04/10/15 | |
| Styrene | 15 | 0.50 | ug/L | 10 | | 153 | 70-130 | 2 | 30 | 04/10/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 9.9 | 3.0 | ug/L | 10 | | 99 | 70-130 | 4 | 30 | 04/10/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 102 | 70-130 | 10 | 30 | 04/10/15 | |
| tert-Butylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 04/10/15 | |
| Tetrachloroethene (PCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 04/10/15 | |
| Toluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 04/10/15 | |
| trans-1,2-Dichloroethene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 5 | 30 | 04/10/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/10/15 | |
| Trichloroethene (TCE) | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 04/10/15 | |
| Trichlorofluoromethane | 9.1 | 5.0 | ug/L | 10 | | 91 | 70-130 | 3 | 30 | 04/10/15 | |
| Vinyl Chloride | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 04/10/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 99 | 70-130 | | | 04/10/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 04/10/15 | |

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A503868-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 04/10/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 04/10/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 04/10/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 04/10/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A503868-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Molinate | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 04/10/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 04/10/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.5 | | | 5.0 | | 110 | 70-130 | | | 04/10/15 | |

Blank Spike (A503868-BS1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 105 | 70-130 | | | 04/10/15 | |
| Atrazine | 0.54 | 0.50 | ug/L | 0.50 | | 108 | 70-130 | | | 04/10/15 | |
| Benzo(a)pyrene | 0.076 | 0.10 | ug/L | 0.10 | | 76 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 106 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 112 | 70-130 | | | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | | 110 | 70-130 | | | 04/10/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 105 | 70-130 | | | 04/10/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.20 | | 93 | 70-130 | | | 04/10/15 | |
| Dimethoate | 0.78 | 10 | ug/L | 1.0 | | 78 | 70-130 | | | 04/10/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 110 | 70-130 | | | 04/10/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | | 109 | 70-130 | | | 04/10/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 104 | 70-130 | | | 04/10/15 | |
| Prometryn | 2.2 | 2.0 | ug/L | 2.0 | | 109 | 70-130 | | | 04/10/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | | | 04/10/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 103 | 70-130 | | | 04/10/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 104 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 109 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503868-BSD1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | | 102 | 70-130 | 4 | 30 | 04/10/15 | |
| Atrazine | 0.46 | 0.50 | ug/L | 0.50 | | 92 | 70-130 | 16 | 30 | 04/10/15 | |
| Benzo(a)pyrene | 0.092 | 0.10 | ug/L | 0.10 | | 92 | 70-130 | 19 | 30 | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 109 | 70-130 | 3 | 30 | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 109 | 70-130 | 3 | 30 | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | | 107 | 70-130 | 3 | 30 | 04/10/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 102 | 70-130 | 4 | 30 | 04/10/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | | 88 | 70-130 | 5 | 30 | 04/10/15 | |
| Dimethoate | 0.78 | 10 | ug/L | 1.0 | | 78 | 70-130 | 0 | 30 | 04/10/15 | |
| Metolachlor | 2.0 | 0.50 | ug/L | 2.0 | | 102 | 70-130 | 7 | 30 | 04/10/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | | 106 | 70-130 | 3 | 30 | 04/10/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 102 | 70-130 | 2 | 30 | 04/10/15 | |
| Prometryn | 2.0 | 2.0 | ug/L | 2.0 | | 101 | 70-130 | 8 | 30 | 04/10/15 | |
| Propachlor | 0.52 | 0.50 | ug/L | 0.50 | | 105 | 70-130 | 2 | 30 | 04/10/15 | |
| Simazine | 0.33 | 1.0 | ug/L | 0.35 | | 95 | 70-130 | 8 | 30 | 04/10/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.50 | | 101 | 70-130 | 3 | 30 | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 103 | 70-130 | | | 04/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A503868

Prepared: 04/08/2015

Prep Method: EPA 525.2

Analyst: KHH

Matrix Spike (A503868-MS1), Source: A5D0483-01

| | | | | | | | | | | | |
|--|-------|------|------|------|----|-----|--------|--|--|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | ND | 101 | 70-130 | | | 04/10/15 | |
| Atrazine | 0.48 | 0.50 | ug/L | 0.50 | ND | 95 | 70-130 | | | 04/10/15 | |
| Benzo(a)pyrene | 0.084 | 0.10 | ug/L | 0.10 | ND | 84 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.0 | 3.0 | ug/L | 2.0 | ND | 98 | 70-130 | | | 04/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 112 | 70-130 | | | 04/10/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | ND | 111 | 70-130 | | | 04/10/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | ND | 101 | 70-130 | | | 04/10/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | ND | 98 | 70-130 | | | 04/10/15 | |
| Dimethoate | 0.93 | 10 | ug/L | 1.0 | ND | 93 | 70-130 | | | 04/10/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 105 | 70-130 | | | 04/10/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 1.0 | ND | 104 | 70-130 | | | 04/10/15 | |
| Molinate | 0.96 | 2.0 | ug/L | 1.0 | ND | 96 | 70-130 | | | 04/10/15 | |
| Prometryn | 2.2 | 2.0 | ug/L | 2.0 | ND | 108 | 70-130 | | | 04/10/15 | |
| Propachlor | 0.52 | 0.50 | ug/L | 0.50 | ND | 104 | 70-130 | | | 04/10/15 | |
| Simazine | 0.39 | 1.0 | ug/L | 0.35 | ND | 101 | 70-130 | | | 04/10/15 | |
| Thiobencarb | 0.51 | 1.0 | ug/L | 0.50 | ND | 102 | 70-130 | | | 04/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 102 | 70-130 | | | 04/10/15 | |

EPA 531.1 - Quality Control

Batch: A503881

Prepared: 04/09/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A503881-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 04/09/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 04/09/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 04/09/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 04/09/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 04/09/15 | |

Blank Spike (A503881-BS1)

| | | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|----|------|
| 3-Hydroxycarbofuran | 4.9 | 3.0 | ug/L | 4.0 | | 122 | 80-120 | | | 04/09/15 | BS | High |
| Aldicarb | 4.7 | 3.0 | ug/L | 4.0 | | 116 | 80-120 | | | 04/09/15 | | |
| Aldicarb Sulfone | 5.0 | 2.0 | ug/L | 4.0 | | 124 | 80-120 | | | 04/09/15 | BS | High |
| Aldicarb Sulfoxide | 5.0 | 3.0 | ug/L | 4.0 | | 126 | 80-120 | | | 04/09/15 | BS | High |
| Carbaryl | 4.8 | 5.0 | ug/L | 4.0 | | 121 | 80-120 | | | 04/09/15 | BS | High |
| Carbofuran | 4.8 | 5.0 | ug/L | 4.0 | | 121 | 80-120 | | | 04/09/15 | BS | High |
| Methiocarb | 4.7 | 2.0 | ug/L | 4.0 | | 119 | 80-120 | | | 04/09/15 | | |
| Methomyl | 5.1 | 2.0 | ug/L | 4.0 | | 129 | 80-120 | | | 04/09/15 | BS | High |
| Oxamyl | 5.0 | 20 | ug/L | 4.0 | | 124 | 80-120 | | | 04/09/15 | BS | High |
| Propoxur | 4.7 | 2.0 | ug/L | 4.0 | | 117 | 80-120 | | | 04/09/15 | | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A503881

Prepared: 04/09/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike Dup (A503881-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 4.4 | 3.0 | ug/L | 4.0 | | 109 | 80-120 | 11 | 20 | 04/09/15 | |
| Aldicarb | 4.5 | 3.0 | ug/L | 4.0 | | 113 | 80-120 | 3 | 20 | 04/09/15 | |
| Aldicarb Sulfone | 4.5 | 2.0 | ug/L | 4.0 | | 112 | 80-120 | 10 | 20 | 04/09/15 | |
| Aldicarb Sulfoxide | 4.5 | 3.0 | ug/L | 4.0 | | 113 | 80-120 | 11 | 20 | 04/09/15 | |
| Carbaryl | 4.5 | 5.0 | ug/L | 4.0 | | 113 | 80-120 | 7 | 20 | 04/09/15 | |
| Carbofuran | 4.4 | 5.0 | ug/L | 4.0 | | 111 | 80-120 | 9 | 20 | 04/09/15 | |
| Methiocarb | 4.3 | 2.0 | ug/L | 4.0 | | 108 | 80-120 | 9 | 20 | 04/09/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | | 111 | 80-120 | 15 | 20 | 04/09/15 | |
| Oxamyl | 4.5 | 20 | ug/L | 4.0 | | 112 | 80-120 | 10 | 20 | 04/09/15 | |
| Propoxur | 4.4 | 2.0 | ug/L | 4.0 | | 110 | 80-120 | 6 | 20 | 04/09/15 | |

EPA 547 - Quality Control

Batch: A503998

Prepared: 04/10/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A503998-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 04/10/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 114 | 70-130 | | | 04/10/15 | |

Blank Spike (A503998-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 130 | 25 | ug/L | 100 | | 130 | 70-130 | | | 04/10/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 116 | 70-130 | | | 04/10/15 | |

Blank Spike Dup (A503998-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|---|----|----------|--|
| Glyphosate | 130 | 25 | ug/L | 100 | | 130 | 70-130 | 0 | 30 | 04/10/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 116 | 70-130 | | | 04/10/15 | |

Matrix Spike (A503998-MS1), Source: A5D0924-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|------------|
| Glyphosate | 180 | 25 | ug/L | 100 | ND | 161 | 70-130 | | | 04/10/15 | MS1.0 High |
| Surrogate: AMPA | 21 | | | 100 | | 21 | 70-130 | | | 04/10/15 | SR2.0 |

Matrix Spike Dup (A503998-MSD1), Source: A5D0924-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|-------|
| Glyphosate | 120 | 25 | ug/L | 100 | ND | 101 | 70-130 | 41 | 30 | 04/10/15 | MS2.1 |
| Surrogate: AMPA | 86 | | | 100 | | 84 | 70-130 | | | 04/10/15 | |

EPA 548.1 - Quality Control

Batch: A504033

Prepared: 04/10/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank (A504033-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 04/12/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A504033-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 91 | 54-105 | | | 04/12/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A504033

Prepared: 04/10/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank Spike Dup (A504033-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|---|----|----------|--|
| Endothall | 17 | 45 | ug/L | 20 | | 86 | 54-105 | 6 | 46 | 04/12/15 | |
|-----------|----|----|------|----|--|----|--------|---|----|----------|--|

Matrix Spike (A504033-MS1), Source: A5D0720-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|
| Endothall | ND | 45 | ug/L | 20 | ND | 0 | 54-105 | | | 04/12/15 | MS1.0 Low |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|

EPA 549.2 - Quality Control

Batch: A503930

Prepared: 04/09/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A503930-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 04/10/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A503930-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | | 87 | 70-130 | | | 04/10/15 | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A503930-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | | 86 | 70-130 | 0 | 30 | 04/10/15 | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|

Matrix Spike (A503930-MS1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | ND | 85 | 70-130 | | | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Matrix Spike Dup (A503930-MSD1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | ND | 88 | 70-130 | 3 | 30 | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-14 |

Sacramento

State of California - ELAP 2435

Vancouver

State of Oregon - NELAC WA100008 State of Washington C824-13



A5D0721



04082015

Monte6227

Turnaround: Standard
Due Date: 4/22/2015



Monterey Bay Analytical




1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

D. 3

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ASD0721
 Monte6227

 04/08/2015
 10

*Required Fields Temp:

Company/Client Name*: Monterey Bay Analytical Services
 Report Attention*: Mason Weidner-Holland
 Additional cc's: David Holland
 Invoice To*: David Holland
 PO#:
 State*: CA Zip*: 93940
 Phone*: 831-375-6227 Fax: 831-641-0734
 E-mail*: mweidner@mbasinc.com, dholland@mbasinc.com

Address*: 4 Justin Court, Suite D
 City*: Monterey
 Project #:
 How would you like to receive your completed results? E-Mail Fax Mail

Project: Cal Am
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 Regulatory Carbon Copies: SWRCB (Drinking Water) Fresno Co Madera Co Tulare Co
 Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number*: _____
 Geotracker #: _____

Sampler Name (Printed/Signature)*: Azad Khaligian
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: _____

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX | EPA 524 inc. MTBE | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|---|---------------------|----------|------|---------|---------------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Date | Time | | | | | | | | | | |
| 1 | MW-6M (monitoring) | 4/4/15 | 0855 | GW | AB28815 | X | X | X | X | X | X | X | X |

Please include excel report

Relinquished by: (Signature and Printed Name) *[Signature]* Company MBAS Date 4/7/15 Time 1600
 Received by: (Signature and Printed Name)
 Relinquished by: (Signature and Printed Name) Company _____ Date _____ Time _____
 Received by: (Signature and Printed Name) Company _____ Date _____ Time _____

Received for Lab by: (Signature and Printed Name) *[Signature]* Date 4/8/15 Time 9:30
 Payment Received at Delivery: _____ Date: _____

Shipping Method: UPS None
 Cooling Method: Wet Blue
 GSO WALK-IN FED EX Counter: _____
 Custody Seal: Y N
 Chilling Process Begun: N
 Amount: _____ P/A#: _____ Check / Cash _____ Init. *[Signature]*

Payment for services rendered as noted herein are due in full within 30 days from the date involved. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for Laboratory Services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No

Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | | Were correct containers and preservatives received for the tests requested? | | | | |
|---|--|---|---|---|---|--------------------|----|----|
| | | Yes | No | NA | Yes | No | NA | |
| | Bottles Received | If samples were taken today, is there evidence that chilling has begun? | | | Were there bubbles in the VOA vials? (Volatiles Only) | | | |
| | | | Yes | No | NA | Yes | No | NA |
| | | Did all bottles arrive unbroken and intact? | | | Was a sufficient amount of sample received? | | | |
| | | Yes | No | | Yes | No | | |
| Did all bottle labels agree with COC? | | | Do samples have a hold time <72 hours? | | | | | |
| | Yes | No | | Yes | No | | | |
| Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | | | | |
| | Yes | No | NA | Yes | No | NA | | |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | |
| | None (P) ^{White Cap} | — | — | | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | pH > 8 | Y N | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y N | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y N | | | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y N | | | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH >10 | Y N | | | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y N | | | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | 2C | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | 1C | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | 1/2A | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | Y N | 1V | | | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | | |
| | HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | — | — | 3V | | | | |
| | Buffer pH 4 (CG) | — | — | | | | | |
| | None (CG) | — | — | | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | |
| | Other: | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | |
| Low Level Hg / Metals Double Baggie | — | — | | | | | | |
| Bottled Water | — | — | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | | |
| | S P | | | S P | | | | |
| | S P | | | S P | | | | |
| Comments | | | | | | | | |
| | | | | | | | | |

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|--|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | | |
| Field Parameters: | | | | | | | | | | | |
| Temp: | | | | | | | | | | | |
| pH: | | | | | | | | | | | |
| Sp Cond: | | | | | | | | | | | |
| Turb: | | | | | | | | | | | |

| | | | | | |
|--|---|----------------------|---------------------|----------|------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | | | | |
| Attn: Travis Peterson (CalAm) | Drinking water [] | Wastewater [] | Monitoring Well [X] | Soil [] | Sludge [] |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | | | | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 | | | |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|------|--|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 28815 | MIPWSP | MW-6m | 4/4/15 | 3:55 | 16.8° | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|---------------|-----------|--------|------|---|
| Sampled by: | AZAD KHALIGHI | | 4/4/15 | | Is sample for regulatory purposes? Yes / No S.C. = 1,531 uS/cm C. = 1,307 uS/cm TDS = 1,046 mg/L PH = 7.43 Turbidity = 0.70 NTU |
| Relinquished by: | | | | | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | TERREN CHANG | | 4/4/15 | 1053 | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

SEE ATTACHED LIST OF ANALYSIS.

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L 6PII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| <i>Volatile Organic Compounds</i> | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| <i>EPA Organic Methods</i> | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$ YES NO NA <2 Hr Is there evidence of chilling? YES NO NA
 Did bottles arrive intact? YES NO NA
 Did bottle labels agree with COC? YES NO NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Comments

2mL 1:1 HNO₃ to each 125mL LJ 4/6/15
 TC 4/4/15
 1L vacuum filtered +divided 500mL + H₂SO₄ + Na₂S₂O₃ for diss. TKN
 0.45 μ membrane 250mL + H₂SO₄ for diss. TP
 250mL NP for diss. color orthophosphate



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ph: 831-646-3259 / 831-646-3269
Susy Jacobson

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831.375.MBAS
www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB28762

Collection Date/Time: 4/2/2015 11:44 Sample Collector: KHALIGHI A
Submittal Date/Time: 4/2/2015 11:44 Sample ID

Sample Description: MW-6D

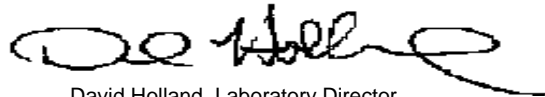
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|----------------------------------|---------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 117 | | 2 | 4/3/2015 | LJ |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 4/3/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 4/3/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 3 | | 1 | 4/3/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 255 | | 10 | 4/3/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 143 | | 10 | 4/3/2015 | LJ |
| Boron, Dissolved | EPA200.7 | mg/L | Not Detected | | 0.5 | 4/10/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 2 | | 0.2 | 4/2/2015 | TC |
| Calcium | EPA200.7 | mg/L | 341 | | 5 | 4/24/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 347 | | 5 | 4/24/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 4/9/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 4/3/2015 | LJ |
| Chloride, Dissolved | EPA300.0 | mg/L | 814 | | 2 | 4/2/2015 | TC |
| Chlorinated Pesticides and PCB (| EPA508 | µg/L | Not Detected | E | | 4/9/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 5 | | 3 | 4/2/2015 | LJ |
| Copper, Total | EPA200.8 | µg/L | 8 | | 4 | 4/3/2015 | SM |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 4/9/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 4/10/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 4/11/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.1 | | 0.2 | 4/2/2015 | TC |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 4/6/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 1222 | | 10 | 4/27/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 4/3/2015 | LJ |
| Iodide | EPA9056M | µg/L | Not Detected | E | 10 | 4/3/2015 | WECK |
| Iron | EPA200.7 | µg/L | Not Detected | | 100 | 4/10/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | Not Detected | | 100 | 4/10/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 4/3/2015 | TC |
| Lithium | EPA200.8 | µg/L | 25 | | 1 | 4/3/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 90 | | 5 | 4/10/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 83 | | 5 | 4/24/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|----------------------------------|-------------|----------|---------------------|---|------|-----------|-----|
| Manganese, Dissolved | EPA200.7 | µg/L | 714 | | 100 | 4/10/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 750 | | 100 | 4/10/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 4/2/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 2 | | 2 | 4/2/2015 | TC |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 0.7 | | 0.2 | 4/2/2015 | TC |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.2 | | 0.2 | 4/2/2015 | TC |
| Odor Threshold at 60 C | SM2150B | TON | 2 | | 1 | 4/3/2015 | MW |
| o-Phosphate-P | Hach 8048 | mg/L | 0.05 | | 0.03 | 4/3/2015 | DH |
| pH (Field Test) | SM4500-H+B | pH | 7.24 | | | 4/2/2015 | AK |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.4 | | 0.1 | 4/2/2015 | HM |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | | 4/4/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.05 | | 0.03 | 4/2/2015 | SM |
| Potassium | EPA200.7 | mg/L | 7.1 | | 5 | 4/10/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 8.0 | | 5 | 4/24/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.67 | | | 4/5/2015 | TC |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 4/9/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 44 | | 5 | 4/10/2015 | MW |
| Sodium | EPA200.7 | mg/L | 77 | | 5 | 4/24/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 78 | | 5 | 4/24/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 2758 | | 1 | 4/2/2015 | HM |
| Specific Conductance (E.C) (Fiel | SM2510B | µmhos/cm | 2859 | | 1 | 4/2/2015 | AK |
| Strontium, Dissolved | EPA200.8 | µg/L | 1826 | | 5 | 4/3/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 85 | | 2 | 4/2/2015 | TC |
| Temperature (Field) | SM2550 | ° C | 10.6 | | | 4/2/2015 | LJ |
| Total Diss. Solids | SM2540C | mg/L | 1840 | | 10 | 4/4/2015 | TC |
| Turbidity | EPA180.1 | NTU | 0.20 | | 0.05 | 4/2/2015 | LJ |
| Turbidity (Field) | EPA180.1 | NTU | 0.59 | | 0.05 | 4/2/2015 | AK |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 4/7/2015 | BSK |
| Zinc, Total | EPA200.8 | µg/L | 24 | | 20 | 4/3/2015 | SM |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28762 Total Ions**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 77 | 0.04350 | 3.35 |
| Potassium | 7.1 | 0.02558 | 0.18 |
| Calcium | 341 | 0.04990 | 17.02 |
| Magnesium | 90 | 0.08229 | 7.41 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 27.95 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 117 | 0.02000 | 2.34 |
| Sulfate | 85 | 0.02082 | 1.77 |
| Chloride | 814 | 0.02821 | 22.96 |
| Nitrate-Nitrogen | 0.5 | 0.07138 | 0.04 |
| Phosphate-P | 0.05 | 0.01031 | 0.00 |
| Bromide | 2.0 | 0.01252 | 0.03 |
| | | SUM | 27.13 |

ANION-CATION BALANCE **1** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 2758 | |
| Cation Sum X 100 | 2795 | 101% |
| Anion Sum X 100 | 2713 | 98% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **28762 Dissolved Ions**

| CORRECTNESS OF ANALYSIS | | | |
|-------------------------|------|---------|-------|
| CATION | MG/L | FACTOR | MEQ/L |
| Sodium | 78 | 0.04350 | 3.39 |
| Potassium | 8 | 0.02558 | 0.20 |
| Calcium | 347 | 0.04990 | 17.32 |
| Magnesium | 83 | 0.08229 | 6.83 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 27.74 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 117 | 0.02000 | 2.34 |
| Sulfate | 85 | 0.02082 | 1.77 |
| Chloride | 814 | 0.02821 | 22.96 |
| Nitrate-Nitrogen | 0.5 | 0.07138 | 0.04 |
| Phosphate-P | 0.05 | 0.01031 | 0.00 |
| Bromide | 2.0 | 0.01252 | 0.03 |
| | | SUM | 27.13 |

ANION-CATION BALANCE **1** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 2758 | |
| Cation Sum X 100 | 2774 | 101% |
| Anion Sum X 100 | 2713 | 98% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 4/3/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|-----------------|------------------|-------|--------------------------|------|
| ICV | 40 | 39 | 97.5 | 95-105 | 9:00 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|------|
| AB28762 | 117 | 117 | 0.0 | 5 | 9:00 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 4/2/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | -0.002 | --- | <0.05 | 1027 |
| ICVL | 0.050 | 0.046 | 92 | 80-120 | 1032 |
| ICV | 0.250 | 0.256 | 102.4 | 80-120 | 1126 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28761 | 0.016 | 0.250 | 0.28 | 0.274 | 105.6 | 103.2 | 2.2 | 80/120 | 10 | 1056 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB28773 D

Date Analyzed
Friday, April 03, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.1 | 103.9 | 0.08 | 106.6 | 109.1 | 2.34 | 54.1 | 50 | 96.0 | 82.5 | 15.1 | 98.1 | 93.3 | 5.05 | 0.08 |
| Aluminum | 0.0 | 96.4 | 2.04 | 105.1 | 109.0 | 3.64 | -1.0 | 50 | 91.2 | 88.2 | 3.3 | 99.7 | 104.6 | 4.86 | 0.07 |
| Copper | 0.0 | 99.8 | 0.11 | 99.9 | 106.4 | 6.30 | 2.2 | 50 | 89.3 | 86.6 | 3.1 | 101.2 | 97.4 | 3.79 | 0.11 |
| Zinc | 0.0 | 119.2 | 0.58 | 90.6 | 95.8 | 5.60 | 1.4 | 50 | 82.7 | 81.5 | 1.5 | 87.8 | 87.3 | 0.55 | 0.03 |
| Arsenic | 0.0 | 98.2 | 0.31 | 101.1 | 107.2 | 5.89 | 2.6 | 50 | 105.5 | 109.4 | 3.6 | 100.0 | 100.2 | 0.23 | 0.13 |
| Strontium | 0.0 | 100.0 | 0.03 | 101.2 | 106.5 | 5.17 | 2833.9 | 50 | -114.6 | -196.5 | 52.7 | 98.8 | 98.8 | 0.03 | 0.02 |
| Barium | 0.0 | 100.1 | 0.03 | 102.3 | 106.8 | 4.27 | 466.2 | 50 | 75.5 | 66.7 | 12.4 | 99.9 | 101.6 | 1.65 | 0.02 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 4/3/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.02 | --- | <0.05 | 1300 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1300 |
| ICV | 0.500 | 0.490 | 98.00% | 90-110 | 1300 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB28775 | ND | 0.500 | 0.490 | 0.460 | 98 | 92 | 6.3 | 85-120 | 10 | 1300 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary

Date: 4/3/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | 0.000 | --- | < 0.03 | 17:16 |
| ICVL | 0.030 | 0.026 | 86.7 | 50-150 | 17:16 |
| ICV | 0.30 | 0.31 | 105 | 90-110 | 17:16 |
| QCS | 0.30 | 0.33 | 110 | 80-120 | 17:16 |
| CCV | 0.30 | 0.33 | 108 | 80-120 | 17:16 |
| CCVB | 0.00 | 0.00 | | < 0.03 | 17:16 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB28775 | 0.12 | 0.30 | 0.44 | 0.45 | 105 | 111 | 3.6 | 70-130 | 10 | 17:16 | 17:16 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 4/2/2015
Time Analyzed: 1700

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.86 | 6.81 | 99.3 | 95-105 | 1700 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB28774 | 7.46 | 7.48 | 0.3 | 10 | 1700 |

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RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 4/2/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1413 | 100.1% | 95-105 | 1500 |
| ICV | 24800 | 24840 | 100.2% | 95-105 | 1600 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB28764 | 27200 | 27240 | 0.1% | 10 | 1600 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 4/3/2015

Time: 1600

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.090 | --- | <0.5 |
| LCS | 5.0 | 5.0 | 100 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB28774 | ND | 5.0 | 1.1 | 3.8 | 22 | 76 | 110.2 | 85-120 | 10 |

Spiked sample contained >10 mg/L nitrate which interferes with analyses, data accepted based on LCS recovery

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 4/2/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | 0.039 | --- | <0.05 | 1700 |
| ICV | 1.00 | 1.01 | 101.0% | 95-105 | 1700 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB28775 | 0.75 | 0.75 | 0.00% | 10 | 1700 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

Batch # 20150410

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.01 | 1.10 | 110.2% | 1.10 | 110.1% | 0.1% | 1 | 1.04 | 103.9% | 1 | 1.0 | 103.7% |
| B 249.772 | 0.05-5ppm | 0.00 | 0.00 | 1.09 | 109.5% | 1.09 | 109.1% | 0.3% | 1 | 1.04 | 104.2% | 1 | 1.0 | 103.8% |
| Fe 238.204 | 10ppb-100ppm | 1.35 | 1.67 | 1008 | 100.8% | 1006 | 100.6% | 0.2% | 1000 | 996 | 99.6% | 1000 | 982.1 | 98.2% |
| Fe 259.940 | 10ppb-100ppm | 2.08 | -0.68 | 1018 | 101.8% | 1017 | 101.7% | 0.1% | 1000 | 1003 | 100.3% | 1000 | 995.8 | 99.6% |
| Mn 257.610 | 10ppb-11ppm | -0.93 | -1.34 | 1031 | 103.1% | 1029 | 102.9% | 0.2% | 1000 | 1002 | 100.2% | 1000 | 994.1 | 99.4% |
| Mn 260.568 | 10ppb-11ppm | -1.90 | -1.74 | 1032 | 103.2% | 1040 | 104.0% | 0.8% | 1000 | 1008 | 100.8% | 1000 | 994.0 | 99.4% |
| Si 251.611 | 0.5-200ppm | -0.01 | -0.09 | 52.2 | 104.4% | 51.9 | 103.9% | 0.5% | 50 | 49.9 | 99.9% | 50 | 50.5 | 101.0% |
| Si 252.411 | 0.5-200ppm | -0.02 | -0.01 | 52.0 | 104.1% | 51.9 | 103.9% | 0.2% | 50 | 49.8 | 99.6% | 50 | 50.4 | 100.7% |

Matrix Spikes

Sample ID AB28801

| Analyte/ WL | Sample | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|--------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|-------|
| | Value | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.35 | 2.50 | 107.5% | 2.46 | 105.3% | 1.8% | 1 | 1.09 | 109.2% | 5.0% | 0.00 |
| B 249.772 | 0.34 | 2.53 | 109.2% | 2.48 | 106.9% | 1.8% | 1 | 1.08 | 108.4% | 4.0% | 0.00 |
| Fe 238.204 | 52 | 2132 | 104.0% | 2093 | 102.1% | 1.8% | 1000 | 1049 | 104.9% | 5.2% | 1.30 |
| Fe 259.940 | 52 | 2154 | 105.1% | 2117 | 103.3% | 1.7% | 1000 | 1061 | 106.1% | 5.7% | 0.26 |
| Mn 257.610 | 66 | 2183 | 105.8% | 2149 | 104.2% | 1.5% | 1000 | 1057 | 105.7% | 5.3% | -1.55 |
| Mn 260.568 | 65 | 2193 | 106.4% | 2166 | 105.1% | 1.2% | 1000 | 1061 | 106.1% | 5.1% | -2.31 |
| Si 251.611 | 36.5 | 141.7 | 105.2% | 139.2 | 102.8% | 1.7% | 50 | 52.6 | 105.2% | 5.2% | -0.05 |
| Si 252.411 | 36.3 | 141.1 | 104.8% | 138.5 | 102.2% | 1.9% | 50 | 52.4 | 104.9% | 5.1% | 0.00 |

Batch # 201500424

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCS | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| Ca 317.933 | 50-300ppm | -4.60 | -4.59 | 48.3 | 96.6% | 49.0 | 98.1% | 1.6% | 50 | 48.8 | 97.5% | 50 | 46.7 | 93.3% |
| Ca 396.847 | 0.5-50ppm | -0.30 | -0.29 | 49.1 | 98.1% | 50.2 | 100.4% | 2.3% | 50 | 49.5 | 99.0% | 50 | 48.3 | 96.5% |
| K 766.491 | 0.5-750ppm | 0.10 | 0.08 | 9.8 | 98.0% | 10.0 | 99.6% | 1.6% | 10 | 9.9 | 99.1% | 10 | 9.5 | 94.9% |
| Mg 202.582 | 50-1000ppm | -1.48 | -1.42 | 49.3 | 98.7% | 51.0 | 102.0% | 3.3% | 50 | 50.2 | 100.5% | 50 | 49.0 | 98.1% |
| Mg 279.078 | 0.5-50ppm | -0.05 | -0.10 | 48.7 | 97.3% | 49.7 | 99.4% | 2.1% | 50 | 49.4 | 98.8% | 50 | 47.5 | 95.0% |
| Na 568.821 | 50-1000ppm | 10.90 | 10.62 | 53.9 | 107.7% | 53.1 | 106.2% | 1.4% | 50 | 53.0 | 106.1% | 50 | 53.7 | 107.4% |
| Na 589.592 | 0.5-50ppm | 0.02 | 0.04 | 49.8 | 99.6% | 50.7 | 101.3% | 1.7% | 50 | 50.2 | 100.4% | 50 | 48.8 | 97.6% |

Matrix Spikes

Sample ID AB28971

| Analyte/ WL | Sample | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|--------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|-------|
| | Value | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| Ca 317.933 | 126.0 | 222.9 | 96.9% | 222.3 | 96.3% | 0.3% | 50 | 49.1 | 98.2% | 0.7% | -4.50 |
| Ca 396.847 | 124.9 | 193.5 | 68.6% | 191.2 | 66.3% | 1.2% | 50 | 49.3 | 98.7% | 0.3% | -0.20 |
| K 766.491 | 2.5 | 22.2 | 98.6% | 22.3 | 99.0% | 0.4% | 10 | 9.9 | 99.1% | 0.1% | 0.09 |
| Mg 202.582 | 85.4 | 185.1 | 99.7% | 182.5 | 97.0% | 1.4% | 50 | 51.4 | 102.8% | 2.3% | -1.34 |
| Mg 279.078 | 82.6 | 177.0 | 94.5% | 175.5 | 92.9% | 0.9% | 50 | 49.6 | 99.2% | 0.4% | 0.04 |
| Na 568.821 | 105.5 | 208.1 | 102.6% | 203.5 | 98.0% | 2.2% | 50 | 55.2 | 110.3% | 4.0% | 10.37 |
| Na 589.592 | 95.0 | 189.8 | 94.8% | 190.2 | 95.2% | 0.2% | 50 | 50.5 | 100.9% | 0.5% | 0.12 |

4 Justin Court Ste D, Monterey, CA 93

831.375.MBAS (6227), 831.641.0734

MontereyBayAnalytical@usa.net

<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID: **20150402**

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.01 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 |
| ICV | 1.87 | 19.79 | 2.04 | 19.88 | 1.77 | 1.76 |
| Rec 90-110% | 93.60 | 98.97 | 102.15 | 99.40 | 88.67 | 88.13 |
| ICVL | 0.15 | 1.78 | 0.18 | 1.72 | 0.16 | 0.14 |
| Rec 50-150% | 75.99 | 88.86 | 89.21 | 85.92 | 78.38 | 69.61 |
| Sample ID AB28767 | 0.17 | 13.38 | 0.33 | 75.68 | 0.01 | 0.20 |
| MS | 1.89 | 32.62 | 2.28 | 92.90 | 1.61 | 1.76 |
| Rec 80-120% | 85.80 | 96.19 | 97.39 | 86.14 | 79.77 | 78.22 |
| MSD | 1.79 | 32.61 | 2.26 | 94.36 | 1.58 | 1.73 |
| Rec 80-120% | 80.84 | 96.14 | 96.21 | 93.40 | 78.64 | 76.70 |
| Diff 10% | 5.39 | 0.03 | 1.04 | 1.55 | 1.42 | 1.74 |
| CCV | 1.85 | 19.65 | 2.03 | 19.83 | 1.74 | 1.74 |
| Rec 90-110% | 92.57 | 98.23 | 101.73 | 99.16 | 86.93 | 87.17 |
| Diff 10% | 1.11 | 0.75 | 0.42 | 0.25 | 1.98 | 1.09 |
| CCVB | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 | 0.00 |



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 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

TDS QC Summary (SM 2540C)

Date Analyzed: 4/4/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | ND | --- | <10 | 1200 |
| ICVL | 100 | 91 | 91 | 80-120 | 1200 |
| ICV | 500 | 491 | 98.2 | 90-110 | 1200 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB28765 | 29600 | 29100 | 1.7 | 10 | 1200 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Phosphorus QC Summary (Hach 8190)

Date: 4/2/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | ND | --- | < 0.03 | 1507 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 1512 |
| ICV | 0.50 | 0.51 | 102 | 90-110 | 1518 |
| QCS | 0.50 | 0.51 | 102 | 80-120 | 1524 |
| CCV | 0.50 | 0.52 | 104 | 80-120 | 1630 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB28775 D | 0.08 | 0.50 | 0.58 | 0.60 | 100 | 104 | 3.4 | 70-130 | 10 | 1620 | 1625 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCSL = Laboratory Control Standard Low; QCS = Quality Control Standard;

ICV= Initial Calibration Verification, CCV= Continuing Calibration Verification, RPD = Relative Percent Difference; Rec = Recovery

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

April 13, 2015

Ceres ID: 10631

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on April 3, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # AB28762.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10631-001 | MW-6D (monitoring) | 4/3/2015 | 4/2/2015 9:50 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB28762 | | Sample Size: | 1.000 L | QC Batch #: | 1308 | Date Extracted: | 8-Apr-15 |
| | | | | | ZB-5 MS Analysis Date: 9-Apr-15 | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.53 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 93.7 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 98.5 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|---------|--|------------------------|---------------------------|-------------------|----------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB28762 | | Sample Size: | 1.000 L | | QC Batch #: | 1308 | Date Extracted: | 8-Apr-15 |
| | | | | | | ZB-5 MS Analysis Date: | 9-Apr-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers | |
| 2,3,7,8-TCDD | 11.0 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 101 | 25-141 | | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 10.4 | 3.7-15.8 | | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | | |
| Analyst: JMH | | | Reviewed by: BS | | | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-6D (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10631-001 | | Date Received: 3-Apr-15 |
| Project: AB28762 | | | Sample Size: 1.032 L | | QC Batch #: 1308 | | Date Extracted: 8-Apr-15 |
| Date Collected: 2-Apr-15 | | | | | ZB-5 MS Analysis Date: 9-Apr-15 | | |
| Time Collected: 9:50 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.12 | | | IS ¹³ C-2,3,7,8-TCDD | 92.6 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 103 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: 10631
 Temperature: 3.3 °C

Reports and invoices will be delivered by email in .pdf format

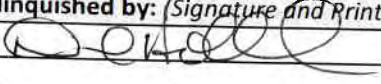
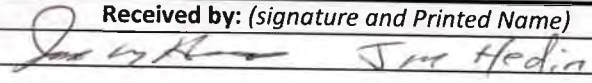
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|---|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | | Date | Time | | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 1 | MW-6D (monitoring) | 4/2/2015 | 950 | 0:00 | Aq | 2 | X | | | | | | Comments |
| 2 | | | | | | | | | | | | | AB28762 |
| 3 | | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 4 | | | | | | | | | | | | | Please include excel report |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|---|----------|-------|---|--------|-------|
|  | 4/2/2015 | 16:00 |  Jim Hedin | 4/3/15 | 11:52 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed. Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10631</u> | Date/Time: <u>4/3/15 0952</u> |
| Client Project ID: <u>AB28762</u> | Received Temperature: <u>3.3°C</u> Acceptable: <input checked="" type="radio"/> Y / N |
| Chain of Custody Relinquished by signed? | <input checked="" type="radio"/> Y / N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <input checked="" type="radio"/> NA |
| Unlabeled / Illegible Samples | Y <input checked="" type="radio"/> N |
| Proper Containers: | <input checked="" type="radio"/> Y / N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <input checked="" type="radio"/> Y / N |
| Drinking Water, Sodium Thiosulfate present? | Y / N <input checked="" type="radio"/> NA |
| List COC discrepancies: | |
| <u>4/3/15</u> | |
| List Damaged Samples: | |
| <u>4/3/15</u> | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10631 PB: 1308 Sample #s: 1 Due Date: 4/17/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Method: 1613 b
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|---------|--------------------|--------------------|--------------------|--------------------|----|--------------------|----|--------------------|-------------------|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | chem/date/witness | chem/date/witness |
| 0-1308-MB001 | Method Blank | | 1.000 L | 4/8/15 [Signature] | 4/9/15 [Signature] | 4/8/15 [Signature] | 4/9/15 [Signature] | NA | 4/9/15 [Signature] | NA | 4/9/15 [Signature] | [Signature] |
| 0-1308-OPR001 | OPR | | 1.000 L | (A) ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10631-1308-001 | MW-6D (monitoring) | ✓ | 1.032 L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

Comments : A OPR spiked with NSS.

Soxhlet Start: 15:00 4/8/15
 Soxhlet Stop: 07:15 4/9/15

Samples Logged out by: [Signature] 07:30 4/8/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 15
 Extracts to Instrument: 11:00 4/9/15 [Signature]
 Extracts returned to Storage Location: 07:15 4/10/15 [Signature]

Chemist: [Signature]

Method: 1613 B / 8290 A
SOP #: 301.1 / 302.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 10ul | |
| NSS | B | ↓ | |
| CSS | C | ↓ | |
| RSS | D | 20ul | |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|----------------|----------|-----------|
| Toluene | 450ml | 143616 | 2/5/16 |
| Hexanes | 20,50,100,20ml | 145782 | 2/5/16 |
| Sigel | 4g | P031615A | 9/16/15 |
| Basic Gel | 4g | P021915A | 8/19/15 |
| Acid Gel | 8g | P021915B | 8/19/15 |
| Acid Al | 6g | P122314A | 6/23/15 |
| N ₉₂ SD ₉ | 1.5g | P101614A | 4/16/15 |
| 20% Dec:Hex | 20ml | L040115A | 10/1/15 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 04/20/15 13:38 |
| Attention: David Holland | Received Date: 04/03/15 09:00 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5D03024 | |

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

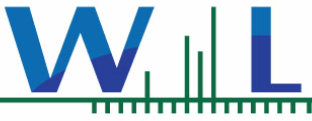
Enclosed are the results of analyses for samples received 04/03/15 09:00 with the Chain of Custody document. The samples were received in good condition, at 1.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|--------------|------------|--------|----------------|
| MW-6D(Monitoring) Comments: AB28762 Comments: AB28762 | Azad Khaligh | 5D03024-01 | Water | 04/02/15 09:50 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

5D03024-01 MW-6D(Monitoring)**Sampled:** 04/02/15 09:50**Sampled By:** Azad Khaligh**Matrix:** Water**Sample Note:** AB28762**Anions by IC, EPA Method 9056**

Method: EPA 9056M

Batch: W5D0145

Prepared: 04/03/15 09:30

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 20 | ug/l | 2 | 04/03/15 17:18 | M-05 |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

5D03024-01RE1 MW-6D(Monitoring)

Sampled: 04/02/15 09:50

Sampled By: Azad Khaligh

Matrix: Water

Sample Note: AB28762

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5D0314

Prepared: 04/07/15 11:01

Analyst: Maxwell Wang

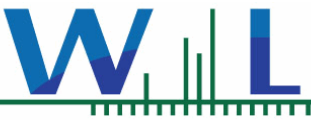
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 04/09/15 23:22 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 04/09/15 23:22 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Endrin | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 04/09/15 23:22 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 04/09/15 23:22 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 04/09/15 23:22 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 04/09/15 23:22 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 04/09/15 23:22 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 04/09/15 23:22 | |
| Surr: Decachlorobiphenyl | 90 % | Conc:0.0896 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 81 % | Conc:0.0812 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

Anions by IC, EPA Method 9056 - Quality Control

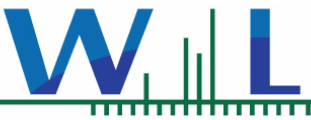
Batch W5D0145 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5D0145-BLK1) | | | | Analyzed: 04/03/15 11:41 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5D0145-BS1) | | | | Analyzed: 04/03/15 11:55 | | | | | | |
| Iodide | 41.3 | 10 | ug/l | 40.0 | | 103 | 85-115 | | | |
| Matrix Spike (W5D0145-MS1) | | | | Source: 5C27006-01 | | Analyzed: 04/03/15 17:33 | | | | |
| Iodide | 57.9 | 10 | ug/l | 40.0 | 19.6 | 96 | 80-120 | | | |
| Matrix Spike (W5D0145-MS2) | | | | Source: 5C27006-02 | | Analyzed: 04/03/15 18:02 | | | | |
| Iodide | 48.7 | 10 | ug/l | 40.0 | 9.20 | 99 | 80-120 | | | |
| Matrix Spike Dup (W5D0145-MSD1) | | | | Source: 5C27006-01 | | Analyzed: 04/03/15 17:47 | | | | |
| Iodide | 59.4 | 10 | ug/l | 40.0 | 19.6 | 99 | 80-120 | 2 | 20 | |
| Matrix Spike Dup (W5D0145-MSD2) | | | | Source: 5C27006-02 | | Analyzed: 04/03/15 18:17 | | | | |
| Iodide | 50.0 | 10 | ug/l | 40.0 | 9.20 | 102 | 80-120 | 3 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0314 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0314-BLK1) | | | | Analyzed: 04/09/15 18:47 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |



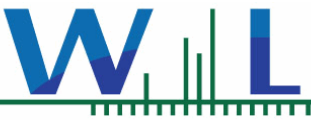
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0314 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|--------------------------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5D0314-BLK1) | | | Analyzed: 04/09/15 18:47 | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.125 | | ug/l | 0.100 | | 125 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0695 | | ug/l | 0.100 | | 70 | 70-130 | | | |
| Blank (W5D0314-BLK2) | | | Analyzed: 04/09/15 18:16 | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | C-3665 |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | C-3665 |
| <i>Surr: Decachlorobiphenyl</i> | 0.104 | | ug/l | 0.100 | | 104 | 70-130 | | | C-3665 |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0962 | | ug/l | 0.100 | | 96 | 70-130 | | | C-3665 |
| LCS (W5D0314-BS1) | | | Analyzed: 04/09/15 19:17 | | | | | | | |
| 4,4'-DDD | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 55-142 | | | |
| 4,4'-DDE | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 49-129 | | | |
| 4,4'-DDT | 0.123 | 0.010 | ug/l | 0.100 | | 123 | 54-160 | | | |
| Aldrin | 0.0861 | 0.010 | ug/l | 0.100 | | 86 | 29-115 | | | |
| alpha-BHC | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-131 | | | |
| beta-BHC | 0.123 | 0.010 | ug/l | 0.100 | | 123 | 63-136 | | | |
| delta-BHC | 0.126 | 0.010 | ug/l | 0.100 | | 126 | 59-137 | | | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-135 | | | |
| Endosulfan I | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 28-138 | | | |
| Endosulfan II | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 53-133 | | | |
| Endosulfan sulfate | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 58-155 | | | |
| Endrin | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 57-148 | | | |
| Endrin aldehyde | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 59-129 | | | |
| Heptachlor | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 42-136 | | | |
| Heptachlor epoxide | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-134 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5D0314 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-------|-----------|-----------------|
| LCS (W5D0314-BS1) | | | | Analyzed: 04/09/15 19:17 | | | | | | |
| Methoxychlor | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 56-167 | | | |
| Surr: Decachlorobiphenyl | 0.113 | | ug/l | 0.100 | | 113 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0732 | | ug/l | 0.100 | | 73 | 70-130 | | | |
| LCS (W5D0314-BS2) | | | | Analyzed: 04/09/15 20:18 | | | | | | |
| Aroclor 1016 | 1.28 | 0.10 | ug/l | 1.00 | | 128 | 49-152 | | | C-3665 |
| Aroclor 1260 | 1.28 | 0.10 | ug/l | 1.00 | | 128 | 52-146 | | | C-3665 |
| Surr: Decachlorobiphenyl | 0.125 | | ug/l | 0.100 | | 125 | 70-130 | | | C-3665 |
| Surr: Tetrachloro-meta-xylene | 0.0886 | | ug/l | 0.100 | | 89 | 70-130 | | | C-3665 |
| LCS Dup (W5D0314-BSD1) | | | | Analyzed: 04/09/15 19:48 | | | | | | |
| 4,4'-DDD | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 55-142 | 0.7 | 25 | |
| 4,4'-DDE | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 49-129 | 2 | 25 | |
| 4,4'-DDT | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 54-160 | 1 | 25 | |
| Aldrin | 0.0868 | 0.010 | ug/l | 0.100 | | 87 | 29-115 | 0.8 | 25 | |
| alpha-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 59-131 | 0.9 | 25 | |
| beta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 63-136 | 1 | 25 | |
| delta-BHC | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 59-137 | 0.7 | 25 | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-135 | 0.4 | 25 | |
| Endosulfan I | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 28-138 | 0.2 | 25 | |
| Endosulfan II | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 53-133 | 0.7 | 25 | |
| Endosulfan sulfate | 0.116 | 0.010 | ug/l | 0.100 | | 116 | 58-155 | 1 | 25 | |
| Endrin | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 57-148 | 0.006 | 25 | |
| Endrin aldehyde | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 45-139 | 6 | 25 | |
| gamma-BHC (Lindane) | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-129 | 4 | 25 | |
| Heptachlor | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 42-136 | 0.03 | 25 | |
| Heptachlor epoxide | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-134 | 0.06 | 25 | |
| Methoxychlor | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 56-167 | 2 | 25 | |
| Surr: Decachlorobiphenyl | 0.109 | | ug/l | 0.100 | | 109 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0783 | | ug/l | 0.100 | | 78 | 70-130 | | | |
| LCS Dup (W5D0314-BSD2) | | | | Analyzed: 04/09/15 20:49 | | | | | | |
| Aroclor 1016 | 1.20 | 0.10 | ug/l | 1.00 | | 120 | 49-152 | 7 | 25 | C-3665 |
| Aroclor 1260 | 1.25 | 0.10 | ug/l | 1.00 | | 125 | 52-146 | 2 | 25 | C-3665 |
| Surr: Decachlorobiphenyl | 0.116 | | ug/l | 0.100 | | 116 | 70-130 | | | C-3665 |
| Surr: Tetrachloro-meta-xylene | 0.0708 | | ug/l | 0.100 | | 71 | 70-130 | | | C-3665 |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 04/03/15 09:00
Date Reported: 04/20/15 13:38

Notes and Definitions

| | |
|---------------|---|
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| C-3665 | The "Sulfuric Acid Cleanup" was performed to the sample. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5D0320

4/17/2015

Invoice: A507772

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5D0320 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/3/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montieth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montieth , at (800) 877-8310 or (559) 497-2888 x201.



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 4/03/2015 - 10:40 Report Due: 4/17/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 3.6 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- BS6.0 BS/BSD RPD exceeded method acceptance limits
- HT1.3 Holding time exceeded. Sample was analyzed past the holding time.
- MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5D0320-01
Sampled By: Azad Khaligh
Sample Description: MW-6D (Monitoring) // AB28762

Sample Date - Time: 04/02/15 - 09:50
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A503851 | 04/08/15 | 04/10/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A503851 | 04/08/15 | 04/10/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 103 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A503712 | 04/03/15 | 04/04/15 | |
| Surrogate: DCPAA | EPA 515.3 | 101 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | BS1.0 |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |

Certificate of Analysis

Sample ID: A5D0320-01
Sampled By: Azad Khaligh
Sample Description: MW-6D (Monitoring) // AB28762

Sample Date - Time: 04/02/15 - 09:50
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | BS1.0 |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | BS1.0 |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A503778 | 04/06/15 | 04/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 85 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 92 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |

Certificate of Analysis

Sample ID: A5D0320-01
Sampled By: Azad Khaligh
Sample Description: MW-6D (Monitoring) // AB28762

Sample Date - Time: 04/02/15 - 09:50
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A503722 | 04/06/15 | 04/09/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 99 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | BS1.0 |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A503832 | 04/07/15 | 04/09/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A503727 | 04/06/15 | 04/06/15 | |
| Surrogate: AMPA | EPA 547 | 100 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A503775 | 04/06/15 | 04/11/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A503930 | 04/09/15 | 04/10/15 | |

Certificate of Analysis

Sample ID: A5D0320-01RE1
Sampled By: Azad Khaligh
Sample Description: MW-6D (Monitoring) // AB28762

Sample Date - Time: 04/02/15 - 09:50
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--|-----------|--------|------|-------|---------|-------------------------------------|----------|----------|-----------------------------------|
| <u>Volatile Organics by GC-MS</u> | | | | | | Analysis Qualifier(s): HT1.3 | | | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A504218 | 04/06/15 | 04/17/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A504218 | 04/06/15 | 04/17/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A504218 | 04/06/15 | 04/17/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 91 % | | | | | | | <i>Acceptable range: 70-130 %</i> |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 96 % | | | | | | | <i>Acceptable range: 70-130 %</i> |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A503851

Prepared: 04/08/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A503851-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 04/09/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 04/09/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 104 | 70-130 | | | 04/09/15 | |

Blank Spike (A503851-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | | 110 | 70-130 | | | 04/09/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 98 | 70-130 | | | 04/09/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.50 | | | 0.46 | | 109 | 70-130 | | | 04/09/15 | |

Blank Spike Dup (A503851-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | | 105 | 70-130 | 5 | 20 | 04/10/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | | 99 | 70-130 | 1 | 20 | 04/10/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 105 | 70-130 | | | 04/10/15 | |

Matrix Spike (A503851-MS1), Source: A5D0150-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | ND | 105 | 65-135 | | | 04/09/15 | |
| Ethylene Dibromide (EDB) | 0.21 | 0.020 | ug/L | 0.20 | ND | 105 | 65-135 | | | 04/09/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 104 | 70-130 | | | 04/09/15 | |

Matrix Spike Dup (A503851-MS1), Source: A5D0150-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | ND | 106 | 65-135 | 1 | 20 | 04/09/15 | |
| Ethylene Dibromide (EDB) | 0.21 | 0.020 | ug/L | 0.20 | ND | 102 | 65-135 | 3 | 20 | 04/09/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 104 | 70-130 | | | 04/09/15 | |

EPA 515.3 - Quality Control

Batch: A503712

Prepared: 04/03/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A503712-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 04/04/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 04/04/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 04/04/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 04/04/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 04/04/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 04/04/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 04/04/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 04/04/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 04/04/15 | |
| Surrogate: DCPAA | 61 | | | 58 | | 106 | 70-130 | | | 04/04/15 | |

Blank Spike (A503712-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | | | 04/04/15 | |
| 2,4,5-TP (Silvex) | 0.88 | 1.0 | ug/L | 0.80 | | 110 | 70-130 | | | 04/04/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | | 112 | 70-130 | | | 04/04/15 | |
| Bentazon | 8.7 | 2.0 | ug/L | 8.0 | | 108 | 70-130 | | | 04/04/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A503712

Prepared: 04/03/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A503712-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.1 | 10 | ug/L | 4.0 | | 103 | 70-130 | | | 04/04/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 106 | 70-130 | | | 04/04/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 104 | 70-130 | | | 04/04/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 100 | 70-130 | | | 04/04/15 | |
| Picloram | 0.42 | 1.0 | ug/L | 0.40 | | 104 | 70-130 | | | 04/04/15 | |
| Surrogate: DCPAA | 60 | | | 58 | | 104 | 70-130 | | | 04/04/15 | |

Blank Spike Dup (A503712-BS1D1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.2 | 1.0 | ug/L | 4.0 | | 106 | 70-130 | 3 | 20 | 04/04/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | | 104 | 70-130 | 6 | 20 | 04/04/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | | 109 | 70-130 | 3 | 20 | 04/04/15 | |
| Bentazon | 8.3 | 2.0 | ug/L | 8.0 | | 104 | 70-130 | 4 | 20 | 04/04/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | | 101 | 70-130 | 3 | 20 | 04/04/15 | |
| Dicamba | 6.3 | 1.5 | ug/L | 6.0 | | 104 | 70-130 | 2 | 20 | 04/04/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 103 | 70-130 | 1 | 20 | 04/04/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 99 | 70-130 | 2 | 20 | 04/04/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 101 | 70-130 | 3 | 20 | 04/04/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 04/04/15 | |

Matrix Spike (A503712-MS1), Source: A5C2201-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | ND | 108 | 70-130 | | | 04/04/15 | |
| 2,4,5-TP (Silvex) | 0.84 | 1.0 | ug/L | 0.80 | ND | 104 | 70-130 | | | 04/04/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | ND | 108 | 70-130 | | | 04/04/15 | |
| Bentazon | 8.6 | 2.0 | ug/L | 8.0 | ND | 107 | 70-130 | | | 04/04/15 | |
| Dalapon | 4.8 | 10 | ug/L | 4.0 | ND | 121 | 70-130 | | | 04/04/15 | |
| Dicamba | 6.3 | 1.5 | ug/L | 6.0 | ND | 105 | 70-130 | | | 04/04/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | ND | 103 | 70-130 | | | 04/04/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 100 | 70-130 | | | 04/04/15 | |
| Picloram | 0.42 | 1.0 | ug/L | 0.40 | ND | 105 | 70-130 | | | 04/04/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 04/04/15 | |

Matrix Spike Dup (A503712-MS1D1), Source: A5C2201-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.2 | 1.0 | ug/L | 4.0 | ND | 106 | 70-130 | 2 | 20 | 04/04/15 | |
| 2,4,5-TP (Silvex) | 0.84 | 1.0 | ug/L | 0.80 | ND | 105 | 70-130 | 0 | 20 | 04/04/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | ND | 109 | 70-130 | 1 | 20 | 04/04/15 | |
| Bentazon | 8.4 | 2.0 | ug/L | 8.0 | ND | 104 | 70-130 | 3 | 20 | 04/04/15 | |
| Dalapon | 4.7 | 10 | ug/L | 4.0 | ND | 118 | 70-130 | 2 | 20 | 04/04/15 | |
| Dicamba | 6.2 | 1.5 | ug/L | 6.0 | ND | 103 | 70-130 | 2 | 20 | 04/04/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | ND | 104 | 70-130 | 1 | 20 | 04/04/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 98 | 70-130 | 2 | 20 | 04/04/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | ND | 102 | 70-130 | 3 | 20 | 04/04/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 04/04/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503778

Prepared: 04/07/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503778-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 04/07/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 04/07/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 04/07/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 04/07/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 04/07/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 04/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503778

Prepared: 04/07/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A503778-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 04/07/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 04/07/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 04/07/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.4 | | | 5.0 | | 88 | 70-130 | | | 04/07/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 95 | 70-130 | | | 04/07/15 | |

Blank Spike (A503778-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 04/07/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| 1,2,3-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 04/07/15 | |
| 1,2,4-Trichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/07/15 | |
| 1,2,4-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| 1,2-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | | | 04/07/15 | |
| 1,3-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| 1,4-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| 2-Butanone | 11 | 5.0 | ug/L | 10 | | 106 | 70-130 | | | 04/07/15 | |
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| 4-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503778

Prepared: 04/07/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A503778-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|---------|
| 4-Methyl-2-pentanone | 9.9 | 5.0 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| Acetone | 11 | 10 | ug/L | 10 | | 110 | 70-130 | | | 04/07/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 04/07/15 | |
| Bromodichloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/07/15 | |
| Carbon Tetrachloride | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | | | 04/07/15 | |
| Chlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/07/15 | |
| Chloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| Chloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/07/15 | |
| cis-1,2-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| cis-1,3-Dichloropropene | 8.1 | 0.50 | ug/L | 10 | | 81 | 70-130 | | | 04/07/15 | |
| Dibromochloromethane | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | | | 04/07/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| Dichlorodifluoromethane | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | | | 04/07/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/07/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| Ethylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| Hexachlorobutadiene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 04/07/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 04/07/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 102 | 70-130 | | | 04/07/15 | |
| Naphthalene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 04/07/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 04/07/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/07/15 | |
| p-Isopropyltoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| Styrene | 15 | 0.50 | ug/L | 10 | | 147 | 70-130 | | | 04/07/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 9.7 | 3.0 | ug/L | 10 | | 97 | 70-130 | | | 04/07/15 | |
| tert-Butyl alcohol (TBA) | 11 | 2.0 | ug/L | 10 | | 114 | 70-130 | | | 04/07/15 | |
| tert-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| Tetrachloroethene (PCE) | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/07/15 | |
| Toluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/07/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/07/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/07/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 108 | 70-130 | | | 04/07/15 | |
| Vinyl Chloride | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 103 | 70-130 | | | 04/07/15 | |
| Surrogate: Bromofluorobenzene | 53 | | | 50 | | 106 | 70-130 | | | 04/07/15 | |

Blank Spike Dup (A503778-BSD1)

| | | | | | | | | | | | |
|---------------------------|-----|------|------|----|--|----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 1 | 30 | 04/07/15 | |
|---------------------------|-----|------|------|----|--|----|--------|---|----|----------|--|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503778

Prepared: 04/07/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A503778-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|---------|
| 1,1,1-Trichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,1,2-Trichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 04/07/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 0 | 30 | 04/07/15 | |
| 1,2,3-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,2,4-Trichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,2,4-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,2-Dichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 0 | 30 | 04/07/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | 0 | 30 | 04/07/15 | |
| 1,3-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 04/07/15 | |
| 1,4-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| 2,2-Dichloropropane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 04/07/15 | |
| 2-Butanone | 11 | 5.0 | ug/L | 10 | | 107 | 70-130 | 0 | 30 | 04/07/15 | |
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 0 | 30 | 04/07/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 04/07/15 | |
| 4-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 0 | 30 | 04/07/15 | |
| 4-Methyl-2-pentanone | 12 | 5.0 | ug/L | 10 | | 115 | 70-130 | 15 | 30 | 04/07/15 | |
| Acetone | 14 | 10 | ug/L | 10 | | 139 | 70-130 | 23 | 30 | 04/07/15 | BS High |
| Benzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| Bromobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 1 | 30 | 04/07/15 | |
| Bromodichloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 0 | 30 | 04/07/15 | |
| Carbon Tetrachloride | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 2 | 30 | 04/07/15 | |
| Chlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 04/07/15 | |
| Chloroethane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 2 | 30 | 04/07/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| Chloromethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 2 | 30 | 04/07/15 | |
| cis-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 04/07/15 | |
| cis-1,3-Dichloropropene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 5 | 30 | 04/07/15 | |
| Dibromochloromethane | 8.0 | 0.50 | ug/L | 10 | | 80 | 70-130 | 5 | 30 | 04/07/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 0 | 30 | 04/07/15 | |
| Dichlorodifluoromethane | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 1 | 30 | 04/07/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 3 | 30 | 04/07/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 103 | 70-130 | 0 | 30 | 04/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| Ethylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| Hexachlorobutadiene | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 2 | 30 | 04/07/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 0 | 30 | 04/07/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | 0 | 30 | 04/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A503778

Prepared: 04/07/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A503778-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|----|----|----------|---------|
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 102 | 70-130 | 0 | 30 | 04/07/15 | |
| Naphthalene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 0 | 30 | 04/07/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 04/07/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 0 | 30 | 04/07/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 04/07/15 | |
| p-Isopropyltoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 04/07/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 0 | 30 | 04/07/15 | |
| Styrene | 15 | 0.50 | ug/L | 10 | | 148 | 70-130 | 1 | 30 | 04/07/15 | BS High |
| tert-Amyl Methyl Ether (TAME) | 9.8 | 3.0 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 04/07/15 | |
| tert-Butyl alcohol (TBA) | 15 | 2.0 | ug/L | 10 | | 148 | 70-130 | 26 | 30 | 04/07/15 | BS High |
| tert-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 04/07/15 | |
| Tetrachloroethene (PCE) | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 0 | 30 | 04/07/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 04/07/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 0 | 30 | 04/07/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 2 | 30 | 04/07/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 04/07/15 | |
| Vinyl Chloride | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 04/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 102 | 70-130 | | | 04/07/15 | |
| Surrogate: Bromofluorobenzene | 52 | | | 50 | | 105 | 70-130 | | | 04/07/15 | |

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A504218-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 04/17/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 04/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A504218-BLK1)

| | | | | | | | | | | | |
|-------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 04/17/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 04/17/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 04/17/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 04/17/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 04/17/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 04/17/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 04/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A504218-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 04/17/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.5 | | | 5.0 | | 90 | 70-130 | | | 04/17/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 95 | 70-130 | | | 04/17/15 | |

Blank Spike (A504218-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|---------|
| 1,1,1,2-Tetrachloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/17/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| 1,1,2,2-Tetrachloroethane | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | | | 04/17/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 04/17/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/17/15 | |
| 1,1-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 04/17/15 | |
| 1,1-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 04/17/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/17/15 | |
| 1,2,4-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/17/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| 1,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |
| 1,3,5-Trimethylbenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 04/17/15 | |
| 1,3-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/17/15 | |
| 1,3-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 04/17/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| 2,2-Dichloropropane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/17/15 | |
| 2-Butanone | 13 | 5.0 | ug/L | 10 | | 134 | 70-130 | | | 04/17/15 | BS High |
| 2-Chlorotoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/17/15 | |
| 2-Hexanone | 12 | 10 | ug/L | 10 | | 119 | 70-130 | | | 04/17/15 | |
| 4-Chlorotoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 04/17/15 | |
| 4-Methyl-2-pentanone | 12 | 5.0 | ug/L | 10 | | 116 | 70-130 | | | 04/17/15 | |
| Acetone | 18 | 10 | ug/L | 10 | | 179 | 70-130 | | | 04/17/15 | BS High |
| Benzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 04/17/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | | | 04/17/15 | |
| Bromodichloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 04/17/15 | |
| Bromoform | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 04/17/15 | |
| Bromomethane | 12 | 0.50 | ug/L | 10 | | 121 | 70-130 | | | 04/17/15 | |
| Carbon Tetrachloride | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 04/17/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/17/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 04/17/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| Chloromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/17/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 04/17/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| Dibromochloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 04/17/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A504218-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|---------|
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | | | 04/17/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 103 | 70-130 | | | 04/17/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 04/17/15 | |
| Hexachlorobutadiene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | | | 04/17/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | | | 04/17/15 | |
| Methyl-t-butyl ether | 21 | 0.50 | ug/L | 20 | | 104 | 70-130 | | | 04/17/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/17/15 | |
| n-Butylbenzene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | | | 04/17/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 04/17/15 | |
| o-Xylene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 04/17/15 | |
| p-Isopropyltoluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 04/17/15 | |
| sec-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 04/17/15 | |
| Styrene | 7.6 | 0.50 | ug/L | 10 | | 76 | 70-130 | | | 04/17/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 108 | 70-130 | | | 04/17/15 | |
| tert-Butyl alcohol (TBA) | 15 | 2.0 | ug/L | 10 | | 151 | 70-130 | | | 04/17/15 | BS High |
| tert-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 04/17/15 | |
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 04/17/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/17/15 | |
| trans-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 04/17/15 | |
| trans-1,3-Dichloropropene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 04/17/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 04/17/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 108 | 70-130 | | | 04/17/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 04/17/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.7 | | | 5.0 | | 94 | 70-130 | | | 04/17/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 96 | 70-130 | | | 04/17/15 | |

Blank Spike Dup (A504218-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,1,2,2-Tetrachloroethane | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | 2 | 30 | 04/17/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 04/17/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | 2 | 30 | 04/17/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,1-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | 4 | 30 | 04/17/15 | |
| 1,1-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,2,4-Trichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,2,4-Trimethylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 2 | 30 | 04/17/15 | |
| 1,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 04/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A504218-BSD1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|-------------------|
| 1,3-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 2 | 30 | 04/17/15 | |
| 1,3-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | 3 | 30 | 04/17/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 3 | 30 | 04/17/15 | |
| 2,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 04/17/15 | |
| 2-Butanone | 14 | 5.0 | ug/L | 10 | | 138 | 70-130 | 3 | 30 | 04/17/15 | BS High |
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 04/17/15 | |
| 2-Hexanone | 12 | 10 | ug/L | 10 | | 122 | 70-130 | 3 | 30 | 04/17/15 | |
| 4-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 4 | 30 | 04/17/15 | |
| 4-Methyl-2-pentanone | 12 | 5.0 | ug/L | 10 | | 119 | 70-130 | 3 | 30 | 04/17/15 | |
| Acetone | 19 | 10 | ug/L | 10 | | 189 | 70-130 | 5 | 30 | 04/17/15 | BS High |
| Benzene | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 3 | 30 | 04/17/15 | |
| Bromobenzene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 2 | 30 | 04/17/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | 2 | 30 | 04/17/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/17/15 | |
| Bromoform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 04/17/15 | |
| Bromomethane | 13 | 0.50 | ug/L | 10 | | 125 | 70-130 | 3 | 30 | 04/17/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/17/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 3 | 30 | 04/17/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 3 | 30 | 04/17/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 3 | 30 | 04/17/15 | |
| Chloromethane | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | 5 | 30 | 04/17/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 3 | 30 | 04/17/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 04/17/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/17/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 3 | 30 | 04/17/15 | |
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | 2 | 30 | 04/17/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 04/17/15 | |
| Di-isopropyl ether (DIPE) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 04/17/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 2 | 30 | 04/17/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 3 | 30 | 04/17/15 | |
| Hexachlorobutadiene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 3 | 30 | 04/17/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 4 | 30 | 04/17/15 | |
| m,p-Xylenes | 21 | 0.50 | ug/L | 20 | | 103 | 70-130 | 4 | 30 | 04/17/15 | |
| Methyl-t-butyl ether | 21 | 0.50 | ug/L | 20 | | 106 | 70-130 | 2 | 30 | 04/17/15 | |
| Naphthalene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 4 | 30 | 04/17/15 | |
| n-Butylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 04/17/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 3 | 30 | 04/17/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 04/17/15 | |
| p-Isopropyltoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 4 | 30 | 04/17/15 | |
| sec-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 04/17/15 | |
| Styrene | 7.9 | 0.50 | ug/L | 10 | | 79 | 70-130 | 4 | 30 | 04/17/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 110 | 70-130 | 2 | 30 | 04/17/15 | |
| tert-Butyl alcohol (TBA) | 21 | 2.0 | ug/L | 10 | | 212 | 70-130 | 34 | 30 | 04/17/15 | BS, High BS6.0 |
| tert-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A504218

Prepared: 04/17/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A504218-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|---|----|----------|--|
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 3 | 30 | 04/17/15 | |
| Toluene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 3 | 30 | 04/17/15 | |
| trans-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 3 | 30 | 04/17/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 04/17/15 | |
| Trichloroethene (TCE) | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 04/17/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 111 | 70-130 | 2 | 30 | 04/17/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | 4 | 30 | 04/17/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.7 | | | 5.0 | | 93 | 70-130 | | | 04/17/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 96 | 70-130 | | | 04/17/15 | |

EPA 525.2 - Quality Control

Batch: A503722

Prepared: 04/06/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A503722-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 04/07/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 04/07/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 04/07/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 04/07/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 04/07/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 04/07/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 04/07/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 04/07/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 04/07/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 04/07/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 04/07/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 04/07/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 04/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.8 | | | 5.0 | | 96 | 70-130 | | | 04/07/15 | |

Blank Spike (A503722-BS1)

| | | | | | | | | | | | |
|-----------------------------|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | | 100 | 70-130 | | | 04/07/15 | |
| Atrazine | 0.46 | 0.50 | ug/L | 0.50 | | 92 | 70-130 | | | 04/07/15 | |
| Benzo(a)pyrene | 0.086 | 0.10 | ug/L | 0.10 | | 86 | 70-130 | | | 04/07/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 103 | 70-130 | | | 04/07/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 107 | 70-130 | | | 04/07/15 | |
| Bromacil | 1.1 | 10 | ug/L | 1.0 | | 112 | 70-130 | | | 04/07/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 100 | 70-130 | | | 04/07/15 | |
| Diazinon | 0.16 | 0.25 | ug/L | 0.20 | | 82 | 70-130 | | | 04/07/15 | |
| Dimethoate | 0.79 | 10 | ug/L | 1.0 | | 79 | 70-130 | | | 04/07/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 103 | 70-130 | | | 04/07/15 | |
| Metribuzin | 0.99 | 0.50 | ug/L | 1.0 | | 99 | 70-130 | | | 04/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A503722

Prepared: 04/06/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank Spike (A503722-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 103 | 70-130 | | | 04/07/15 | |
| Prometryn | 1.7 | 2.0 | ug/L | 2.0 | | 86 | 70-130 | | | 04/07/15 | |
| Propachlor | 0.53 | 0.50 | ug/L | 0.50 | | 106 | 70-130 | | | 04/07/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 102 | 70-130 | | | 04/07/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.50 | | 99 | 70-130 | | | 04/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 102 | 70-130 | | | 04/07/15 | |

Blank Spike Dup (A503722-BSD1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 0.99 | 1.0 | ug/L | 1.0 | | 99 | 70-130 | 1 | 30 | 04/07/15 | |
| Atrazine | 0.46 | 0.50 | ug/L | 0.50 | | 92 | 70-130 | 0 | 30 | 04/07/15 | |
| Benzo(a)pyrene | 0.091 | 0.10 | ug/L | 0.10 | | 91 | 70-130 | 6 | 30 | 04/07/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 104 | 70-130 | 1 | 30 | 04/07/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 106 | 70-130 | 1 | 30 | 04/07/15 | |
| Bromacil | 1.0 | 10 | ug/L | 1.0 | | 105 | 70-130 | 6 | 30 | 04/07/15 | |
| Butachlor | 0.99 | 0.38 | ug/L | 1.0 | | 99 | 70-130 | 1 | 30 | 04/07/15 | |
| Diazinon | 0.17 | 0.25 | ug/L | 0.20 | | 86 | 70-130 | 4 | 30 | 04/07/15 | |
| Dimethoate | 0.86 | 10 | ug/L | 1.0 | | 86 | 70-130 | 9 | 30 | 04/07/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 104 | 70-130 | 2 | 30 | 04/07/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 1.0 | | 101 | 70-130 | 2 | 30 | 04/07/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 101 | 70-130 | 2 | 30 | 04/07/15 | |
| Prometryn | 1.9 | 2.0 | ug/L | 2.0 | | 96 | 70-130 | 10 | 30 | 04/07/15 | |
| Propachlor | 0.57 | 0.50 | ug/L | 0.50 | | 113 | 70-130 | 6 | 30 | 04/07/15 | |
| Simazine | 0.32 | 1.0 | ug/L | 0.35 | | 90 | 70-130 | 12 | 30 | 04/07/15 | |
| Thiobencarb | 0.48 | 1.0 | ug/L | 0.50 | | 96 | 70-130 | 3 | 30 | 04/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.9 | | | 5.0 | | 99 | 70-130 | | | 04/07/15 | |

Matrix Spike (A503722-MS1), Source: A5D0037-01

| | | | | | | | | | | | |
|--|------|------|------|-------|----|-----|--------|--|--|----------|------------|
| Alachlor | 0.99 | 1.0 | ug/L | 0.99 | ND | 99 | 70-130 | | | 04/07/15 | |
| Atrazine | 0.44 | 0.50 | ug/L | 0.50 | ND | 88 | 70-130 | | | 04/07/15 | |
| Benzo(a)pyrene | 0.13 | 0.10 | ug/L | 0.099 | ND | 120 | 70-130 | | | 04/07/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | ND | 100 | 70-130 | | | 04/07/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | ND | 105 | 70-130 | | | 04/07/15 | |
| Bromacil | 1.3 | 10 | ug/L | 0.99 | ND | 134 | 70-130 | | | 04/07/15 | MS1.0 High |
| Butachlor | 0.99 | 0.38 | ug/L | 0.99 | ND | 99 | 70-130 | | | 04/07/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | ND | 89 | 70-130 | | | 04/07/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 0.99 | ND | 102 | 70-130 | | | 04/07/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 105 | 70-130 | | | 04/07/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 0.99 | ND | 115 | 70-130 | | | 04/07/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 0.99 | ND | 101 | 70-130 | | | 04/07/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | ND | 106 | 70-130 | | | 04/07/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | ND | 109 | 70-130 | | | 04/07/15 | |
| Simazine | 0.34 | 1.0 | ug/L | 0.35 | ND | 97 | 70-130 | | | 04/07/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.50 | ND | 100 | 70-130 | | | 04/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.9 | | | 5.0 | | 98 | 70-130 | | | 04/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A503832

Prepared: 04/07/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A503832-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 04/08/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 04/08/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 04/08/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 04/08/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 04/08/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 04/08/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 04/08/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 04/08/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 04/08/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 04/08/15 | |

Blank Spike (A503832-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|---------|
| 3-Hydroxycarbofuran | 4.5 | 3.0 | ug/L | 4.0 | | 113 | 80-120 | | | 04/08/15 | |
| Aldicarb | 4.7 | 3.0 | ug/L | 4.0 | | 117 | 80-120 | | | 04/08/15 | |
| Aldicarb Sulfone | 4.6 | 2.0 | ug/L | 4.0 | | 114 | 80-120 | | | 04/08/15 | |
| Aldicarb Sulfoxide | 4.5 | 3.0 | ug/L | 4.0 | | 111 | 80-120 | | | 04/08/15 | |
| Carbaryl | 4.6 | 5.0 | ug/L | 4.0 | | 115 | 80-120 | | | 04/08/15 | |
| Carbofuran | 4.6 | 5.0 | ug/L | 4.0 | | 115 | 80-120 | | | 04/08/15 | |
| Methiocarb | 4.6 | 2.0 | ug/L | 4.0 | | 115 | 80-120 | | | 04/08/15 | |
| Methomyl | 4.9 | 2.0 | ug/L | 4.0 | | 122 | 80-120 | | | 04/08/15 | BS High |
| Oxamyl | 4.5 | 20 | ug/L | 4.0 | | 112 | 80-120 | | | 04/08/15 | |
| Propoxur | 4.6 | 2.0 | ug/L | 4.0 | | 116 | 80-120 | | | 04/08/15 | |

Blank Spike Dup (A503832-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| 3-Hydroxycarbofuran | 4.3 | 3.0 | ug/L | 4.0 | | 108 | 80-120 | 4 | 20 | 04/09/15 | |
| Aldicarb | 4.3 | 3.0 | ug/L | 4.0 | | 107 | 80-120 | 8 | 20 | 04/09/15 | |
| Aldicarb Sulfone | 4.3 | 2.0 | ug/L | 4.0 | | 108 | 80-120 | 5 | 20 | 04/09/15 | |
| Aldicarb Sulfoxide | 4.2 | 3.0 | ug/L | 4.0 | | 106 | 80-120 | 5 | 20 | 04/09/15 | |
| Carbaryl | 4.4 | 5.0 | ug/L | 4.0 | | 110 | 80-120 | 5 | 20 | 04/09/15 | |
| Carbofuran | 4.4 | 5.0 | ug/L | 4.0 | | 109 | 80-120 | 6 | 20 | 04/09/15 | |
| Methiocarb | 4.3 | 2.0 | ug/L | 4.0 | | 107 | 80-120 | 8 | 20 | 04/09/15 | |
| Methomyl | 4.7 | 2.0 | ug/L | 4.0 | | 117 | 80-120 | 4 | 20 | 04/09/15 | |
| Oxamyl | 4.3 | 20 | ug/L | 4.0 | | 106 | 80-120 | 5 | 20 | 04/09/15 | |
| Propoxur | 4.3 | 2.0 | ug/L | 4.0 | | 107 | 80-120 | 8 | 20 | 04/09/15 | |

EPA 547 - Quality Control

Batch: A503727

Prepared: 04/06/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A503727-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 04/06/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 120 | 70-130 | | | 04/06/15 | |

Blank Spike (A503727-BS1)

| | | | | | | | | | | | |
|------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | | 120 | 70-130 | | | 04/06/15 | |
|------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 549.2 - Quality Control

Batch: A503930

Prepared: 04/09/2015

Prep Method: EPA 549.2

Analyst: PYA

Matrix Spike (A503930-MS1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | ND | 85 | 70-130 | | | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Matrix Spike Dup (A503930-MSD1), Source: A5D0320-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|
| Diquat | 3.5 | 4.0 | ug/L | 4.0 | ND | 88 | 70-130 | 3 | 30 | 04/10/15 | |
|--------|-----|-----|------|-----|----|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-14 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

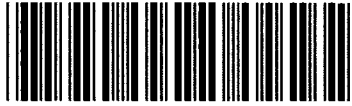
| | | | |
|-------------------------|----------|---------------------|---------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-13 |
|-------------------------|----------|---------------------|---------|



A5D0320



04032015



Monte6227

Turnaround: Standard
Due Date: 4/17/2015



Monterey Bay Analytical



Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

*Required Fields

Temp: 3.6



Company/Client Name*: Monterey Bay Analytical Services
 Report Attention*: Mason Weidner-Holland
 Additional cc's: David Holland
 Invoice To*: David Holland
 PO#:
 Phone*: 831-375-6227
 Fax: 831-641-0734
 E-mail*: mweidner@mbasinc.com, dholland@mbasinc.com

Address*: 4 Justin Court, Suite D
 City*: Monterey
 State*: CA
 Zip*: 93940

Project: Cal Am
 Project #:
 How would you like to receive your completed results?
 E-Mail Fax Mail

Reporting Options:
 Trace (-Flag) Swamp EDD Type:
 Regulatory Carbon Copies
 SWRCB (Drinking Water)
 Merced Co
 Madera Co
 Fresno Co
 Tulare Co
 Regulatory Compliance
 EDT to California SWRCB (Drinking Water)
 System Number*:
 Geotracker #:
 SO=Solid

Sampler Name (Printed/Signature)*: Azad Khaligh
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX |
|---|---------------------|----------|------|---------|---------------------------------|
| | | Date | Time | | |
| 1 | MW-6D (monitoring) | 4/2/15 | 0950 | GW | AB28762 |

| # | Sample Description* | Date | Time | Matrix* | Comments / Station Code / WTRAX | EPA 524 inc. MTBE | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|---|---------------------|--------|------|---------|---------------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| 1 | MW-6D (monitoring) | 4/2/15 | 1600 | GW | AB28762 | X | X | X | X | X | X | X | X |

Relinquished by: (Signature and Printed Name) D. Holland
 Company: MBAS
 Date: 4/2/15
 Time: 1600
 Received by: (Signature and Printed Name)
 Company:
 Date:
 Time:
 Payment Received at Delivery:
 Date:
 Amount:
 P/L#:
 Check:
 Init:
 Cash:
 Chilling Process Begun:
 Custody Seal: Y/N
 Y/N
 BWS

Shipping Method: UPS
 Cooling Method: None
 Fed Ex:
 Courier:
 Date: 4/3/15
 Time: 1040
 Payment Received at Delivery:
 Date:
 Amount:
 P/L#:
 Check:
 Init:
 Cash:
 Chilling Process Begun:
 Custody Seal: Y/N
 Y/N
 BWS

Payment for services rendered is noted here and due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK/ClientTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | | Were correct containers and preservatives received for the tests requested? | | |
|------------------|--|--------------|--------------------|---|--------------|--------------------|
| | | <u>Yes</u> | No | NA | <u>Yes</u> | No |
| | If samples were taken today, is there evidence that chilling has begun? | | | Were there bubbles in the VOA vials? (Volatiles Only) | | |
| | Yes | No | <u>NA</u> | Yes | <u>No</u> | NA |
| | Did all bottles arrive unbroken and intact? | | | Was a sufficient amount of sample received? | | |
| | <u>Yes</u> | No | | <u>Yes</u> | No | |
| | Did all bottle labels agree with COC? | | | Do samples have a hold time <72 hours? | | |
| | <u>Yes</u> | No | | Yes | <u>No</u> | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | |
| | Yes | No | <u>NA</u> | Yes | No | <u>NA</u> |
| Bottles Received | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | |
| | | | | 1 | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | |
| | None (P) ^{White Cap} | — | — | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | pH > 8 | Y N | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y N | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y N | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y N | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y N | | | 4-3-15 |
| | NaOH + ZnAc (P) | pH > 9 | Y N | | | R |
| | Dissolved Oxygen 300ml (g) | — | — | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | 2C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | 1C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | 2A | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 AG | — | — | 4U | | |
| | $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | <u>Y</u> N | 1V | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | |
| | HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | — | — | 3V | | |
| | Buffer pH 4 (CG) | — | — | | | |
| | None (CG) | — | — | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | |
| | Other: | | | | | |
| | Asbestos 1Liter Plastic w/ Foil | — | — | | | |
| | Low Level Hg / Metals Double Baggie | — | — | | | |
| | Bottled Water | — | — | | | |
| | Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | |
| | Soil Tube Brass / Steel / Plastic | — | — | | | |
| | Tedlar Bag / Plastic Bag | — | — | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials |
| | S P | | | S P | | |
| | S P | | | S P | | |
| Comments | | | | | | |

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter |
| Field Parameters: | | | | | |
| | | | | | Temp: |
| | | | | | pH: |
| | | | | | Sp Cond: |
| | | | | | Turb: |

| | | | |
|--|---|----------------------|--|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 | |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|------|-----------------|-------------------|----------|---------|-------|--------|---------|-----------|------|------|
| | | | Date | Time | | CL2 | Residual | Routine | Other | Repeat | | Special | Type | Size |
| 28762 | | MW-6D | 4-2-2015 | 9:50 | 10.6 | | | | | | | 23 | | |
| | | | | | | | | | | | | | | |
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| | Printed Name | Signature | Date | Time | Comment |
|------------------|-------------------------|-----------|--------|-------|---|
| Sampled by: | ABAD KHALIGHI (G.S.S.I) | | 4/2/15 | 11:44 | Is sample for regulatory purposes? Yes / No PH = 7.24 TDS = 1944.80 mg/l SC = 2859 uS/cm C = 2563 uS/cm Turb = 0.59 NTU |
| Relinquished by: | | | | | |
| Received by: | MBAS | | 4/2/15 | 1144 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L GPII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| <i>Volatile Organic Compounds</i> | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| <i>EPA Organic Methods</i> | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA

<2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
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| | | | |

Comments



California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
 831.375.MBAS
 www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB33853

Collection Date/Time: 8/3/2015 16:15 Sample Collector: SALMON M
 Submittal Date/Time: 8/4/2015 9:20 Sample ID

Sample Description: MW-7S

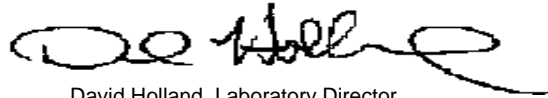
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|--------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 29 | | 2 | 8/5/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 8/6/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | 0.08 | | 0.05 | 8/10/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 1 | | 1 | 8/6/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 199 | | 10 | 8/6/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 35 | | 10 | 8/5/2015 | TC |
| Boron, Dissolved | EPA200.7 | mg/L | Not Detected | | 0.1 | 8/5/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 1.3 | | 0.1 | 9/11/2015 | MW |
| Calcium | EPA200.7 | mg/L | 120 | | 1 | 8/5/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 114 | | 1 | 8/5/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 8/12/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 8/5/2015 | TC |
| Chloride, Dissolved | EPA300.0 | mg/L | 387 | | 1 | 9/11/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 8/21/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | Not Detected | | 3 | 8/4/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 20 | 8/5/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 8/8/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 8/17/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 8/12/2015 | BSK |
| Dissolved Phosphorus | EPA 365.1 | mg/L | 0.040 | E | 0.01 | 8/13/2015 | WECK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 8/11/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.1 | | 0.1 | 9/11/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 8/10/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 547 | | 10 | 8/6/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 8/5/2015 | TC |
| Iodide | EPA9056M | µg/L | Not Detected | E | 10 | 8/15/2015 | WECK |
| Iron | EPA200.7 | µg/L | 33 | | 20 | 8/5/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | 26 | | 20 | 8/5/2015 | MW |
| Kjeldahl Nitrogen, Dissolved | SM 4500 B, D | mg/L | 0.09 | | 0.10 | 8/24/2015 | MW |
| Lithium | EPA200.8 | µg/L | 5 | | 1 | 8/6/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 60 | | 1 | 8/5/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 58 | | 1 | 8/5/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 476 | | 20 | 8/5/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 500 | | 20 | 8/5/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 8/4/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 198 | H | 1 | 9/11/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 44.8 | H | 0.1 | 9/11/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.1 | H | 0.1 | 9/11/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 2 | | 1 | 8/4/2015 | LRH |
| Ortho Phosphate as P | EPA 365.1 | mg/L | 0.035 | E | 0.01 | 8/6/2015 | WECK |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|--|-------------|----------|---------------------|------|-----------|-----|
| pH (Field Test) | SM4500-H+B | pH | 7.05 | | 8/3/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.3 | 0.1 | 8/4/2015 | HM |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 8/12/2015 | BSK |
| Potassium | EPA200.7 | mg/L | 5.9 | 1 | 8/5/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 5.5 | 1 | 8/5/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.68 | | 9/11/2015 | DH |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 8/10/2015 | BSK |
| Silica as SiO ₂ , Dissolved | EPA200.7 | mg/L | 37 | 1 | 8/5/2015 | MW |
| Sodium | EPA200.7 | mg/L | 124 | 1 | 8/5/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 119 | 1 | 8/5/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 1768 | 1 | 8/4/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 1762 | 1 | 8/3/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 1327 | 5 | 8/6/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 61 | 1 | 9/11/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 18.2 | | 8/3/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 1200 | 10 | 8/5/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.30 | 0.05 | 8/4/2015 | ZG |
| Turbidity (Field) | EPA180.1 | NTU | 0.70 | 0.05 | 8/3/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | 8/7/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | 20 | 8/5/2015 | MW |

Sample Comments: Sample was reanalyzed by EPA 300 after QC failure.

Report Approved by:



David Holland, Laboratory Director

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 33853 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 124 | 0.04350 | 5.39 |
| Potassium | 5.9 | 0.02558 | 0.15 |
| Calcium | 120 | 0.04990 | 5.99 |
| Magnesium | 60 | 0.08229 | 4.94 |
| NH3-N | 0.08 | 0.07143 | 0.01 |
| | | SUM | 16.48 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 29 | 0.02000 | 0.58 |
| Sulfate | 61 | 0.02082 | 1.27 |
| Chloride | 387 | 0.02821 | 10.92 |
| Nitrate-Nitrogen | 44.7 | 0.07138 | 3.19 |
| Phosphate-P | 0.09 | 0.01031 | 0.00 |
| Bromide | 1.3 | 0.01252 | 0.02 |
| | | SUM | 15.98 |

ANION-CATION BALANC 2 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-----|
| Conductivity | 1768 | |
| Cation Sum X 100 | 1648 | 93% |
| Anion Sum X 100 | 1598 | 90% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 119 | 0.04350 | 5.18 |
| Potassium | 5.5 | 0.02558 | 0.14 |
| Calcium | 114 | 0.04990 | 5.69 |
| Magnesium | 58 | 0.08229 | 4.77 |
| NH3-N | 0.08 | 0.07143 | 0.01 |
| | | SUM | 15.78 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 29 | 0.02000 | 0.58 |
| Sulfate | 61 | 0.02082 | 1.27 |
| Chloride | 387 | 0.02821 | 10.92 |
| Nitrate-Nitrogen | 44.7 | 0.07138 | 3.19 |
| Phosphate-P | 0.09 | 0.01031 | 0.00 |
| Bromide | 1.3 | 0.01252 | 0.02 |
| | | SUM | 15.98 |

ANION-CATION BA -1 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-----|
| Conductivity | 1768 | |
| Cation Sum X 100 | 1578 | 89% |
| Anion Sum X 100 | 1598 | 90% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 8/5/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria | Time |
|------|-----------------|------------------|-------|---------------------|------|
| ICVB | --- | <10 | --- | < 10 | 9:02 |
| ICV | 40 | 42 | 105 | 95-105 % | 9:02 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|------|
| AB33853 | 29 | 29 | 0 | 5 | 9:02 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 8/10/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.450 | 90.00% | 90-110 | 1100 |
| CCVB1 | --- | 0.02 | --- | <0.05 | 1100 |
| CCV1 | 0.500 | 0.470 | 94.00% | 90-110 | 1100 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB33882 | ND | 0.500 | 0.480 | 0.470 | 96 | 94 | 2.1 | 85-120 | 10 | 1100 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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TKN by Electrode QC Summary (SM 4500-NH3)

Date: 8/24/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1300 |
| ICVL | 0.050 | 0.06 | 120.00% | 90-110 | 1300 |
| ICV | 0.500 | 0.500 | 100.00% | 90-110 | 1300 |
| CCVB1 | --- | 0.02 | --- | <0.05 | 1300 |
| CCV1 | 0.500 | 0.480 | 96.00% | 90-110 | 1300 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB34494 | ND | 0.500 | 0.540 | 0.580 | 108 | 116 | 7.1 | 85-120 | 10 | 1300 |

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RPD = Relative Percent Difference; Rec = Recovery

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300.0 QC Report

All units expressed in mg/L

Batch ID:

20150911

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.04 | 0.14 | 0.03 | 0.31 | 0.00 | 0.00 |
| ICV | 1.93 | 20.15 | 2.08 | 19.86 | 1.83 | 1.94 |
| Rec 90-110% | 96.38 | 100.75 | 103.92 | 99.32 | 91.53 | 97.23 |
| ICVL | 0.19 | 1.91 | 0.20 | 1.95 | 0.22 | 0.22 |
| Rec 50-150% | 95.96 | 95.67 | 100.45 | 97.64 | 111.42 | 110.70 |
| Sample ID AB35294 | 0.06 | 6.56 | 0.17 | 0.43 | 0.09 | 6.46 |
| MS | 1.86 | 26.56 | 2.10 | 19.73 | 1.88 | 8.28 |
| Rec 80-120% | 90.01 | 100.03 | 96.55 | 96.49 | 89.56 | 91.02 |
| MSD | 1.86 | 26.45 | 2.09 | 19.67 | 1.88 | 8.24 |
| Rec 80-120% | 89.82 | 99.47 | 95.96 | 96.20 | 89.25 | 89.36 |
| Diff 10% | 0.21 | 0.43 | 0.57 | 0.29 | 0.33 | 0.40 |
| CCV | 1.96 | 20.28 | 2.09 | 19.93 | 1.84 | 1.95 |
| Rec 90-110% | 97.85 | 101.40 | 104.59 | 99.66 | 91.89 | 97.53 |
| Diff 10% | 1.51 | 0.65 | 0.64 | 0.35 | 0.39 | 0.31 |
| CCVB | 0.04 | 0.14 | 0.03 | 0.31 | 0.00 | 0.08 |



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Color QC Summary (SM 2120B)

Date Analyzed: 8/4/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 10:53 |
| ICV | 5 | 6 | 120.0 | 80-120 | 10:53 |
| CCV | 5 | 6 | 120.0 | 80-120 | 10:53 |
| CCVB | --- | <3 | --- | <3 | 10:53 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|-------|
| AB33784 | Not Detected | Not Detected | na | 10 | 10:53 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 8/4/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1414 | 100.1% | 95-105 | 1505 |
| ICV | 24800 | 24780 | 99.9% | 95-105 | 1530 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB33821 | 1066 | 1066 | 0.0% | 10 | 1505 |
| AB33854 | 1235 | 1227 | 0.6% | 10 | 1515 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 8/4/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.003 | --- | <0.05 | 856 |
| ICVL | 0.05 | 0.049 | 98 | 50-150 | 858 |
| ICV | 0.25 | 0.249 | 99.6 | 80-120 | 945 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB33750 | 0.025 | 0.25 | 0.253 | 0.267 | 91.2 | 96.8 | 5.4 | 80/120 | 10 | 914 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB33838

Date Analyzed
Thursday, August 06, 2015

| | ICVB | QCS 50 | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 97.4 | 27.6 | 50 | 103.2 | 99.3 | 2.5 | 97.2 | 102.7 | 5.50 | 0.03 |
| Aluminum | 0.1 | 100.1 | -1.9 | 50 | 91.7 | 89.0 | 3.1 | 101.3 | 98.6 | 2.69 | 0.10 |
| Arsenic | 0.0 | 90.2 | 8.6 | 50 | 108.6 | 104.1 | 3.7 | 96.0 | 99.4 | 3.43 | 0.15 |
| Strontium | 0.0 | 99.5 | 888.4 | 50 | 150.0 | 95.6 | 2.9 | 99.4 | 98.1 | 1.32 | 0.00 |
| Barium | 0.0 | 96.7 | 194.7 | 50 | 107.8 | 92.3 | 3.2 | 97.1 | 95.8 | 1.28 | 0.00 |

The MS for Strontium was elevated, spike was less than 6% of unspiked sample.

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference

Batch # 20150805

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|--------|--------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.00 | -0.01 | 1.02 | 102.2% | 1.03 | 102.5% | 0.3% | 1 | 1.03 | 103.3% | 1 | 1.0 | 99.3% |
| B 249.772 | 0.05-5ppm | 0.01 | 0.00 | 1.05 | 104.6% | 1.05 | 105.1% | 0.5% | 1 | 1.06 | 106.1% | 1 | 1.0 | 101.7% |
| Ca 317.933 | 50-300ppm | -2.29 | -2.30 | 52.1 | 104.1% | 52.3 | 104.7% | 0.5% | 50 | 51.2 | 102.4% | 50 | 47.3 | 94.6% |
| Ca 396.847 | 0.5-50ppm | -0.64 | -0.65 | 51.6 | 103.1% | 51.0 | 102.0% | 1.1% | 50 | 51.4 | 102.7% | 50 | 49.1 | 98.2% |
| Cu 324.754 | 10ppb-100ppm | -14.40 | -12.46 | 1051 | 105.1% | 1033 | 103.3% | 1.7% | 1000 | 1042 | 104.2% | 1000 | 988.6 | 98.9% |
| Cu 327.395 | 10ppb-100ppm | -10.14 | -10.50 | 1066 | 106.6% | 1052 | 105.2% | 1.3% | 1000 | 1054 | 105.4% | 1000 | 1009.0 | 100.9% |
| Fe 238.204 | 10ppb-100ppm | -0.10 | -3.07 | 1039 | 103.9% | 1028 | 102.8% | 1.1% | 1000 | 1025 | 102.5% | 1000 | 978.0 | 97.8% |
| Fe 259.940 | 10ppb-100ppm | -1.81 | -0.41 | 1018 | 101.8% | 1015 | 101.5% | 0.3% | 1000 | 1016 | 101.6% | 1000 | 981.7 | 98.2% |
| K 766.491 | 0.5-750ppm | 0.04 | 0.04 | 10.3 | 103.4% | 10.2 | 101.7% | 1.7% | 10 | 10.3 | 103.3% | 10 | 9.8 | 97.8% |
| Mg 202.582 | 50-1000ppm | -0.99 | -1.03 | 53.6 | 107.2% | 53.0 | 105.9% | 1.2% | 50 | 53.1 | 106.3% | 50 | 49.9 | 99.9% |
| Mg 279.078 | 0.5-50ppm | -0.11 | -0.11 | 51.9 | 103.9% | 51.3 | 102.7% | 1.2% | 50 | 51.6 | 103.1% | 50 | 48.4 | 96.8% |
| Mn 257.610 | 10ppb-11ppm | -12.16 | -12.75 | 1037 | 103.7% | 1037 | 103.7% | 0.0% | 1000 | 1028 | 102.8% | 1000 | 996.0 | 99.6% |
| Mn 260.568 | 10ppb-11ppm | -11.80 | -11.04 | 1029 | 102.9% | 1030 | 103.0% | 0.0% | 1000 | 1022 | 102.2% | 1000 | 998.9 | 99.9% |
| Na 568.821 | 50-1000ppm | 2.46 | 2.41 | 54.3 | 108.6% | 53.5 | 107.1% | 1.5% | 50 | 54.2 | 108.4% | 50 | 56.5 | 113.0% |
| Na 589.592 | 0.5-50ppm | -0.11 | -0.11 | 52.9 | 105.7% | 51.6 | 103.2% | 2.4% | 50 | 53.0 | 106.0% | 50 | 55.3 | 110.6% |
| Si 251.611 | 0.5-200ppm | -0.05 | -0.20 | 51.8 | 103.6% | 51.5 | 102.9% | 0.6% | 50 | 51.7 | 103.4% | 50 | 49.4 | 98.7% |
| Si 252.411 | 0.5-200ppm | -0.08 | -0.20 | 51.8 | 103.6% | 51.5 | 103.1% | 0.5% | 50 | 51.7 | 103.3% | 50 | 49.0 | 98.0% |
| Zn 213.857 | 10ppb-50ppm | -37.19 | -50.32 | 1023 | 102.3% | 1022 | 102.2% | 0.1% | 1000 | 1026 | 102.6% | 1000 | 963.3 | 96.3% |

Sample ID AB33839

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|--------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.14 | 1.10 | 96.1% | 1.10 | 96.3% | 0.2% | 1 | 1.06 | 105.9% | 2.4% | 0.00 |
| B 249.772 | 0.14 | 1.10 | 95.8% | 1.10 | 95.9% | 0.2% | 1 | 1.05 | 105.3% | 0.8% | 0.01 |
| Ca 317.933 | 56.6 | 107.6 | 101.9% | 107.1 | 101.0% | 0.4% | 50 | 50.3 | 100.6% | 1.7% | -3.18 |
| Ca 396.847 | 55.9 | 92.7 | 73.7% | 94.4 | 77.0% | 1.8% | 50 | 51.0 | 102.0% | 0.7% | -0.33 |
| Cu 324.754 | -4 | 1018 | 102.2% | 1012 | 101.6% | 0.6% | 1000 | 1037 | 103.7% | 0.5% | -3.37 |
| Cu 327.395 | -2 | 1018 | 102.0% | 1014 | 101.6% | 0.3% | 1000 | 1031 | 103.1% | 2.2% | -3.84 |
| Fe 238.204 | 14 | 1029 | 101.5% | 1024 | 101.1% | 0.4% | 1000 | 1038 | 103.8% | 1.3% | -0.96 |
| Fe 259.940 | 14 | 1024 | 101.0% | 1021 | 100.7% | 0.3% | 1000 | 1033 | 103.3% | 1.6% | -0.79 |
| K 766.491 | 2.2 | 12.0 | 98.1% | 12.0 | 98.0% | 0.1% | 10 | 10.1 | 101.1% | 2.2% | 0.07 |
| Mg 202.582 | 25.1 | 75.1 | 100.0% | 74.9 | 99.5% | 0.3% | 50 | 51.1 | 102.3% | 3.8% | -0.97 |
| Mg 279.078 | 25.7 | 74.9 | 98.4% | 74.4 | 97.4% | 0.6% | 50 | 51.6 | 103.1% | 0.0% | -0.03 |
| Mn 257.610 | 62 | 1071 | 100.9% | 1062 | 100.1% | 0.8% | 1000 | 1031 | 103.1% | 0.3% | -2.61 |
| Mn 260.568 | 63 | 1074 | 101.0% | 1065 | 100.2% | 0.8% | 1000 | 1030 | 103.0% | 0.8% | -0.37 |
| Na 568.821 | 31.2 | 79.7 | 97.1% | 78.5 | 94.8% | 1.5% | 50 | 50.8 | 101.6% | 6.4% | 3.18 |
| Na 589.592 | 31.2 | 80.0 | 97.6% | 79.9 | 97.3% | 0.1% | 50 | 51.4 | 102.8% | 3.1% | -0.02 |
| Si 251.611 | 36.5 | 82.5 | 92.1% | 82.0 | 91.0% | 0.6% | 50 | 52.2 | 104.3% | 0.9% | -0.02 |
| Si 252.411 | 36.5 | 82.7 | 92.3% | 82.1 | 91.2% | 0.7% | 50 | 52.5 | 105.0% | 1.6% | 0.00 |
| Zn 213.857 | -25 | 973 | 99.8% | 975 | 99.9% | 0.1% | 1000 | 1019 | 101.9% | 1% | -25.06 |



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pH QC Summary (SM 4500 H+)

Date Analyzed: 8/4/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.86 | 6.85 | 99.9 | 95-105 | 1630 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB33882 | 7.97 | 7.98 | 0 | 10 | 1630 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 8/5/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 8 | --- | <10 | 1410 |
| ICVL | 100 | 117 | 117 | 80-120 | 1410 |
| ICV | 500 | 511 | 102.2 | 90-110 | 1410 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB33822 | 720 | 746 | 3.5 | 10 | 1410 |
| AB33880 | 494 | 520 | 5.1 | 10 | 1455 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Turbidity QC Summary (EPA 180.1)

Date Analyzed: 8/4/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | ND | --- | <0.05 | 900 |
| ICV | 1.00 | 1.03 | 103.0% | 95-105 | 900 |
| CCVB | --- | ND | --- | <0.05 | 900 |
| CCV | 1.00 | 1.03 | 103.0% | 95-105 | 900 |
| ICVB | --- | ND | --- | <0.05 | 900 |
| ICV | 1.00 | 1.04 | 104.0% | 95-105 | 900 |
| CCVB | --- | ND | --- | <0.05 | 900 |
| CCV | 1.00 | 1.03 | 103.0% | 95-105 | 900 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB33854 | 5.8 | 6.0 | 3.39% | 10 | 900 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5H0604

8/18/2015

Invoice: A517271

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5H0604 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 8/6/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

Client: Monterey Bay Analytical
Report To: David Holland
Project #: Cal Am
Received: 8/06/2015 - 15:16
Report Due: 8/20/2015

Invoice To: Monterey Bay Analytical
Invoice Attn: David Holland
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 5.0

Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received On Wet Ice
 Received On Blue Ice
 Packing Material - Bubble Wrap
 Packing Material - Foam
 Sample(s) were received in temperature range.
 Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- MS1.0 Matrix spike recoveries exceed control limits.
- SR3.0 Surrogate recovery exceeds control limits. No material impact as all associated spike recoveries are within acceptable limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5H0604-01

Sampled By: Matan Salmon

Sample Description: MW-7S (monitoring) // AB33853

Sample Date - Time: 08/03/15 - 16:15

Matrix: Ground Water

Sample Type: Grab

BSK Associates Fresno

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A508977 | 08/07/15 | 08/08/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A508977 | 08/07/15 | 08/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 109 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Surrogate: DCPAA | EPA 515.3 | 103 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |

Certificate of Analysis

Sample ID: A5H0604-01

Sampled By: Matan Salmon

Sample Description: MW-7S (monitoring) // AB33853

Sample Date - Time: 08/03/15 - 16:15

Matrix: Ground Water

Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|----------------------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 90 % | | | | | | | Acceptable range: 70-130 % |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 93 % | | | | | | | Acceptable range: 70-130 % |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5H0604-01

Sampled By: Matan Salmon

Sample Description: MW-7S (monitoring) // AB33853

Sample Date - Time: 08/03/15 - 16:15

Matrix: Ground Water

Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 70 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A509010 | 08/10/15 | 08/10/15 | |
| Surrogate: AMPA | EPA 547 | 107 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A508990 | 08/08/15 | 08/11/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A508991 | 08/08/15 | 08/12/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A508977

Prepared: 08/07/2015

Prep Method: EPA 504.1

Analyst: ANM

Blank (A508977-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.56 | | | 0.46 | | 122 | 70-130 | | | 08/07/15 | |

Blank Spike (A508977-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.15 | 0.010 | ug/L | 0.12 | | 121 | 70-130 | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | 0.14 | 0.020 | ug/L | 0.12 | | 112 | 70-130 | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.58 | | | 0.46 | | 128 | 70-130 | | | 08/07/15 | |

Blank Spike Dup (A508977-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.14 | 0.010 | ug/L | 0.12 | | 113 | 70-130 | 7 | 20 | 08/08/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.12 | | 104 | 70-130 | 7 | 20 | 08/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.53 | | | 0.46 | | 115 | 70-130 | | | 08/08/15 | |

Matrix Spike (A508977-MS1), Source: A5H0346-06

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.15 | 0.010 | ug/L | 0.12 | ND | 118 | 65-135 | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | 0.14 | 0.020 | ug/L | 0.12 | ND | 108 | 65-135 | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.58 | | | 0.46 | | 126 | 70-130 | | | 08/07/15 | |

EPA 515.3 - Quality Control

Batch: A509049

Prepared: 08/10/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A509049-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 08/11/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 08/11/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 08/11/15 | |

Blank Spike (A509049-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | | | 08/11/15 | |
| 2,4,5-TP (Silvex) | 0.86 | 1.0 | ug/L | 0.80 | | 108 | 70-130 | | | 08/11/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | | 112 | 70-130 | | | 08/11/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | | 103 | 70-130 | | | 08/11/15 | |
| Dalapon | 4.2 | 10 | ug/L | 4.0 | | 104 | 70-130 | | | 08/11/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | | 108 | 70-130 | | | 08/11/15 | |
| Dinoseb | 0.86 | 2.0 | ug/L | 0.80 | | 108 | 70-130 | | | 08/11/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 101 | 70-130 | | | 08/11/15 | |
| Picloram | 0.36 | 1.0 | ug/L | 0.40 | | 90 | 70-130 | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A508944-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A508944-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 08/07/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 08/07/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 97 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 08/07/15 | |

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| 1,1,1-Trichloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.4 | 10 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloroethene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloropropene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,2,3-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| 1,2,4-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| 1,2,4-Trimethylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,2-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 1,2-Dichloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 1,2-Dichloropropane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,3,5-Trimethylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,3-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 1,3-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 1,4-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 2,2-Dichloropropane | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | | | 08/07/15 | |
| 2-Butanone | 9.6 | 5.0 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 2-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 2-Hexanone | 8.7 | 10 | ug/L | 10 | | 87 | 70-130 | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 4-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 4-Methyl-2-pentanone | 8.3 | 5.0 | ug/L | 10 | | 83 | 70-130 | | | 08/07/15 | |
| Acetone | 9.2 | 10 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Benzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Bromobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Bromochloromethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 08/07/15 | |
| Bromodichloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Bromoform | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| Bromomethane | 7.7 | 0.50 | ug/L | 10 | | 77 | 70-130 | | | 08/07/15 | |
| Carbon disulfide | 11 | 10 | ug/L | 10 | | 106 | 70-130 | | | 08/07/15 | |
| Carbon Tetrachloride | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Chlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| Chloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| Chloroform | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Chloromethane | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 08/07/15 | |
| cis-1,2-Dichloroethene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| cis-1,3-Dichloropropene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| Dibromochloromethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| Dichlorodifluoromethane | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/07/15 | |
| Di-isopropyl ether (DIPE) | 8.8 | 3.0 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | | | 08/07/15 | |
| Ethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Hexachlorobutadiene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| Isopropylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | | | 08/07/15 | |
| Methyl-t-butyl ether | 18 | 0.50 | ug/L | 20 | | 89 | 70-130 | | | 08/07/15 | |
| Naphthalene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| n-Butylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| n-Propylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| o-Xylene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| p-Isopropyltoluene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 08/07/15 | |
| sec-Butylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 08/07/15 | |
| Styrene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | | | 08/07/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 101 | 70-130 | | | 08/07/15 | |
| tert-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Tetrachloroethene (PCE) | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Toluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| trans-1,2-Dichloroethene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| trans-1,3-Dichloropropene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| Trichloroethene (TCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| Trichlorofluoromethane | 10 | 5.0 | ug/L | 10 | | 100 | 70-130 | | | 08/07/15 | |
| Vinyl Chloride | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|-----------------------------------|----|--|--|----|--|-----|--------|--|--|----------|--|
| Surrogate: 1,2-Dichlorobenzene-d4 | 51 | | | 50 | | 103 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 102 | 70-130 | | | 08/07/15 | |

Blank Spike Dup (A508944-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 1 | 30 | 08/07/15 | |
| 1,1,1-Trichloroethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.0 | 10 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,1,2-Trichloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloroethene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloropropene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2,3-Trichlorobenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 3 | 30 | 08/07/15 | |
| 1,2,4-Trichlorobenzene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 3 | 30 | 08/07/15 | |
| 1,2,4-Trimethylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2-Dichlorobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,2-Dichloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2-Dichloropropane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3,5-Trimethylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3-Dichloropropane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,4-Dichlorobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| 2,2-Dichloropropane | 7.9 | 0.50 | ug/L | 10 | | 79 | 70-130 | 5 | 30 | 08/07/15 | |
| 2-Butanone | 8.6 | 5.0 | ug/L | 10 | | 86 | 70-130 | 11 | 30 | 08/07/15 | |
| 2-Chlorotoluene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| 2-Hexanone | 8.3 | 10 | ug/L | 10 | | 83 | 70-130 | 4 | 30 | 08/07/15 | |
| 4-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| 4-Methyl-2-pentanone | 8.1 | 5.0 | ug/L | 10 | | 81 | 70-130 | 2 | 30 | 08/07/15 | |
| Acetone | 8.7 | 10 | ug/L | 10 | | 87 | 70-130 | 5 | 30 | 08/07/15 | |
| Benzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| Bromochloromethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 9 | 30 | 08/07/15 | |
| Bromodichloromethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromoform | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromomethane | 7.7 | 0.50 | ug/L | 10 | | 77 | 70-130 | 0 | 30 | 08/07/15 | |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 100 | 70-130 | 6 | 30 | 08/07/15 | |
| Carbon Tetrachloride | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 5 | 30 | 08/07/15 | |
| Chlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 08/07/15 | |
| Chloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Chloroform | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| Chloromethane | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 2 | 30 | 08/07/15 | |
| cis-1,2-Dichloroethene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/07/15 | |
| cis-1,3-Dichloropropene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 5 | 30 | 08/07/15 | |
| Dibromochloromethane | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | 5 | 30 | 08/07/15 | |
| Dibromomethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A508944-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| Dichlorodifluoromethane | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | 2 | 30 | 08/07/15 | |
| Dichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 08/07/15 | |
| Di-isopropyl ether (DIPE) | 8.7 | 3.0 | ug/L | 10 | | 87 | 70-130 | 1 | 30 | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 2 | 30 | 08/07/15 | |
| Ethylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Hexachlorobutadiene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 5 | 30 | 08/07/15 | |
| Isopropylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 6 | 30 | 08/07/15 | |
| m,p-Xylenes | 18 | 0.50 | ug/L | 20 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| Methyl-t-butyl ether | 17 | 0.50 | ug/L | 20 | | 85 | 70-130 | 4 | 30 | 08/07/15 | |
| Naphthalene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 3 | 30 | 08/07/15 | |
| n-Butylbenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 4 | 30 | 08/07/15 | |
| n-Propylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| o-Xylene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| p-Isopropyltoluene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| sec-Butylbenzene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| Styrene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 5 | 30 | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | 0 | 30 | 08/07/15 | |
| tert-Butyl alcohol (TBA) | 9.8 | 2.0 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 08/07/15 | |
| tert-Butylbenzene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| Tetrachloroethene (PCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 1 | 30 | 08/07/15 | |
| Toluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 08/07/15 | |
| trans-1,2-Dichloroethene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| trans-1,3-Dichloropropene | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 5 | 30 | 08/07/15 | |
| Trichloroethene (TCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Trichlorofluoromethane | 9.3 | 5.0 | ug/L | 10 | | 93 | 70-130 | 7 | 30 | 08/07/15 | |
| Vinyl Chloride | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 50 | | | 50 | | 100 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 99 | 70-130 | | | 08/07/15 | |

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A508940-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 08/11/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 08/11/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 08/11/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A508940-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Molinate | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.8 | | | 5.0 | | 96 | 70-130 | | | 08/11/15 | |

Blank Spike (A508940-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 109 | 70-130 | | | 08/11/15 | |
| Atrazine | 0.50 | 0.50 | ug/L | 0.50 | | 100 | 70-130 | | | 08/11/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 116 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 104 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 109 | 70-130 | | | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 120 | 70-130 | | | 08/11/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 108 | 70-130 | | | 08/11/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | | 100 | 70-130 | | | 08/11/15 | |
| Dimethoate | 0.83 | 10 | ug/L | 1.0 | | 83 | 70-130 | | | 08/11/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 108 | 70-130 | | | 08/11/15 | |
| Metribuzin | 0.97 | 0.50 | ug/L | 1.0 | | 97 | 70-130 | | | 08/11/15 | |
| Molinate | 0.94 | 2.0 | ug/L | 1.0 | | 94 | 70-130 | | | 08/11/15 | |
| Prometryn | 1.6 | 2.0 | ug/L | 2.0 | | 79 | 70-130 | | | 08/11/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 102 | 70-130 | | | 08/11/15 | |
| Simazine | 0.34 | 1.0 | ug/L | 0.35 | | 97 | 70-130 | | | 08/11/15 | |
| Thiobencarb | 0.49 | 1.0 | ug/L | 0.50 | | 99 | 70-130 | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.6 | | | 5.0 | | 92 | 70-130 | | | 08/11/15 | |

Blank Spike Dup (A508940-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | 3 | 30 | 08/11/15 | |
| Atrazine | 0.53 | 0.50 | ug/L | 0.50 | | 106 | 70-130 | 5 | 30 | 08/11/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 117 | 70-130 | 1 | 30 | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 105 | 70-130 | 1 | 30 | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 106 | 70-130 | 3 | 30 | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 121 | 70-130 | 1 | 30 | 08/11/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 104 | 70-130 | 4 | 30 | 08/11/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.20 | | 94 | 70-130 | 7 | 30 | 08/11/15 | |
| Dimethoate | 0.84 | 10 | ug/L | 1.0 | | 84 | 70-130 | 1 | 30 | 08/11/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 104 | 70-130 | 3 | 30 | 08/11/15 | |
| Metribuzin | 0.95 | 0.50 | ug/L | 1.0 | | 95 | 70-130 | 2 | 30 | 08/11/15 | |
| Molinate | 0.88 | 2.0 | ug/L | 1.0 | | 88 | 70-130 | 7 | 30 | 08/11/15 | |
| Prometryn | 1.4 | 2.0 | ug/L | 2.0 | | 71 | 70-130 | 10 | 30 | 08/11/15 | |
| Propachlor | 0.49 | 0.50 | ug/L | 0.50 | | 98 | 70-130 | 4 | 30 | 08/11/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 104 | 70-130 | 7 | 30 | 08/11/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 103 | 70-130 | 5 | 30 | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.3 | | | 5.0 | | 85 | 70-130 | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A508940-MS1), Source: A5H0423-01

| | | | | | | | | | | | |
|--|------|------|------|------|----|-----|--------|--|--|----------|------------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | ND | 110 | 70-130 | | | 08/11/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.50 | ND | 112 | 70-130 | | | 08/11/15 | |
| Benzo(a)pyrene | 0.15 | 0.10 | ug/L | 0.10 | ND | 152 | 70-130 | | | 08/11/15 | MS1.0 High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | ND | 110 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 110 | 70-130 | | | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | ND | 116 | 70-130 | | | 08/11/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | ND | 111 | 70-130 | | | 08/11/15 | |
| Diazinon | 0.21 | 0.25 | ug/L | 0.20 | ND | 104 | 70-130 | | | 08/11/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 1.0 | ND | 101 | 70-130 | | | 08/11/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 106 | 70-130 | | | 08/11/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | ND | 109 | 70-130 | | | 08/11/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | ND | 100 | 70-130 | | | 08/11/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | ND | 102 | 70-130 | | | 08/11/15 | |
| Propachlor | 0.53 | 0.50 | ug/L | 0.50 | ND | 106 | 70-130 | | | 08/11/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | ND | 103 | 70-130 | | | 08/11/15 | |
| Thiobencarb | 0.53 | 1.0 | ug/L | 0.50 | ND | 106 | 70-130 | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.6 | | | 5.0 | | 91 | 70-130 | | | 08/11/15 | |

EPA 531.1 - Quality Control

Batch: A509108

Prepared: 08/11/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A509108-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 08/12/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 08/12/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 08/12/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |

Blank Spike (A509108-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 99 | 80-120 | | | 08/12/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | | 94 | 80-120 | | | 08/12/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |
| Aldicarb Sulfoxide | 3.9 | 3.0 | ug/L | 4.0 | | 98 | 80-120 | | | 08/12/15 | |
| Carbaryl | 3.9 | 5.0 | ug/L | 4.0 | | 98 | 80-120 | | | 08/12/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 101 | 80-120 | | | 08/12/15 | |
| Methiocarb | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | | | 08/12/15 | |
| Methomyl | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | | | 08/12/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A509108

Prepared: 08/11/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike Dup (A509108-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 3.8 | 3.0 | ug/L | 4.0 | | 95 | 80-120 | 5 | 20 | 08/13/15 | |
| Aldicarb | 3.4 | 3.0 | ug/L | 4.0 | | 85 | 80-120 | 10 | 20 | 08/13/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 08/13/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 08/13/15 | |
| Carbaryl | 4.2 | 5.0 | ug/L | 4.0 | | 105 | 80-120 | 7 | 20 | 08/13/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | | 97 | 80-120 | 4 | 20 | 08/13/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | 5 | 20 | 08/13/15 | |
| Methomyl | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | 0 | 20 | 08/13/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 08/13/15 | |
| Propoxur | 3.8 | 2.0 | ug/L | 4.0 | | 95 | 80-120 | 5 | 20 | 08/13/15 | |

Matrix Spike (A509108-MS1), Source: A5H0575-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 08/12/15 | |
| Aldicarb | 3.4 | 3.0 | ug/L | 4.0 | ND | 85 | 65-135 | | | 08/12/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 08/12/15 | |
| Aldicarb Sulfoxide | 3.9 | 3.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 08/12/15 | |
| Carbaryl | 4.0 | 5.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 08/12/15 | |
| Methiocarb | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Methomyl | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 102 | 65-135 | | | 08/12/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | ND | 97 | 65-135 | | | 08/12/15 | |

EPA 547 - Quality Control

Batch: A509010

Prepared: 08/10/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A509010-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 08/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 101 | 70-130 | | | 08/10/15 | |

Blank Spike (A509010-BS1)

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|--|----|--------|--|--|----------|--|
| Glyphosate | 89 | 25 | ug/L | 100 | | 89 | 70-130 | | | 08/10/15 | |
| Surrogate: AMPA | 85 | | | 100 | | 85 | 70-130 | | | 08/10/15 | |

Blank Spike Dup (A509010-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | | 103 | 70-130 | 15 | 30 | 08/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 105 | 70-130 | | | 08/10/15 | |

Matrix Spike (A509010-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|--|
| Glyphosate | 110 | 25 | ug/L | 100 | ND | 109 | 70-130 | | | 08/10/15 | |
| Surrogate: AMPA | 88 | | | 100 | | 87 | 70-130 | | | 08/10/15 | |

Matrix Spike Dup (A509010-MSD1), Source: A5H0189-01

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 547 - Quality Control

Batch: A509010

Prepared: 08/10/2015

Prep Method: EPA 547

Analyst: WPR

Matrix Spike Dup (A509010-MSD1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|---|----|----------|-------|
| Glyphosate | 100 | 25 | ug/L | 100 | ND | 102 | 70-130 | 7 | 30 | 08/10/15 | |
| Surrogate: AMPA | 130 | | | 100 | | 134 | 70-130 | | | 08/10/15 | SR3.0 |

EPA 548.1 - Quality Control

Batch: A508990

Prepared: 08/08/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A508990-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 08/11/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A508990-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 17 | 45 | ug/L | 20 | | 85 | 46-116 | | | 08/11/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A508990-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|
| Endothall | 15 | 45 | ug/L | 20 | | 77 | 46-116 | 10 | 30 | 08/11/15 | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|

Matrix Spike (A508990-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|
| Endothall | ND | 45 | ug/L | 20 | ND | 0 | 46-116 | | | 08/11/15 | MS1.0 Low |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|

EPA 549.2 - Quality Control

Batch: A508991

Prepared: 08/08/2015

Prep Method: EPA 549.2

Analyst: MTM

Blank (A508991-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 08/12/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A508991-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.6 | 4.0 | ug/L | 4.0 | | 89 | 70-130 | | | 08/12/15 | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A508991-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.6 | 4.0 | ug/L | 4.0 | | 90 | 70-130 | 1 | 30 | 08/12/15 | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|

Matrix Spike (A508991-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.7 | 4.0 | ug/L | 4.0 | ND | 93 | 70-130 | | | 08/12/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792016-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5H0604



08062015

Monte6227

Turnaround: Standard

Due Date: 8/20/2015



Monterey Bay Analytical





Sample Integrity

BSK Bottles: Yes No

Page 1 of 1

| COC Info | Was temperature within range? Chemistry ≤ 6°C Micro < 10°C | | | Were correct containers and preservatives received for the tests requested? | | | |
|---|---|--------------|--------------------|---|-----------|--------------|--------------------|
| | Yes | No | NA | Yes | No | NA | |
| COC Info | If samples were taken today, is there evidence that chilling has begun? | | | Yes | No | NA | |
| | Did all bottles arrive unbroken and intact? | | | Yes | No | NA | |
| | Did all bottle labels agree with COC? | | | Yes | No | NA | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | | Yes | No | NA | |
| COC Info | Were there bubbles in the VOA vials? (Volatiles Only) | | | Yes | No | NA | |
| | Was a sufficient amount of sample received? | | | Yes | No | NA | |
| COC Info | Do samples have a hold time <72 hours? | | | Yes | No | NA | |
| | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | | Yes | No | NA | |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | |
| | Bacti Na ₂ S ₂ O ₃ | — | — | | | | |
| | None (P) ^{White Cap} | — | — | | | | |
| | Cr6 (P) ^{Br. Green Label} NH ₄ OH(NH ₄) ₂ SO ₄ DW | Cl, pH > 8 | Y | N | | | |
| | Cr6 (P) ^{Pink Label} NH ₄ OH(NH ₄) ₂ SO ₄ WW | pH 9.3-9.7 | Y | N | | | |
| | Cr6 (P) ^{Pink Label} NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME*** | pH 9.0-9.5 | Y | N | | | |
| | HNO ₃ (P) ^{Red Cap} | — | — | | | | |
| | H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y | N | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | |
| | Na ₂ O ₃ S+HCl (AG) ^{Lt. Pink Label} 525 | — | — | | 2C | | |
| | Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549 | — | — | | 1C | | |
| | Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | — | — | | 2A | | |
| | Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505 | — | — | | 4V | | |
| | Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531 | pH < 3 | Y | N | 1V | | |
| | NH ₄ Cl (AG) ^{Purple Label} 552 | — | — | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | |
| | HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624 | — | — | | 3V | | |
| | Buffer pH 4 (CG) | — | — | | | | |
| | None (CG) | — | — | | | | |
| | H ₃ PO ₄ (CG) ^{Salmon Label} | — | — | | | | |
| | Other: | | | | | | |
| | Asbestos 1Liter Plastic w/ Foil | — | — | | | | |
| | Low Level Hg / Metals Double Baggie | — | — | | | | |
| | Bottled Water | — | — | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | |
| | Container | Preservative | Date/Time/Initials | | Container | Preservative | Date/Time/Initials |
| | S P | | | | S P | | |
| | S P | | | | S P | | |

oej
8/6/15

114 @ 18:12

Labels checked by: 86 @ 1821

RUSH Paged by: @

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

August 18, 2015

Ceres ID: 10752

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on August 12, 2015. This sample was analyzed 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

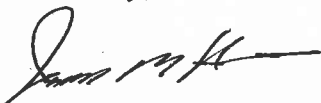
This work was authorized under M.B.A.'s Project # AB33853.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10752-001 | MW-7S (monitoring) | 8/12/2015 | 8/3/2015 16:15 |

Section II: Data Summary

| | | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------------------|----------------------------|-------------------|-----------|
| Sample ID: Method Blank | | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB33853 | | Sample Size: | 1.000 L | | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | | ZB-5 MS Analysis Date: | 17-Aug-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers | |
| 2,3,7,8-TCDD | ND | 1.37 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 99.9 | 31 - 137 | | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 110 | 42 - 164 | | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | | |
| Analyst: JMH | | | Reviewed by: BS | | | | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|-----------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB33853 | | Sample Size: | 1.000 L | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | ZB-5 MS Analysis Date: | 17-Aug-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 11.0 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 97.3 | 25-141 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 11.2 | 3.7-15.8 | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-7S (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10752-001 | | Date Received: 12-Aug-15 |
| Project: AB33853 | | | Sample Size: 1.021 L | | QC Batch #: 1350 | | Date Extracted: 13-Aug-15 |
| Date Collected: 3-Aug-15 | | | | | ZB-5 MS Analysis Date: 17-Aug-15 | | |
| Time Collected: 16:15 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 2.53 | | | IS ¹³ C-2,3,7,8-TCDD | 82.8 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 101 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: _____
 Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

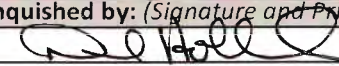

| Client Information | Invoice Information (if different from Client Info) | Project Information |
|--|--|--|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: mweidner@mbasinc.com | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | | Date | Time | Matrix | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 1 | MW-7S (monitoring) | 8/3/2015 | 1615 | Aq | 1 | X | | | | | | AB33853 |
| 2 | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | Please include excel |
| 4 | | | | | | | | | | | | report |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|-----------|-------|--|---------|-------|
| D. Holland  | 8/11/2015 | 16:00 |  Aleksey Neov | 8/12/15 | 10:07 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10752</u> | Date/Time: <u>8/12/15</u> <u>10:06</u> |
| Client Project ID: <u>AB33853</u> | Received Temp: <u>0.3</u> °C Acceptable: <u>Y</u> / N |
| Chain of Custody Relinquished by signed? | <u>Y</u> / N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <u>NA</u> |
| Unlabeled / Illegible Samples | Y / N |
| Proper Containers: | Y / N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <u>Y</u> / N |
| Drinking Water, Sodium Thiosulfate present? | Y / N / NA |
| Aqueous sample pH: <u>7</u> | |
| List COC discrepancies: | |
| YUAN 8/12/15 | |
| List Damaged Samples: | |
| YUAN 8/12/15 | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10752 PB: 1350 Sample #: 1 Due Date: 8/26/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Method: 1653B
 SOP #: 3011

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|-------------------|-------------------|----|-------------------|----|-------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1350-MB001 | Method Blank | | 1.000L | 8/13/15 YCH | 8/14/15 YCH | NA | 8/14/15 | NA | 8/14/15 YCH |
| 0-1350-OPR001 | OPR | | 1.000L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10752-1350-001 | MW-7S (monitoring) | ✓ | 1.021L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 15:00 8/13/15
 Soxhlet Stop: 07:25 8/14/15

Samples Logged out by: 19:00 8/13/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: B2A17
 Extracts to Instrument: 11:00 8/14/15
 Extracts returned to Storage Location: 8/17/15 16:00

Chemist: [Signature]

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|-------|-----------------|
| ISS | S02115A | 10 μl | 2/10/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 20 μl | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|--------------------|-----------|-----------|
| Toluene | 450 ml | C15B12BLK | 7/30/16 |
| Hexanes | 30, 30, 100, 20 ml | C15C13BLK | 7/30/16 |
| S. Gel | 4 g | P071615A | 1/16/16 |
| Basic Gel | 4 g | P061915A | 12/19/15 |
| Acid Gel | 8 g | P071615B | 1/16/16 |
| Acid Al | 6 g | P072915A | 1/29/16 |
| Na ₂ SO ₄ | 1.5 g | P041515A | 10/15/15 |
| 20% Decm Hex | 30 ml | L070515A | 1/5/16 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Chemist: 

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 08/26/15 13:56 |
| Attention: David Holland | Received Date: 08/05/15 11:40 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5H05116 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

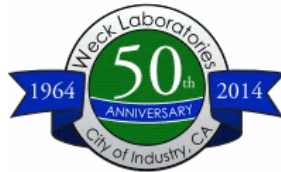
Dear David Holland :

Enclosed are the results of analyses for samples received 08/05/15 11:40 with the Chain of Custody document. The samples were received in good condition, at 4.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

ANALYTICAL REPORT FOR SAMPLES

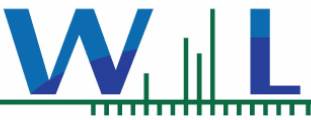
| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|-----------------|--------------|------------|--------|----------------|
| MW-7S (AB33853) | Matan Salmon | 5H05116-01 | Water | 08/03/15 16:15 |

ANALYSES

Anions by IC, EPA Method 9056

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

5H05116-01 MW-7S**Sampled:** 08/03/15 16:15**Sampled By:** Matan Salmon**Matrix:** Water**Anions by IC, EPA Method 9056**

Method: EPA 9056M

Batch: W5H0730

Prepared: 08/15/15 09:00

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 10 | ug/l | 1 | 08/15/15 10:36 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5H0358

Prepared: 08/07/15 14:10

Analyst: Paolo Lorenzo A. Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--------------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 08/21/15 00:25 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 08/21/15 00:25 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Endrin | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 08/21/15 00:25 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 08/21/15 00:25 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 08/21/15 00:25 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 08/21/15 00:25 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 08/21/15 00:25 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 08/21/15 00:25 | |
| <i>Surr: Decachlorobiphenyl</i> | 83 % | Conc:0.0827 | 70-130 | % | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 77 % | Conc:0.0767 | 70-130 | % | | |



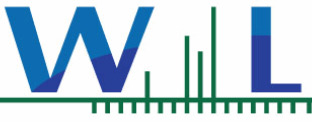
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

5H05116-01 MW-7S**Sampled:** 08/03/15 16:15**Sampled By:** Matan Salmon**Matrix:** Water**Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods**

| Method: EPA 365.3 | Batch: W5H0269 | Prepared: 08/06/15 10:58 | Analyst: Nina Katrina Reyes Aranas | | | |
|-------------------------|----------------|--------------------------|------------------------------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | 0.035 | 0.010 | mg/l | 1 | 08/06/15 13:02 | |

| Method: EPA 365.3 | Batch: W5H0551 | Prepared: 08/11/15 16:08 | Analyst: Nhat Duy M Nguyen | | | |
|------------------------------|----------------|--------------------------|----------------------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | 0.040 | 0.010 | mg/l | 1 | 08/13/15 17:35 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Anions by IC, EPA Method 9056 - Quality Control

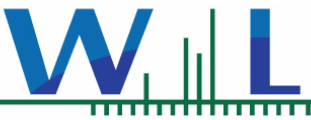
Batch W5H0730 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|--------------------------|---------------|-----|--------------------------|-----|-----------|-----------------|
| Blank (W5H0730-BLK1) | | | | Analyzed: 08/15/15 09:49 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5H0730-BS1) | | | | Analyzed: 08/15/15 10:04 | | | | | | |
| Iodide | 40.2 | 10 | ug/l | 40.0 | | 101 | 85-115 | | | |
| Matrix Spike (W5H0730-MS1) | | | | Source: 5H13010-01 | | | Analyzed: 08/15/15 11:45 | | | |
| Iodide | 7160 | 1000 | ug/l | 4000 | 3250 | 98 | 80-120 | | | |
| Matrix Spike Dup (W5H0730-MSD1) | | | | Source: 5H13010-01 | | | Analyzed: 08/15/15 12:05 | | | |
| Iodide | 7440 | 1000 | ug/l | 4000 | 3250 | 105 | 80-120 | 4 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|-----|--------------|-----|-----------|-----------------|
| Blank (W5H0358-BLK1) | | | | Analyzed: 08/20/15 19:48 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |



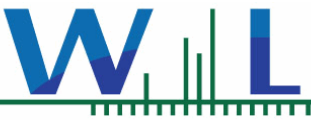
Monterey Bay Analytical Services
 4 Justin Court, Suite D
 Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0358-BLK1) | | | | Analyzed: 08/20/15 19:48 | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0840 | | ug/l | 0.100 | | 84 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0452 | | ug/l | 0.100 | | 45 | 70-130 | | | S-11 |
| LCS (W5H0358-BS1) | | | | Analyzed: 08/20/15 20:19 | | | | | | |
| 4,4'-DDD | 0.119 | 0.010 | ug/l | 0.100 | | 119 | 55-142 | | | |
| 4,4'-DDE | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 49-129 | | | |
| 4,4'-DDT | 0.127 | 0.010 | ug/l | 0.100 | | 127 | 54-160 | | | |
| Aldrin | 0.0835 | 0.010 | ug/l | 0.100 | | 84 | 29-115 | | | |
| alpha-BHC | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-131 | | | |
| beta-BHC | 0.114 | 0.010 | ug/l | 0.100 | | 114 | 63-136 | | | |
| delta-BHC | 0.120 | 0.010 | ug/l | 0.100 | | 120 | 59-137 | | | |
| Dieldrin | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-135 | | | |
| Endosulfan I | 0.0719 | 0.010 | ug/l | 0.100 | | 72 | 28-138 | | | |
| Endosulfan II | 0.0842 | 0.010 | ug/l | 0.100 | | 84 | 53-133 | | | |
| Endosulfan sulfate | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 58-155 | | | |
| Endrin | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 57-148 | | | |
| Endrin aldehyde | 0.0996 | 0.010 | ug/l | 0.100 | | 100 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-129 | | | |
| Heptachlor | 0.0978 | 0.010 | ug/l | 0.100 | | 98 | 42-136 | | | |
| Heptachlor epoxide | 0.0991 | 0.010 | ug/l | 0.100 | | 99 | 59-134 | | | |
| Methoxychlor | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.106 | | ug/l | 0.100 | | 106 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0547 | | ug/l | 0.100 | | 55 | 70-130 | | | S-11 |
| Matrix Spike (W5H0358-MS1) | | | | Source: 5H06096-03 | | Analyzed: 08/20/15 20:50 | | | | |
| 4,4'-DDD | 0.0771 | 0.020 | ug/l | 0.100 | ND | 77 | 62-144 | | | M-04 |
| 4,4'-DDE | 0.0730 | 0.020 | ug/l | 0.100 | ND | 73 | 53-134 | | | M-04 |
| 4,4'-DDT | 0.0583 | 0.020 | ug/l | 0.100 | ND | 58 | 48-170 | | | M-04 |
| Aldrin | 0.0429 | 0.020 | ug/l | 0.100 | ND | 43 | 49-107 | | | M-04, MS-05 |
| alpha-BHC | 0.0625 | 0.020 | ug/l | 0.100 | ND | 62 | 47-125 | | | M-04 |
| beta-BHC | 0.0597 | 0.020 | ug/l | 0.100 | ND | 60 | 62-123 | | | M-04, MS-05 |
| delta-BHC | 0.0653 | 0.020 | ug/l | 0.100 | ND | 65 | 56-140 | | | M-04 |
| Dieldrin | 0.0823 | 0.020 | ug/l | 0.100 | ND | 82 | 65-135 | | | M-04 |



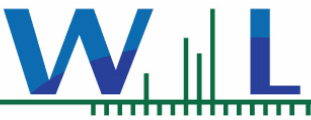
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------------|--------|-------|---------------------------|-------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Matrix Spike (W5H0358-MS1) | | | Source: 5H06096-03 | | | Analyzed: 08/20/15 20:50 | | | | |
| Endosulfan I | 0.0417 | 0.020 | ug/l | 0.100 | ND | 42 | 28-119 | | | M-04 |
| Endosulfan II | 0.0471 | 0.020 | ug/l | 0.100 | ND | 47 | 56-127 | | | M-04, MS-05 |
| Endosulfan sulfate | 0.0606 | 0.020 | ug/l | 0.100 | ND | 61 | 72-171 | | | M-04, MS-05 |
| Endrin | 0.0814 | 0.020 | ug/l | 0.100 | ND | 81 | 53-123 | | | M-04 |
| Endrin aldehyde | 0.0326 | 0.020 | ug/l | 0.100 | ND | 33 | 34-158 | | | M-04, MS-05 |
| gamma-BHC (Lindane) | 0.0628 | 0.020 | ug/l | 0.100 | ND | 63 | 49-126 | | | M-04 |
| Heptachlor | 0.0542 | 0.020 | ug/l | 0.100 | ND | 54 | 56-155 | | | M-04, MS-05 |
| Heptachlor epoxide | 0.0552 | 0.020 | ug/l | 0.100 | ND | 55 | 55-137 | | | M-04 |
| Methoxychlor | 0.0550 | 0.020 | ug/l | 0.100 | ND | 55 | 44-192 | | | M-04 |
| Surr: Decachlorobiphenyl | 0.0705 | | ug/l | 0.100 | | 70 | 70-130 | | | M-04 |
| Surr: Tetrachloro-meta-xylene | 0.0308 | | ug/l | 0.100 | | 31 | 70-130 | | | M-04, S-11 |
| Matrix Spike (W5H0358-MS2) | | | Source: 5H06094-03 | | | Analyzed: 08/20/15 21:51 | | | | |
| 4,4'-DDD | 0.0819 | 0.010 | ug/l | 0.100 | ND | 82 | 62-144 | | | |
| 4,4'-DDE | 0.0834 | 0.010 | ug/l | 0.100 | ND | 83 | 53-134 | | | |
| 4,4'-DDT | 0.0880 | 0.010 | ug/l | 0.100 | ND | 88 | 48-170 | | | |
| Aldrin | 0.0723 | 0.010 | ug/l | 0.100 | ND | 72 | 49-107 | | | |
| alpha-BHC | 0.0669 | 0.010 | ug/l | 0.100 | ND | 67 | 47-125 | | | |
| beta-BHC | 0.0713 | 0.010 | ug/l | 0.100 | ND | 71 | 62-123 | | | |
| delta-BHC | 0.0884 | 0.010 | ug/l | 0.100 | ND | 88 | 56-140 | | | |
| Dieldrin | 0.0698 | 0.010 | ug/l | 0.100 | ND | 70 | 65-135 | | | |
| Endosulfan I | 0.0523 | 0.010 | ug/l | 0.100 | ND | 52 | 28-119 | | | |
| Endosulfan II | 0.0554 | 0.010 | ug/l | 0.100 | ND | 55 | 56-127 | | | MS-05 |
| Endosulfan sulfate | 0.0796 | 0.010 | ug/l | 0.100 | ND | 80 | 72-171 | | | |
| Endrin | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 53-123 | | | |
| Endrin aldehyde | 0.0828 | 0.010 | ug/l | 0.100 | ND | 83 | 34-158 | | | |
| gamma-BHC (Lindane) | 0.0712 | 0.010 | ug/l | 0.100 | ND | 71 | 49-126 | | | |
| Heptachlor | 0.0736 | 0.010 | ug/l | 0.100 | ND | 74 | 56-155 | | | |
| Heptachlor epoxide | 0.0753 | 0.010 | ug/l | 0.100 | ND | 75 | 55-137 | | | |
| Methoxychlor | 0.0782 | 0.010 | ug/l | 0.100 | ND | 78 | 44-192 | | | |
| Surr: Decachlorobiphenyl | 0.0757 | | ug/l | 0.100 | | 76 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0522 | | ug/l | 0.100 | | 52 | 70-130 | | | S-11 |
| Matrix Spike (W5H0358-MS3) | | | Source: 5H06090-01 | | | Analyzed: 08/20/15 22:53 | | | | |
| 4,4'-DDD | 0.103 | 0.010 | ug/l | 0.100 | ND | 103 | 62-144 | | | |
| 4,4'-DDE | 0.101 | 0.010 | ug/l | 0.100 | ND | 101 | 53-134 | | | |
| 4,4'-DDT | 0.113 | 0.010 | ug/l | 0.100 | ND | 113 | 48-170 | | | |
| Aldrin | 0.0789 | 0.010 | ug/l | 0.100 | ND | 79 | 49-107 | | | |
| alpha-BHC | 0.0899 | 0.010 | ug/l | 0.100 | ND | 90 | 47-125 | | | |



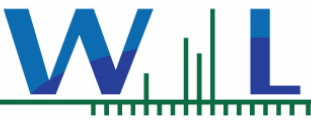
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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|---------------------------|-------------|---------------------------------|-----|--------------|-----|-----------|-----------------|
| Matrix Spike (W5H0358-MS3) | | | Source: 5H06090-01 | | Analyzed: 08/20/15 22:53 | | | | | |
| beta-BHC | 0.101 | 0.010 | ug/l | 0.100 | ND | 101 | 62-123 | | | |
| delta-BHC | 0.106 | 0.010 | ug/l | 0.100 | ND | 106 | 56-140 | | | |
| Dieldrin | 0.0984 | 0.010 | ug/l | 0.100 | ND | 98 | 65-135 | | | |
| Endosulfan I | 0.0639 | 0.010 | ug/l | 0.100 | ND | 64 | 28-119 | | | |
| Endosulfan II | 0.0739 | 0.010 | ug/l | 0.100 | ND | 74 | 56-127 | | | |
| Endosulfan sulfate | 0.116 | 0.010 | ug/l | 0.100 | ND | 116 | 72-171 | | | |
| Endrin | 0.0997 | 0.010 | ug/l | 0.100 | ND | 100 | 53-123 | | | |
| Endrin aldehyde | 0.0867 | 0.010 | ug/l | 0.100 | ND | 87 | 34-158 | | | |
| gamma-BHC (Lindane) | 0.0938 | 0.010 | ug/l | 0.100 | ND | 94 | 49-126 | | | |
| Heptachlor | 0.0932 | 0.010 | ug/l | 0.100 | ND | 93 | 56-155 | | | |
| Heptachlor epoxide | 0.0926 | 0.010 | ug/l | 0.100 | ND | 93 | 55-137 | | | |
| Methoxychlor | 0.121 | 0.010 | ug/l | 0.100 | ND | 121 | 44-192 | | | |
| Surr: Decachlorobiphenyl | 0.0863 | | ug/l | 0.100 | | 86 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0541 | | ug/l | 0.100 | | 54 | 70-130 | | | S-11 |
| Matrix Spike Dup (W5H0358-MSD1) | | | Source: 5H06096-03 | | Analyzed: 08/20/15 21:20 | | | | | |
| 4,4'-DDD | 0.0865 | 0.020 | ug/l | 0.100 | ND | 87 | 62-144 | 11 | 25 | M-04 |
| 4,4'-DDE | 0.0817 | 0.020 | ug/l | 0.100 | ND | 82 | 53-134 | 11 | 25 | M-04 |
| 4,4'-DDT | 0.0620 | 0.020 | ug/l | 0.100 | ND | 62 | 48-170 | 6 | 25 | M-04 |
| Aldrin | 0.0553 | 0.020 | ug/l | 0.100 | ND | 55 | 49-107 | 25 | 25 | M-04 |
| alpha-BHC | 0.0696 | 0.020 | ug/l | 0.100 | ND | 70 | 47-125 | 11 | 25 | M-04 |
| beta-BHC | 0.0621 | 0.020 | ug/l | 0.100 | ND | 62 | 62-123 | 4 | 25 | M-04 |
| delta-BHC | 0.0688 | 0.020 | ug/l | 0.100 | ND | 69 | 56-140 | 5 | 25 | M-04 |
| Dieldrin | 0.0917 | 0.020 | ug/l | 0.100 | ND | 92 | 65-135 | 11 | 25 | M-04 |
| Endosulfan I | 0.0440 | 0.020 | ug/l | 0.100 | ND | 44 | 28-119 | 5 | 25 | M-04 |
| Endosulfan II | 0.0506 | 0.020 | ug/l | 0.100 | ND | 51 | 56-127 | 7 | 25 | M-04, |
| Endosulfan sulfate | 0.0640 | 0.020 | ug/l | 0.100 | ND | 64 | 72-171 | 6 | 25 | MS-05, |
| Endrin | 0.0852 | 0.020 | ug/l | 0.100 | ND | 85 | 53-123 | 5 | 25 | M-04, |
| Endrin aldehyde | 0.0358 | 0.020 | ug/l | 0.100 | ND | 36 | 34-158 | 9 | 25 | M-04 |
| gamma-BHC (Lindane) | 0.0676 | 0.020 | ug/l | 0.100 | ND | 68 | 49-126 | 7 | 25 | M-04 |
| Heptachlor | 0.0615 | 0.020 | ug/l | 0.100 | ND | 62 | 56-155 | 13 | 25 | M-04 |
| Heptachlor epoxide | 0.0620 | 0.020 | ug/l | 0.100 | ND | 62 | 55-137 | 11 | 25 | M-04 |
| Methoxychlor | 0.0585 | 0.020 | ug/l | 0.100 | ND | 58 | 44-192 | 6 | 25 | M-04 |
| Surr: Decachlorobiphenyl | 0.0770 | | ug/l | 0.100 | | 77 | 70-130 | | | M-04 |
| Surr: Tetrachloro-meta-xylene | 0.0362 | | ug/l | 0.100 | | 36 | 70-130 | | | M-04, |
| Matrix Spike Dup (W5H0358-MSD2) | | | Source: 5H06094-03 | | Analyzed: 08/20/15 22:22 | | | | | |
| 4,4'-DDD | 0.0915 | 0.010 | ug/l | 0.100 | ND | 92 | 62-144 | 11 | 25 | |
| 4,4'-DDE | 0.0857 | 0.010 | ug/l | 0.100 | ND | 86 | 53-134 | 3 | 25 | |
| 4,4'-DDT | 0.0965 | 0.010 | ug/l | 0.100 | ND | 96 | 48-170 | 9 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|---------------------------|-------------|---------------------------------|-----|--------------|-----|-----------|-----------------|
| Matrix Spike Dup (W5H0358-MSD2) | | | Source: 5H06094-03 | | Analyzed: 08/20/15 22:22 | | | | | |
| Aldrin | 0.0794 | 0.010 | ug/l | 0.100 | ND | 79 | 49-107 | 9 | 25 | |
| alpha-BHC | 0.0753 | 0.010 | ug/l | 0.100 | ND | 75 | 47-125 | 12 | 25 | |
| beta-BHC | 0.0825 | 0.010 | ug/l | 0.100 | ND | 83 | 62-123 | 15 | 25 | |
| delta-BHC | 0.0981 | 0.010 | ug/l | 0.100 | ND | 98 | 56-140 | 10 | 25 | |
| Dieldrin | 0.0736 | 0.010 | ug/l | 0.100 | ND | 74 | 65-135 | 5 | 25 | |
| Endosulfan I | 0.0553 | 0.010 | ug/l | 0.100 | ND | 55 | 28-119 | 6 | 25 | |
| Endosulfan II | 0.0622 | 0.010 | ug/l | 0.100 | ND | 62 | 56-127 | 12 | 25 | |
| Endosulfan sulfate | 0.0941 | 0.010 | ug/l | 0.100 | ND | 94 | 72-171 | 17 | 25 | |
| Endrin | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-123 | 8 | 25 | |
| Endrin aldehyde | 0.0809 | 0.010 | ug/l | 0.100 | ND | 81 | 34-158 | 2 | 25 | |
| gamma-BHC (Lindane) | 0.0771 | 0.010 | ug/l | 0.100 | ND | 77 | 49-126 | 8 | 25 | |
| Heptachlor | 0.0819 | 0.010 | ug/l | 0.100 | ND | 82 | 56-155 | 11 | 25 | |
| Heptachlor epoxide | 0.0820 | 0.010 | ug/l | 0.100 | ND | 82 | 55-137 | 9 | 25 | |
| Methoxychlor | 0.0917 | 0.010 | ug/l | 0.100 | ND | 92 | 44-192 | 16 | 25 | |
| Surr: Decachlorobiphenyl | 0.0799 | | ug/l | 0.100 | | 80 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0490 | | ug/l | 0.100 | | 49 | 70-130 | | | S-11 |
| Matrix Spike Dup (W5H0358-MSD3) | | | Source: 5H06090-01 | | Analyzed: 08/20/15 23:23 | | | | | |
| 4,4'-DDD | 0.115 | 0.010 | ug/l | 0.100 | ND | 115 | 62-144 | 11 | 25 | |
| 4,4'-DDE | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-134 | 9 | 25 | |
| 4,4'-DDT | 0.122 | 0.010 | ug/l | 0.100 | ND | 122 | 48-170 | 7 | 25 | |
| Aldrin | 0.0916 | 0.010 | ug/l | 0.100 | ND | 92 | 49-107 | 15 | 25 | |
| alpha-BHC | 0.0989 | 0.010 | ug/l | 0.100 | ND | 99 | 47-125 | 9 | 25 | |
| beta-BHC | 0.109 | 0.010 | ug/l | 0.100 | ND | 109 | 62-123 | 7 | 25 | |
| delta-BHC | 0.112 | 0.010 | ug/l | 0.100 | ND | 112 | 56-140 | 5 | 25 | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | ND | 108 | 65-135 | 10 | 25 | |
| Endosulfan I | 0.0700 | 0.010 | ug/l | 0.100 | ND | 70 | 28-119 | 9 | 25 | |
| Endosulfan II | 0.0795 | 0.010 | ug/l | 0.100 | ND | 80 | 56-127 | 7 | 25 | |
| Endosulfan sulfate | 0.136 | 0.010 | ug/l | 0.100 | ND | 136 | 72-171 | 16 | 25 | |
| Endrin | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-123 | 9 | 25 | |
| Endrin aldehyde | 0.0975 | 0.010 | ug/l | 0.100 | ND | 98 | 34-158 | 12 | 25 | |
| gamma-BHC (Lindane) | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 49-126 | 9 | 25 | |
| Heptachlor | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 56-155 | 10 | 25 | |
| Heptachlor epoxide | 0.100 | 0.010 | ug/l | 0.100 | ND | 100 | 55-137 | 8 | 25 | |
| Methoxychlor | 0.132 | 0.010 | ug/l | 0.100 | ND | 132 | 44-192 | 9 | 25 | |
| Surr: Decachlorobiphenyl | 0.0928 | | ug/l | 0.100 | | 93 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0621 | | ug/l | 0.100 | | 62 | 70-130 | | | S-11 |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W5H0269 - EPA 365.3



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W5H0269 - EPA 365.3

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0269-BLK1) | | | | Analyzed: 08/06/15 13:02 | | | | | | |
| o-Phosphate as P | ND | 0.010 | mg/l | | | | | | | |
| LCS (W5H0269-BS1) | | | | Analyzed: 08/06/15 13:02 | | | | | | |
| o-Phosphate as P | 0.204 | 0.010 | mg/l | 0.200 | | 102 | 88-111 | | | |
| Matrix Spike (W5H0269-MS1) | | | | Source: 5H05116-01 | | Analyzed: 08/06/15 13:02 | | | | |
| o-Phosphate as P | 0.244 | 0.010 | mg/l | 0.200 | 0.0351 | 104 | 85-112 | | | |
| Matrix Spike Dup (W5H0269-MSD1) | | | | Source: 5H05116-01 | | Analyzed: 08/06/15 13:02 | | | | |
| o-Phosphate as P | 0.246 | 0.010 | mg/l | 0.200 | 0.0351 | 105 | 85-112 | 0.8 | 20 | |

Batch W5H0551 - EPA 365.3

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0551-BLK1) | | | | Analyzed: 08/13/15 17:35 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | | | | | | |
| LCS (W5H0551-BS1) | | | | Analyzed: 08/13/15 17:35 | | | | | | |
| Phosphorus, Dissolved | 0.216 | 0.010 | mg/l | 0.200 | | 108 | 90-110 | | | |
| Matrix Spike (W5H0551-MS1) | | | | Source: 5H05109-01 | | Analyzed: 08/13/15 17:35 | | | | |
| Phosphorus, Dissolved | 0.246 | 0.010 | mg/l | 0.200 | 0.0350 | 106 | 85-108 | | | |
| Matrix Spike Dup (W5H0551-MSD1) | | | | Source: 5H05109-01 | | Analyzed: 08/13/15 17:35 | | | | |
| Phosphorus, Dissolved | 0.244 | 0.010 | mg/l | 0.200 | 0.0350 | 104 | 85-108 | 0.8 | 20 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:56

Notes and Definitions

| | |
|--------------|---|
| S-11 | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| MS-05 | The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| M-04 | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | |
|--|------------------------------------|--|---|-------------------------------------|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland |
| Dissolved metals sample was filtered in the field using 0.45 um filter | | | | |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|-------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|-------------------|-------------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 33853 | A | MW-7S | 8/3/15 | 16:15 | 12.8 | | | | | | | | | |
| | | | | | | | | | | | | | Field Parameters: | |
| | | | | | | | | | | | | | Temp: | 18.2 °C |
| | | | | | | | | | | | | | pH: | 7.05 |
| | | | | | | | | | | | | | Sp Cond: | 176.2 µS/cm |
| | | | | | | | | | | | | | Turb: | 0.70 NTU |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|--------------|-----------|--------|-------|---|
| Sampled by: | Matan Salmon | | 8/3/15 | 16:15 | Is sample for regulatory purposes? <input checked="" type="radio"/> Yes / <input type="radio"/> No |
| Relinquished by: | Matan Salmon | | 8/4/15 | 9:30 | |
| Received by: | MBAS | | 8/4/15 | 0920 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|



Monterey Bay Analytical Services

California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS

www.MBASinc.com

ELAP Certification Number: 2385

Page 1 of 2

Saturday, September 12, 2015

Lab Number: AB33743

Collection Date/Time: 8/2/2015 11:25 Sample Collector: SALMON M
 Submittal Date/Time: 8/3/2015 8:25 Sample ID

Sample Description: MW-7M

| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|---------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 98 | | 2 | 8/5/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | 18 | | 10 | 8/6/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 8/10/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 4 | | 1 | 8/6/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 282 | | 10 | 8/6/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 120 | | 10 | 8/5/2015 | TC |
| Boron, Dissolved | EPA200.7 | mg/L | Not Detected | | 0.25 | 8/5/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 6.6 | | 0.4 | 8/4/2015 | TC |
| Calcium | EPA200.7 | mg/L | 507 | | 5 | 8/5/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 520 | | 5 | 8/5/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 8/12/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 8/5/2015 | TC |
| Chloride, Dissolved | EPA300.0 | mg/L | 1739 | | 4 | 8/4/2015 | TC |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 8/20/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | Not Detected | | 3 | 8/4/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 100 | 8/5/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 8/8/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 8/17/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 8/12/2015 | BSK |
| Dissolved Phosphorus | EPA 365.1 | mg/L | 0.017 | E | 0.01 | 8/13/2015 | WECK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 8/11/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | Not Detected | | 0.4 | 8/4/2015 | TC |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 8/10/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 2044 | | 10 | 9/11/2015 | DH |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 8/5/2015 | TC |
| Iodide | EPA9056M | µg/L | Not Detected | E | 50 | 8/15/2015 | WECK |
| Iron | EPA200.7 | µg/L | Not Detected | | 100 | 8/5/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | Not Detected | | 100 | 8/5/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 8/14/2015 | TC |
| Lithium | EPA200.8 | µg/L | 29 | | 1 | 8/6/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 189 | | 5 | 8/5/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 192 | | 5 | 8/5/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 372 | | 100 | 8/5/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 372 | | 100 | 8/5/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 8/4/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 15 | | 4.0 | 8/4/2015 | TC |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 3.4 | | 0.40 | 8/4/2015 | TC |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | Not Detected | | 0.4 | 8/4/2015 | TC |
| Odor Threshold at 60 C | SM2150B | TON | 2 | H | 1 | 8/4/2015 | LRH |
| Ortho Phosphate as P | EPA 365.1 | mg/L | 0.016 | E | 0.01 | 8/6/2015 | WECK |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL

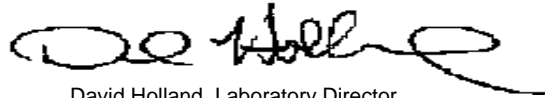
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|--|-------------|----------|--------------|------|-----------|-----|
| pH (Field Test) | SM4500-H+B | pH | 7.17 | | 8/2/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.2 | 0.1 | 8/3/2015 | LRH |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 8/12/2015 | BSK |
| Potassium | EPA200.7 | mg/L | 10 | 5 | 8/5/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 10 | 5.0 | 8/5/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.68 | | 8/5/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 8/11/2015 | BSK |
| Silica as SiO ₂ , Dissolved | EPA200.7 | mg/L | 30 | 5 | 8/5/2015 | MW |
| Sodium | EPA200.7 | mg/L | 338 | 5 | 8/5/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 342 | 5 | 8/5/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 5650 | 1 | 8/3/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 5507 | 1 | 8/2/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 3689 | 5 | 8/6/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 176 | 4 | 8/4/2015 | TC |
| Temperature (Field) | SM2550 | ° C | 18.4 | | 8/2/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 3832 | 10 | 8/3/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.20 | 0.05 | 8/3/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.88 | 0.05 | 8/2/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Attached | E | 8/7/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | 100 | 8/5/2015 | MW |

Sample Comments: Odor:Earthy

Report Approved by:



David Holland, Laboratory Director

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 33743 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 338 | 0.04350 | 14.70 |
| Potassium | 10 | 0.02558 | 0.26 |
| Calcium | 507 | 0.04990 | 25.30 |
| Magnesium | 189 | 0.08229 | 15.55 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 55.81 |

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 342 | 0.04350 | 14.88 |
| Potassium | 10 | 0.02558 | 0.26 |
| Calcium | 520 | 0.04990 | 25.95 |
| Magnesium | 192 | 0.08229 | 15.80 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 56.88 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 98 | 0.02000 | 1.96 |
| Sulfate | 176 | 0.02082 | 3.66 |
| Chloride | 1739 | 0.02821 | 49.06 |
| Nitrate-Nitrogen | 3.4 | 0.07138 | 0.24 |
| Phosphate-P | 0.04 | 0.01031 | 0.00 |
| Bromide | 6.6 | 0.01252 | 0.08 |
| | | SUM | 55.01 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 98 | 0.02000 | 1.96 |
| Sulfate | 176 | 0.02082 | 3.66 |
| Chloride | 1739 | 0.02821 | 49.06 |
| Nitrate-Nitrogen | 3.4 | 0.07138 | 0.24 |
| Phosphate-P | 0.04 | 0.01031 | 0.00 |
| Bromide | 6.6 | 0.01252 | 0.08 |
| | | SUM | 55.01 |

ANION-CATION BALANC 1 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-----|
| Conductivity | 5650 | |
| Cation Sum X 100 | 5581 | 99% |
| Anion Sum X 100 | 5501 | 97% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

ANION-CATION BA 2 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|------|
| Conductivity | 5650 | |
| Cation Sum X 100 | 5688 | 101% |
| Anion Sum X 100 | 5501 | 97% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 8/5/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria | Time |
|------|-----------------|------------------|-------|---------------------|------|
| ICVB | --- | <10 | --- | < 10 | 9:02 |
| ICV | 40 | 42 | 105 | 95-105 % | 9:02 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|------|
| AB33827 | 267 | 270 | 1 | 5 | 9:02 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
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 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 8/10/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.450 | 90.00% | 90-110 | 1100 |
| CCVB1 | --- | 0.02 | --- | <0.05 | 1100 |
| CCV1 | 0.500 | 0.470 | 94.00% | 90-110 | 1100 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB33882 | ND | 0.500 | 0.480 | 0.470 | 96 | 94 | 2.1 | 85-120 | 10 | 1100 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 8/3/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1415 | 100.2% | 95-105 | 950 |
| ICV | 24800 | 24830 | 100.1% | 95-105 | 1000 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB33743 | 5650 | 5650 | 0.0% | 10 | 950 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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<http://www.MBASinc.com>

TDS QC Summary (SM 2540C)

Date Analyzed: 8/3/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 3 | --- | <10 | 1350 |
| ICVL | 100 | 111 | 111 | 80-120 | 1350 |
| ICV | 500 | 506 | 101.2 | 90-110 | 1350 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB33735 | 360 | 386 | 7.0 | 10 | 1515 |
| AB33745 | 26900 | 26100 | 3.0 | 10 | 1540 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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<http://www.MBASinc.com>

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 8/14/2015

Time: 1000

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.364 | --- | <0.5 |
| LCS | 10.0 | 9.7 | 97 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB33712 | 1.0 | 10.0 | 11.1 | 10.8 | 101 | 98 | 2.7 | 85-120 | 10 |

2X on LCS, MS, and MSD.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 8/3/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | ND | --- | <0.05 | 1612 |
| ICV | 1.00 | 1.04 | 104.0% | 95-105 | 1612 |
| CCVB | --- | ND | --- | <0.05 | 1612 |
| CCV | 1.00 | 1.05 | 105.0% | 95-105 | 1612 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB33750 | 1.800 | 1.800 | 0.00% | 10 | 1612 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

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<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID:

20150804

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| ICV | 2.07 | 20.17 | 2.20 | 20.76 | 2.19 | 2.06 |
| Rec 90-110% | 103.35 | 100.87 | 109.90 | 103.80 | 109.45 | 103.15 |
| ICVL | 0.19 | 2.40 | 0.20 | 1.93 | 0.22 | 0.49 |
| Rec 50-150% | 92.92 | 119.98 | 100.49 | 96.73 | 110.94 | 246.56 |
| Sample ID AB33750 | 0.74 | 294.74 | 0.05 | 86.41 | 0.98 | 0.02 |
| MS | 2.80 | 318.37 | 2.34 | 107.99 | 3.21 | 2.10 |
| Rec 80-120% | 102.82 | 118.17 | 114.16 | 107.86 | 111.63 | 103.72 |
| MSD | 2.75 | 315.23 | 2.36 | 106.97 | 3.23 | 2.15 |
| Rec 80-120% | 100.69 | 102.46 | 115.41 | 102.78 | 112.51 | 106.14 |
| Diff 10% | 1.54 | 0.99 | 1.07 | 0.94 | 0.55 | 2.28 |
| CCV | 2.02 | 20.23 | 2.13 | 20.99 | 2.18 | 2.08 |
| Rec 90-110% | 101.00 | 101.15 | 106.49 | 104.93 | 109.15 | 103.96 |
| Diff 10% | 2.30 | 0.27 | 3.14 | 1.08 | 0.28 | 0.78 |
| CCVB | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



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Color QC Summary (SM 2120B)

Date Analyzed: 8/4/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 10:53 |
| ICV | 5 | 6 | 120.0 | 80-120 | 10:53 |
| CCV | 5 | 6 | 120.0 | 80-120 | 10:53 |
| CCVB | --- | <3 | --- | <3 | 10:53 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|-------|
| AB33784 | Not Detected | Not Detected | na | 10 | 10:53 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 8/4/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.003 | --- | <0.05 | 856 |
| ICVL | 0.05 | 0.049 | 98 | 50-150 | 858 |
| ICV | 0.25 | 0.249 | 99.6 | 80-120 | 945 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB33750 | 0.025 | 0.25 | 0.253 | 0.267 | 91.2 | 96.8 | 5.4 | 80/120 | 10 | 914 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB33838

Date Analyzed
Thursday, August 06, 2015

| | ICVB | QCS 50 | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 97.4 | 27.6 | 50 | 103.2 | 99.3 | 2.5 | 97.2 | 102.7 | 5.50 | 0.03 |
| Aluminum | 0.1 | 100.1 | -1.9 | 50 | 91.7 | 89.0 | 3.1 | 101.3 | 98.6 | 2.69 | 0.10 |
| Arsenic | 0.0 | 90.2 | 8.6 | 50 | 108.6 | 104.1 | 3.7 | 96.0 | 99.4 | 3.43 | 0.15 |
| Strontium | 0.0 | 99.5 | 888.4 | 50 | 150.0 | 95.6 | 2.9 | 99.4 | 98.1 | 1.32 | 0.00 |
| Barium | 0.0 | 96.7 | 194.7 | 50 | 107.8 | 92.3 | 3.2 | 97.1 | 95.8 | 1.28 | 0.00 |

The MS for Strontium was elevated, spike was less than 6% of unspiked sample.

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference

Batch # 20150805

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|--------|--------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.00 | -0.01 | 1.02 | 102.2% | 1.03 | 102.5% | 0.3% | 1 | 1.03 | 103.3% | 1 | 1.0 | 99.3% |
| B 249.772 | 0.05-5ppm | 0.01 | 0.00 | 1.05 | 104.6% | 1.05 | 105.1% | 0.5% | 1 | 1.06 | 106.1% | 1 | 1.0 | 101.7% |
| Ca 317.933 | 50-300ppm | -2.29 | -2.30 | 52.1 | 104.1% | 52.3 | 104.7% | 0.5% | 50 | 51.2 | 102.4% | 50 | 47.3 | 94.6% |
| Ca 396.847 | 0.5-50ppm | -0.64 | -0.65 | 51.6 | 103.1% | 51.0 | 102.0% | 1.1% | 50 | 51.4 | 102.7% | 50 | 49.1 | 98.2% |
| Cu 324.754 | 10ppb-100ppm | -14.40 | -12.46 | 1051 | 105.1% | 1033 | 103.3% | 1.7% | 1000 | 1042 | 104.2% | 1000 | 988.6 | 98.9% |
| Cu 327.395 | 10ppb-100ppm | -10.14 | -10.50 | 1066 | 106.6% | 1052 | 105.2% | 1.3% | 1000 | 1054 | 105.4% | 1000 | 1009.0 | 100.9% |
| Fe 238.204 | 10ppb-100ppm | -0.10 | -3.07 | 1039 | 103.9% | 1028 | 102.8% | 1.1% | 1000 | 1025 | 102.5% | 1000 | 978.0 | 97.8% |
| Fe 259.940 | 10ppb-100ppm | -1.81 | -0.41 | 1018 | 101.8% | 1015 | 101.5% | 0.3% | 1000 | 1016 | 101.6% | 1000 | 981.7 | 98.2% |
| K 766.491 | 0.5-750ppm | 0.04 | 0.04 | 10.3 | 103.4% | 10.2 | 101.7% | 1.7% | 10 | 10.3 | 103.3% | 10 | 9.8 | 97.8% |
| Mg 202.582 | 50-1000ppm | -0.99 | -1.03 | 53.6 | 107.2% | 53.0 | 105.9% | 1.2% | 50 | 53.1 | 106.3% | 50 | 49.9 | 99.9% |
| Mg 279.078 | 0.5-50ppm | -0.11 | -0.11 | 51.9 | 103.9% | 51.3 | 102.7% | 1.2% | 50 | 51.6 | 103.1% | 50 | 48.4 | 96.8% |
| Mn 257.610 | 10ppb-11ppm | -12.16 | -12.75 | 1037 | 103.7% | 1037 | 103.7% | 0.0% | 1000 | 1028 | 102.8% | 1000 | 996.0 | 99.6% |
| Mn 260.568 | 10ppb-11ppm | -11.80 | -11.04 | 1029 | 102.9% | 1030 | 103.0% | 0.0% | 1000 | 1022 | 102.2% | 1000 | 998.9 | 99.9% |
| Na 568.821 | 50-1000ppm | 2.46 | 2.41 | 54.3 | 108.6% | 53.5 | 107.1% | 1.5% | 50 | 54.2 | 108.4% | 50 | 56.5 | 113.0% |
| Na 589.592 | 0.5-50ppm | -0.11 | -0.11 | 52.9 | 105.7% | 51.6 | 103.2% | 2.4% | 50 | 53.0 | 106.0% | 50 | 55.3 | 110.6% |
| Si 251.611 | 0.5-200ppm | -0.05 | -0.20 | 51.8 | 103.6% | 51.5 | 102.9% | 0.6% | 50 | 51.7 | 103.4% | 50 | 49.4 | 98.7% |
| Si 252.411 | 0.5-200ppm | -0.08 | -0.20 | 51.8 | 103.6% | 51.5 | 103.1% | 0.5% | 50 | 51.7 | 103.3% | 50 | 49.0 | 98.0% |
| Zn 213.857 | 10ppb-50ppm | -37.19 | -50.32 | 1023 | 102.3% | 1022 | 102.2% | 0.1% | 1000 | 1026 | 102.6% | 1000 | 963.3 | 96.3% |

Sample ID AB33839

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|--------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.14 | 1.10 | 96.1% | 1.10 | 96.3% | 0.2% | 1 | 1.06 | 105.9% | 2.4% | 0.00 |
| B 249.772 | 0.14 | 1.10 | 95.8% | 1.10 | 95.9% | 0.2% | 1 | 1.05 | 105.3% | 0.8% | 0.01 |
| Ca 317.933 | 56.6 | 107.6 | 101.9% | 107.1 | 101.0% | 0.4% | 50 | 50.3 | 100.6% | 1.7% | -3.18 |
| Ca 396.847 | 55.9 | 92.7 | 73.7% | 94.4 | 77.0% | 1.8% | 50 | 51.0 | 102.0% | 0.7% | -0.33 |
| Cu 324.754 | -4 | 1018 | 102.2% | 1012 | 101.6% | 0.6% | 1000 | 1037 | 103.7% | 0.5% | -3.37 |
| Cu 327.395 | -2 | 1018 | 102.0% | 1014 | 101.6% | 0.3% | 1000 | 1031 | 103.1% | 2.2% | -3.84 |
| Fe 238.204 | 14 | 1029 | 101.5% | 1024 | 101.1% | 0.4% | 1000 | 1038 | 103.8% | 1.3% | -0.96 |
| Fe 259.940 | 14 | 1024 | 101.0% | 1021 | 100.7% | 0.3% | 1000 | 1033 | 103.3% | 1.6% | -0.79 |
| K 766.491 | 2.2 | 12.0 | 98.1% | 12.0 | 98.0% | 0.1% | 10 | 10.1 | 101.1% | 2.2% | 0.07 |
| Mg 202.582 | 25.1 | 75.1 | 100.0% | 74.9 | 99.5% | 0.3% | 50 | 51.1 | 102.3% | 3.8% | -0.97 |
| Mg 279.078 | 25.7 | 74.9 | 98.4% | 74.4 | 97.4% | 0.6% | 50 | 51.6 | 103.1% | 0.0% | -0.03 |
| Mn 257.610 | 62 | 1071 | 100.9% | 1062 | 100.1% | 0.8% | 1000 | 1031 | 103.1% | 0.3% | -2.61 |
| Mn 260.568 | 63 | 1074 | 101.0% | 1065 | 100.2% | 0.8% | 1000 | 1030 | 103.0% | 0.8% | -0.37 |
| Na 568.821 | 31.2 | 79.7 | 97.1% | 78.5 | 94.8% | 1.5% | 50 | 50.8 | 101.6% | 6.4% | 3.18 |
| Na 589.592 | 31.2 | 80.0 | 97.6% | 79.9 | 97.3% | 0.1% | 50 | 51.4 | 102.8% | 3.1% | -0.02 |
| Si 251.611 | 36.5 | 82.5 | 92.1% | 82.0 | 91.0% | 0.6% | 50 | 52.2 | 104.3% | 0.9% | -0.02 |
| Si 252.411 | 36.5 | 82.7 | 92.3% | 82.1 | 91.2% | 0.7% | 50 | 52.5 | 105.0% | 1.6% | 0.00 |
| Zn 213.857 | -25 | 973 | 99.8% | 975 | 99.9% | 0.1% | 1000 | 1019 | 101.9% | 1% | -25.06 |



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<http://www.MBASinc.com>

pH QC Summary (SM 4500 H+)

Date Analyzed: 8/3/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|-------|
| ICV | 6.86 | 6.88 | 100.3 | 95-105 | 16:30 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|-------|
| AB33753 | 7.4 | 7.4 | 0 | 10 | 16:30 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5H0606

8/18/2015

Invoice: A517272

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5H0606 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 8/6/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

Client: Monterey Bay Analytical
Report To: David Holland
Project #: Cal Am
Received: 8/06/2015 - 15:16
Report Due: 8/20/2015

Invoice To: Monterey Bay Analytical
Invoice Attn: David Holland
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 5.0

Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received On Wet Ice
 Received On Blue Ice
 Packing Material - Bubble Wrap
 Packing Material - Foam
 Sample(s) were received in temperature range.
 Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- MS1.0 Matrix spike recoveries exceed control limits.
- SR3.0 Surrogate recovery exceeds control limits. No material impact as all associated spike recoveries are within acceptable limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5H0606-01
Sampled By: Matan Salmon
Sample Description: MW-7M (monitoring) // AB33743

Sample Date - Time: 08/02/15 - 11:25
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A508977 | 08/07/15 | 08/08/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A508977 | 08/07/15 | 08/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 120 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509049 | 08/10/15 | 08/12/15 | |
| Surrogate: DCPAA | EPA 515.3 | 101 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |

Certificate of Analysis

Sample ID: A5H0606-01

Sampled By: Matan Salmon

Sample Description: MW-7M (monitoring) // AB33743

Sample Date - Time: 08/02/15 - 11:25

Matrix: Ground Water

Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|----------------------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A508944 | 08/07/15 | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 100 % | | | | | | | Acceptable range: 70-130 % |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 102 % | | | | | | | Acceptable range: 70-130 % |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5H0606-01
Sampled By: Matan Salmon
Sample Description: MW-7M (monitoring) // AB33743

Sample Date - Time: 08/02/15 - 11:25
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A508940 | 08/07/15 | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 73 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509108 | 08/11/15 | 08/12/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A509010 | 08/10/15 | 08/10/15 | |
| Surrogate: AMPA | EPA 547 | 102 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A508990 | 08/08/15 | 08/11/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A508991 | 08/08/15 | 08/12/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A508977

Prepared: 08/07/2015

Prep Method: EPA 504.1

Analyst: ANM

Blank (A508977-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.56 | | | 0.46 | | 122 | 70-130 | | | 08/07/15 | |

Blank Spike (A508977-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.15 | 0.010 | ug/L | 0.12 | | 121 | 70-130 | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | 0.14 | 0.020 | ug/L | 0.12 | | 112 | 70-130 | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.58 | | | 0.46 | | 128 | 70-130 | | | 08/07/15 | |

Blank Spike Dup (A508977-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.14 | 0.010 | ug/L | 0.12 | | 113 | 70-130 | 7 | 20 | 08/08/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.12 | | 104 | 70-130 | 7 | 20 | 08/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.53 | | | 0.46 | | 115 | 70-130 | | | 08/08/15 | |

Matrix Spike (A508977-MS1), Source: A5H0346-06

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.15 | 0.010 | ug/L | 0.12 | ND | 118 | 65-135 | | | 08/07/15 | |
| Ethylene Dibromide (EDB) | 0.14 | 0.020 | ug/L | 0.12 | ND | 108 | 65-135 | | | 08/07/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.58 | | | 0.46 | | 126 | 70-130 | | | 08/07/15 | |

EPA 515.3 - Quality Control

Batch: A509049

Prepared: 08/10/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A509049-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 08/11/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 08/11/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 08/11/15 | |

Blank Spike (A509049-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | | | 08/11/15 | |
| 2,4,5-TP (Silvex) | 0.86 | 1.0 | ug/L | 0.80 | | 108 | 70-130 | | | 08/11/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | | 112 | 70-130 | | | 08/11/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | | 103 | 70-130 | | | 08/11/15 | |
| Dalapon | 4.2 | 10 | ug/L | 4.0 | | 104 | 70-130 | | | 08/11/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | | 108 | 70-130 | | | 08/11/15 | |
| Dinoseb | 0.86 | 2.0 | ug/L | 0.80 | | 108 | 70-130 | | | 08/11/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 101 | 70-130 | | | 08/11/15 | |
| Picloram | 0.36 | 1.0 | ug/L | 0.40 | | 90 | 70-130 | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A509049

Prepared: 08/10/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A509049-BS1)

Surrogate: DCPAA 58 58 99 70-130 08/11/15

Blank Spike Dup (A509049-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 109 | 70-130 | 0 | 20 | 08/11/15 | |
| 2,4,5-TP (Silvex) | 0.84 | 1.0 | ug/L | 0.80 | | 105 | 70-130 | 2 | 20 | 08/11/15 | |
| 2,4-D | 0.46 | 10 | ug/L | 0.40 | | 115 | 70-130 | 2 | 20 | 08/11/15 | |
| Bentazon | 8.7 | 2.0 | ug/L | 8.0 | | 109 | 70-130 | 6 | 20 | 08/11/15 | |
| Dalapon | 3.8 | 10 | ug/L | 4.0 | | 96 | 70-130 | 8 | 20 | 08/11/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | | 108 | 70-130 | 0 | 20 | 08/11/15 | |
| Dinoseb | 0.79 | 2.0 | ug/L | 0.80 | | 99 | 70-130 | 9 | 20 | 08/11/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 102 | 70-130 | 1 | 20 | 08/11/15 | |
| Picloram | 0.38 | 1.0 | ug/L | 0.40 | | 96 | 70-130 | 7 | 20 | 08/11/15 | |
| Surrogate: DCPAA | 56 | | | 58 | | 97 | 70-130 | | | 08/11/15 | |

Matrix Spike (A509049-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | ND | 108 | 70-130 | | | 08/11/15 | |
| 2,4,5-TP (Silvex) | 0.86 | 1.0 | ug/L | 0.80 | ND | 108 | 70-130 | | | 08/11/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | ND | 112 | 70-130 | | | 08/11/15 | |
| Bentazon | 8.0 | 2.0 | ug/L | 8.0 | ND | 100 | 70-130 | | | 08/11/15 | |
| Dalapon | 4.4 | 10 | ug/L | 4.0 | ND | 110 | 70-130 | | | 08/11/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | ND | 107 | 70-130 | | | 08/11/15 | |
| Dinoseb | 0.79 | 2.0 | ug/L | 0.80 | ND | 99 | 70-130 | | | 08/11/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 99 | 70-130 | | | 08/11/15 | |
| Picloram | 0.45 | 1.0 | ug/L | 0.40 | ND | 113 | 70-130 | | | 08/11/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 08/11/15 | |

Matrix Spike Dup (A509049-MSD1), Source: A5H0189-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | ND | 107 | 70-130 | 0 | 20 | 08/11/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | ND | 104 | 70-130 | 4 | 20 | 08/11/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | ND | 114 | 70-130 | 2 | 20 | 08/11/15 | |
| Bentazon | 7.9 | 2.0 | ug/L | 8.0 | ND | 98 | 70-130 | 2 | 20 | 08/11/15 | |
| Dalapon | 4.4 | 10 | ug/L | 4.0 | ND | 111 | 70-130 | 0 | 20 | 08/11/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | ND | 108 | 70-130 | 1 | 20 | 08/11/15 | |
| Dinoseb | 0.79 | 2.0 | ug/L | 0.80 | ND | 99 | 70-130 | 0 | 20 | 08/11/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 100 | 70-130 | 2 | 20 | 08/11/15 | |
| Picloram | 0.45 | 1.0 | ug/L | 0.40 | ND | 113 | 70-130 | 0 | 20 | 08/11/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 08/11/15 | |

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A508944-BLK1)

| | | | | | | | | | | | |
|---------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A508944-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 08/07/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A508944-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 08/07/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 08/07/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 08/07/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 97 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 08/07/15 | |

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| 1,1,1-Trichloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.4 | 10 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloroethene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,1-Dichloropropene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,2,3-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| 1,2,4-Trichlorobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| 1,2,4-Trimethylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,2-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 1,2-Dichloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 1,2-Dichloropropane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 1,3,5-Trimethylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| 1,3-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 1,3-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 1,4-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| 2,2-Dichloropropane | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | | | 08/07/15 | |
| 2-Butanone | 9.6 | 5.0 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 2-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| 2-Hexanone | 8.7 | 10 | ug/L | 10 | | 87 | 70-130 | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 4-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| 4-Methyl-2-pentanone | 8.3 | 5.0 | ug/L | 10 | | 83 | 70-130 | | | 08/07/15 | |
| Acetone | 9.2 | 10 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Benzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Bromobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Bromochloromethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 08/07/15 | |
| Bromodichloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Bromoform | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| Bromomethane | 7.7 | 0.50 | ug/L | 10 | | 77 | 70-130 | | | 08/07/15 | |
| Carbon disulfide | 11 | 10 | ug/L | 10 | | 106 | 70-130 | | | 08/07/15 | |
| Carbon Tetrachloride | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Chlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/07/15 | |
| Chloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| Chloroform | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Chloromethane | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 08/07/15 | |
| cis-1,2-Dichloroethene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| cis-1,3-Dichloropropene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| Dibromochloromethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/07/15 | |
| Dichlorodifluoromethane | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/07/15 | |
| Di-isopropyl ether (DIPE) | 8.8 | 3.0 | ug/L | 10 | | 88 | 70-130 | | | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | | | 08/07/15 | |
| Ethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| Hexachlorobutadiene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/07/15 | |
| Isopropylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | | | 08/07/15 | |
| Methyl-t-butyl ether | 18 | 0.50 | ug/L | 20 | | 89 | 70-130 | | | 08/07/15 | |
| Naphthalene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| n-Butylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| n-Propylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| o-Xylene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| p-Isopropyltoluene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 08/07/15 | |
| sec-Butylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 08/07/15 | |
| Styrene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | | | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | | | 08/07/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 101 | 70-130 | | | 08/07/15 | |
| tert-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |
| Tetrachloroethene (PCE) | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/07/15 | |
| Toluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/07/15 | |
| trans-1,2-Dichloroethene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| trans-1,3-Dichloropropene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/07/15 | |
| Trichloroethene (TCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/07/15 | |
| Trichlorofluoromethane | 10 | 5.0 | ug/L | 10 | | 100 | 70-130 | | | 08/07/15 | |
| Vinyl Chloride | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | | | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A508944-BS1)

| | | | | | | | | | | | |
|-----------------------------------|----|--|--|----|--|-----|--------|--|--|----------|--|
| Surrogate: 1,2-Dichlorobenzene-d4 | 51 | | | 50 | | 103 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 102 | 70-130 | | | 08/07/15 | |

Blank Spike Dup (A508944-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 1 | 30 | 08/07/15 | |
| 1,1,1-Trichloroethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.0 | 10 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,1,2-Trichloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloroethene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,1-Dichloropropene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2,3-Trichlorobenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 3 | 30 | 08/07/15 | |
| 1,2,4-Trichlorobenzene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 3 | 30 | 08/07/15 | |
| 1,2,4-Trimethylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2-Dichlorobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,2-Dichloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,2-Dichloropropane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3,5-Trimethylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3-Dichlorobenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| 1,3-Dichloropropane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/07/15 | |
| 1,4-Dichlorobenzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| 2,2-Dichloropropane | 7.9 | 0.50 | ug/L | 10 | | 79 | 70-130 | 5 | 30 | 08/07/15 | |
| 2-Butanone | 8.6 | 5.0 | ug/L | 10 | | 86 | 70-130 | 11 | 30 | 08/07/15 | |
| 2-Chlorotoluene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| 2-Hexanone | 8.3 | 10 | ug/L | 10 | | 83 | 70-130 | 4 | 30 | 08/07/15 | |
| 4-Chlorotoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| 4-Methyl-2-pentanone | 8.1 | 5.0 | ug/L | 10 | | 81 | 70-130 | 2 | 30 | 08/07/15 | |
| Acetone | 8.7 | 10 | ug/L | 10 | | 87 | 70-130 | 5 | 30 | 08/07/15 | |
| Benzene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromobenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| Bromochloromethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 9 | 30 | 08/07/15 | |
| Bromodichloromethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromoform | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 4 | 30 | 08/07/15 | |
| Bromomethane | 7.7 | 0.50 | ug/L | 10 | | 77 | 70-130 | 0 | 30 | 08/07/15 | |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 100 | 70-130 | 6 | 30 | 08/07/15 | |
| Carbon Tetrachloride | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 5 | 30 | 08/07/15 | |
| Chlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 08/07/15 | |
| Chloroethane | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Chloroform | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 4 | 30 | 08/07/15 | |
| Chloromethane | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 2 | 30 | 08/07/15 | |
| cis-1,2-Dichloroethene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/07/15 | |
| cis-1,3-Dichloropropene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 5 | 30 | 08/07/15 | |
| Dibromochloromethane | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | 5 | 30 | 08/07/15 | |
| Dibromomethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 08/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A508944

Prepared: 08/07/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A508944-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| Dichlorodifluoromethane | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | 2 | 30 | 08/07/15 | |
| Dichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 08/07/15 | |
| Di-isopropyl ether (DIPE) | 8.7 | 3.0 | ug/L | 10 | | 87 | 70-130 | 1 | 30 | 08/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 2 | 30 | 08/07/15 | |
| Ethylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Hexachlorobutadiene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | 5 | 30 | 08/07/15 | |
| Isopropylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 6 | 30 | 08/07/15 | |
| m,p-Xylenes | 18 | 0.50 | ug/L | 20 | | 92 | 70-130 | 5 | 30 | 08/07/15 | |
| Methyl-t-butyl ether | 17 | 0.50 | ug/L | 20 | | 85 | 70-130 | 4 | 30 | 08/07/15 | |
| Naphthalene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 3 | 30 | 08/07/15 | |
| n-Butylbenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | 4 | 30 | 08/07/15 | |
| n-Propylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| o-Xylene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 5 | 30 | 08/07/15 | |
| p-Isopropyltoluene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| sec-Butylbenzene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| Styrene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 5 | 30 | 08/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | 0 | 30 | 08/07/15 | |
| tert-Butyl alcohol (TBA) | 9.8 | 2.0 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 08/07/15 | |
| tert-Butylbenzene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 5 | 30 | 08/07/15 | |
| Tetrachloroethene (PCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 1 | 30 | 08/07/15 | |
| Toluene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 08/07/15 | |
| trans-1,2-Dichloroethene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| trans-1,3-Dichloropropene | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | 5 | 30 | 08/07/15 | |
| Trichloroethene (TCE) | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 5 | 30 | 08/07/15 | |
| Trichlorofluoromethane | 9.3 | 5.0 | ug/L | 10 | | 93 | 70-130 | 7 | 30 | 08/07/15 | |
| Vinyl Chloride | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 50 | | | 50 | | 100 | 70-130 | | | 08/07/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 99 | 70-130 | | | 08/07/15 | |

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A508940-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 08/11/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 08/11/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 08/11/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 08/11/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A508940-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Molinate | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 08/11/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 08/11/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.8 | | | 5.0 | | 96 | 70-130 | | | 08/11/15 | |

Blank Spike (A508940-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 109 | 70-130 | | | 08/11/15 | |
| Atrazine | 0.50 | 0.50 | ug/L | 0.50 | | 100 | 70-130 | | | 08/11/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 116 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 104 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 109 | 70-130 | | | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 120 | 70-130 | | | 08/11/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 108 | 70-130 | | | 08/11/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | | 100 | 70-130 | | | 08/11/15 | |
| Dimethoate | 0.83 | 10 | ug/L | 1.0 | | 83 | 70-130 | | | 08/11/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 108 | 70-130 | | | 08/11/15 | |
| Metribuzin | 0.97 | 0.50 | ug/L | 1.0 | | 97 | 70-130 | | | 08/11/15 | |
| Molinate | 0.94 | 2.0 | ug/L | 1.0 | | 94 | 70-130 | | | 08/11/15 | |
| Prometryn | 1.6 | 2.0 | ug/L | 2.0 | | 79 | 70-130 | | | 08/11/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 102 | 70-130 | | | 08/11/15 | |
| Simazine | 0.34 | 1.0 | ug/L | 0.35 | | 97 | 70-130 | | | 08/11/15 | |
| Thiobencarb | 0.49 | 1.0 | ug/L | 0.50 | | 99 | 70-130 | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.6 | | | 5.0 | | 92 | 70-130 | | | 08/11/15 | |

Blank Spike Dup (A508940-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | 3 | 30 | 08/11/15 | |
| Atrazine | 0.53 | 0.50 | ug/L | 0.50 | | 106 | 70-130 | 5 | 30 | 08/11/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 117 | 70-130 | 1 | 30 | 08/11/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 105 | 70-130 | 1 | 30 | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | | 106 | 70-130 | 3 | 30 | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 121 | 70-130 | 1 | 30 | 08/11/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 104 | 70-130 | 4 | 30 | 08/11/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.20 | | 94 | 70-130 | 7 | 30 | 08/11/15 | |
| Dimethoate | 0.84 | 10 | ug/L | 1.0 | | 84 | 70-130 | 1 | 30 | 08/11/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 104 | 70-130 | 3 | 30 | 08/11/15 | |
| Metribuzin | 0.95 | 0.50 | ug/L | 1.0 | | 95 | 70-130 | 2 | 30 | 08/11/15 | |
| Molinate | 0.88 | 2.0 | ug/L | 1.0 | | 88 | 70-130 | 7 | 30 | 08/11/15 | |
| Prometryn | 1.4 | 2.0 | ug/L | 2.0 | | 71 | 70-130 | 10 | 30 | 08/11/15 | |
| Propachlor | 0.49 | 0.50 | ug/L | 0.50 | | 98 | 70-130 | 4 | 30 | 08/11/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 104 | 70-130 | 7 | 30 | 08/11/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 103 | 70-130 | 5 | 30 | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.3 | | | 5.0 | | 85 | 70-130 | | | 08/11/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A508940

Prepared: 08/07/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A508940-MS1), Source: A5H0423-01

| | | | | | | | | | | | |
|--|------|------|------|------|----|-----|--------|--|--|----------|------------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | ND | 110 | 70-130 | | | 08/11/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.50 | ND | 112 | 70-130 | | | 08/11/15 | |
| Benzo(a)pyrene | 0.15 | 0.10 | ug/L | 0.10 | ND | 152 | 70-130 | | | 08/11/15 | MS1.0 High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | ND | 110 | 70-130 | | | 08/11/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 110 | 70-130 | | | 08/11/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | ND | 116 | 70-130 | | | 08/11/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | ND | 111 | 70-130 | | | 08/11/15 | |
| Diazinon | 0.21 | 0.25 | ug/L | 0.20 | ND | 104 | 70-130 | | | 08/11/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 1.0 | ND | 101 | 70-130 | | | 08/11/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 106 | 70-130 | | | 08/11/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | ND | 109 | 70-130 | | | 08/11/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | ND | 100 | 70-130 | | | 08/11/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | ND | 102 | 70-130 | | | 08/11/15 | |
| Propachlor | 0.53 | 0.50 | ug/L | 0.50 | ND | 106 | 70-130 | | | 08/11/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | ND | 103 | 70-130 | | | 08/11/15 | |
| Thiobencarb | 0.53 | 1.0 | ug/L | 0.50 | ND | 106 | 70-130 | | | 08/11/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.6 | | | 5.0 | | 91 | 70-130 | | | 08/11/15 | |

EPA 531.1 - Quality Control

Batch: A509108

Prepared: 08/11/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A509108-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 08/12/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 08/12/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 08/12/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 08/12/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 08/12/15 | |

Blank Spike (A509108-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 99 | 80-120 | | | 08/12/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | | 94 | 80-120 | | | 08/12/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |
| Aldicarb Sulfoxide | 3.9 | 3.0 | ug/L | 4.0 | | 98 | 80-120 | | | 08/12/15 | |
| Carbaryl | 3.9 | 5.0 | ug/L | 4.0 | | 98 | 80-120 | | | 08/12/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 101 | 80-120 | | | 08/12/15 | |
| Methiocarb | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | | | 08/12/15 | |
| Methomyl | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | | | 08/12/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/12/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A509108

Prepared: 08/11/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike Dup (A509108-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 3.8 | 3.0 | ug/L | 4.0 | | 95 | 80-120 | 5 | 20 | 08/13/15 | |
| Aldicarb | 3.4 | 3.0 | ug/L | 4.0 | | 85 | 80-120 | 10 | 20 | 08/13/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 08/13/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 08/13/15 | |
| Carbaryl | 4.2 | 5.0 | ug/L | 4.0 | | 105 | 80-120 | 7 | 20 | 08/13/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | | 97 | 80-120 | 4 | 20 | 08/13/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | 5 | 20 | 08/13/15 | |
| Methomyl | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | 0 | 20 | 08/13/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 08/13/15 | |
| Propoxur | 3.8 | 2.0 | ug/L | 4.0 | | 95 | 80-120 | 5 | 20 | 08/13/15 | |

Matrix Spike (A509108-MS1), Source: A5H0575-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 08/12/15 | |
| Aldicarb | 3.4 | 3.0 | ug/L | 4.0 | ND | 85 | 65-135 | | | 08/12/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 08/12/15 | |
| Aldicarb Sulfoxide | 3.9 | 3.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 08/12/15 | |
| Carbaryl | 4.0 | 5.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Carbofuran | 3.9 | 5.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 08/12/15 | |
| Methiocarb | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Methomyl | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 08/12/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 102 | 65-135 | | | 08/12/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | ND | 97 | 65-135 | | | 08/12/15 | |

EPA 547 - Quality Control

Batch: A509010

Prepared: 08/10/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A509010-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 08/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 101 | 70-130 | | | 08/10/15 | |

Blank Spike (A509010-BS1)

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|--|----|--------|--|--|----------|--|
| Glyphosate | 89 | 25 | ug/L | 100 | | 89 | 70-130 | | | 08/10/15 | |
| Surrogate: AMPA | 85 | | | 100 | | 85 | 70-130 | | | 08/10/15 | |

Blank Spike Dup (A509010-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | | 103 | 70-130 | 15 | 30 | 08/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 105 | 70-130 | | | 08/10/15 | |

Matrix Spike (A509010-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|--|
| Glyphosate | 110 | 25 | ug/L | 100 | ND | 109 | 70-130 | | | 08/10/15 | |
| Surrogate: AMPA | 88 | | | 100 | | 87 | 70-130 | | | 08/10/15 | |

Matrix Spike Dup (A509010-MSD1), Source: A5H0189-01

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 547 - Quality Control

Batch: A509010

Prepared: 08/10/2015

Prep Method: EPA 547

Analyst: WPR

Matrix Spike Dup (A509010-MSD1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|---|----|----------|-------|
| Glyphosate | 100 | 25 | ug/L | 100 | ND | 102 | 70-130 | 7 | 30 | 08/10/15 | |
| Surrogate: AMPA | 130 | | | 100 | | 134 | 70-130 | | | 08/10/15 | SR3.0 |

EPA 548.1 - Quality Control

Batch: A508990

Prepared: 08/08/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A508990-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 08/11/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A508990-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 17 | 45 | ug/L | 20 | | 85 | 46-116 | | | 08/11/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A508990-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|
| Endothall | 15 | 45 | ug/L | 20 | | 77 | 46-116 | 10 | 30 | 08/11/15 | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|

Matrix Spike (A508990-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|
| Endothall | ND | 45 | ug/L | 20 | ND | 0 | 46-116 | | | 08/11/15 | MS1.0 Low |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|

EPA 549.2 - Quality Control

Batch: A508991

Prepared: 08/08/2015

Prep Method: EPA 549.2

Analyst: MTM

Blank (A508991-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 08/12/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A508991-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.6 | 4.0 | ug/L | 4.0 | | 89 | 70-130 | | | 08/12/15 | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A508991-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.6 | 4.0 | ug/L | 4.0 | | 90 | 70-130 | 1 | 30 | 08/12/15 | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|

Matrix Spike (A508991-MS1), Source: A5H0189-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.7 | 4.0 | ug/L | 4.0 | ND | 93 | 70-130 | | | 08/12/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792016-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5H0606

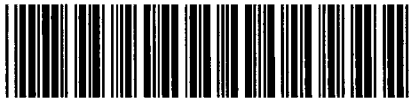


08062015

Monte6227

Turnaround: Standard

Due Date: 8/20/2015



Monterey Bay Analytical



BSK Associates


Ingenieros y Laboratorios

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

S.O

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A5H0606
 Monte6227

 10

Company/Client Name: Monterey Bay Analytical Services

Report Attention*: Mason Weidner-Holland
 Additional cc's: David Holland

Address*: 4 Justin Court, Suite D
 City*: Monterey State*: CA Zip*: 93940

Project: Cal Am

Reporting Options:
 Trace (J-Flag) Swamp EDD Type: _____
 SWRCB (Drinking Water) Fresno Co
 Merced Co Madera Co Tulare Co
 Other: _____

Sampler Name (Printed/Signature)*: Matan Salmon
 Matrix Types: SW=Surface Water BV=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SQ=Solid

| # | Sample Description* | Date | Time | Matrix* | Comments / Station Code / WTRAX | EPA | | | | | | | | | | |
|---|---------------------|--------|------|---------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
| | | | | | | 524 | 504 | 515 | 525 | 531 | 547 | 548 | 549 | | | |
| 1 | MMW-7M (monitoring) | 8/2/15 | 1125 | GW | AB33743 | X | X | X | X | X | X | X | X | X | X | X |

Relinquished by: (Signature and Printed Name) *[Signature]* MBAS Company Date: 8/4/15 Time: 1600
 Received by: (Signature and Printed Name) _____ Company _____

Received for Lab by: (Signature and Printed Name) *[Signature]* UPS GSO WALK-IN FED EX Courier: _____
 Shipping Method: ONTRAC UPS GSO WALK-IN FED EX
 Cooling Method: Wet Blue None

Payment for services rendered as noted herein are due in full within 30 days from the date invoice. If not to paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Chilling Process Begun: Y/N
 Custody Seal: Y/N
 Amount: _____
 Check / Int. Cash
[Signature]



Sample Integrity

BSK Bottles: Yes No Page 6 of 7

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | | Were correct containers and preservatives received for the tests requested? | | | |
|--|---|--------------|--------------------|---|--------------|--------------------|--|
| | Yes | No | NA | Yes | No | NA | |
| COC Info | If samples were taken today, is there evidence that chilling has begun? | | | Were there bubbles in the VOA vials? (Volatiles Only) | | | |
| | Yes | No | NA | Yes | No | NA | |
| COC Info | Did all bottles arrive unbroken and intact? | | | Was a sufficient amount of sample received? | | | |
| | Yes | No | NA | Yes | No | NA | |
| COC Info | Did all bottle labels agree with COC? | | | Do samples have a hold time <72 hours? | | | |
| | Yes | No | NA | Yes | No | NA | |
| COC Info | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | | |
| | Yes | No | NA | Yes | No | NA | |
| Bottles Received <small>"—" means preservation/chlorine checks are either N/A or are performed in the lab</small> | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | |
| | None (P) ^{White Cap} | — | — | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | Cl, pH > 8 | Y | N | | | |
| | Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW | pH 9.3-9.7 | Y | N | | | |
| | Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME*** | pH 9.0-9.5 | Y | N | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y | N | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | 2C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | 1C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | | 2A | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | 4V | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) ^{Orange Label} 531 | pH < 3 | Y | N | 1V | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | |
| | HCL (CG) 524,2,BTEX,Gas, MTBE, 8260/624 | — | — | | 3V | | |
| | Buffer pH 4 (CG) | — | — | | | | |
| | None (CG) | — | — | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | |
| | Other: | | | | | | |
| | Asbestos 1Liter Plastic w/ Foil | — | — | | | | |
| | Low Level Hg / Metals Double Baggie | — | — | | | | |
| | Bottled Water | — | — | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | |
| | S P | | | S P | | | |
| Comments | | | | | | | |
| | | | | | | | |

8/6/15

Labeled by: JH @ 1810

Labels checked by: SB @ 1801

RUSH Paged by: @

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

August 18, 2015

Ceres ID: 10751

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on August 12, 2015. This sample was analyzed 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

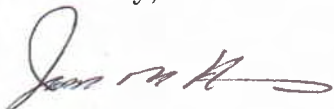
This work was authorized under M.B.A.'s Project # AB33743.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10751-001 | MW-7M (monitoring) | 8/12/2015 | 8/2/2015 11:25 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB33743 | | Sample Size: | 1.000 L | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | ZB-5 MS Analysis Date: 17-Aug-15 | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.37 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 99.9 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 110 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|--|--|---------------------------|-------------------|-----------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB33743 | | Sample Size: | 1.000 L | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | ZB-5 MS Analysis Date: | | 17-Aug-15 | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers | |
| 2,3,7,8-TCDD | 11.0 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 97.3 | 25-141 | | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 11.2 | 3.7-15.8 | | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-7M (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10751-001 | | Date Received: 12-Aug-15 |
| Project: AB33743 | | | Sample Size: 1.013 L | | QC Batch #: 1350 | | Date Extracted: 13-Aug-15 |
| Date Collected: 2-Aug-15 | | | | | ZB-5 MS Analysis Date: 17-Aug-15 | | |
| Time Collected: 11:25 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.92 | | | IS ¹³ C-2,3,7,8-TCDD | 89.5 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 98.2 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: _____
 Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

| Client Information | Invoice Information (if different from Client Info) | Project Information |
|--|--|---|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: mweidner@mbasinc.com | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

- A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|-----------|--------------------|----------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | Date | Time | TEF | | | | | | | | | |
| 1 | MW-7M (monitoring) | 8/2/2015 | 1125 | Aq | 1 | X | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 2 | | | | | | | | | | | | Comments |
| 3 | | | | | | | | | | | | AB33743 |
| 4 | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 5 | | | | | | | | | | | | Please include excel report |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|-----------|-------|---|---------|-------|
| D. Holland  | 8/11/2015 | 16:00 |  | 8/12/15 | 10:06 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | | |
|--|--|---|
| Ceres ID: <u>10751</u> | Date/Time: <u>8/12/15 10:06</u> | |
| Client Project ID: <u>AB33743</u> | Received Temp: <u>0.3</u> °C Acceptable: <input checked="" type="radio"/> Y / <input type="radio"/> N | |
| Chain of Custody Relinquished by signed? | <input checked="" type="radio"/> Y / <input type="radio"/> N | |
| Custody Seals? Present? | <input type="radio"/> Y / <input type="radio"/> N | |
| | Intact? | <input type="radio"/> Y / <input type="radio"/> N |
| | NA: | <input checked="" type="radio"/> NA |
| Unlabeled / Illegible Samples | <input type="radio"/> Y / <input checked="" type="radio"/> N | |
| Proper Containers: | <input checked="" type="radio"/> Y / <input type="radio"/> N | |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <input checked="" type="radio"/> Y / <input type="radio"/> N <u>0.3°C</u> | |
| Drinking Water, Sodium Thiosulfate present? | <input type="radio"/> Y / <input type="radio"/> N / <input type="radio"/> NA | |
| Aqueous sample pH: <u>7</u> | | |
| List COC discrepancies: | | |
| clean 8/12/15 | | |
| List Damaged Samples: | | |
| clean 8/12/15 | | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10751 PB: 1350 Sample #: 1 Due Date: 8/26/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10751-1 | 153339g | 520.14g | 1.013L |
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Chemist: 

Date: 8/13/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|--------------------|--------------------|----|-------------------|----|--------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1350-MB001 | Method Blank | | 1.001L | 8/13/15 <u>YLN</u> | 8/14/15 <u>YLN</u> | NA | 8/14/15 | NA | 8/14/15 <u>YLN</u> |
| 0-1350-OPR001 | OPR | | 1.001L | (A) ↓ ↓ | ↓ ↓ | ↓ | ↓ | ↓ | ↓ ↓ |
| 10751-1350-001 | MW-7M (monitoring) | ✓ | 1.013L | ↓ ↓ | ↓ ↓ | ↓ | ↓ | ↓ | ↓ ↓ |
| | | | | | | | | | |
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Comments (A) OPR spiked with NSS.

Soxhlet Start: 15:00 8/13/15
 Soxhlet Stop: 07:25 8/14/15

Samples Logged out by: 8/13/15 09:00
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 17
 Extracts to Instrument: 11:00 8/14/15
 Extracts returned to Storage Location: 10:20 8/17/15

Chemist: [Signature]

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 10ml | 2/11/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 20ml | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|--------------------------------|----------------|-----------|-----------|
| Toluene | 450ml | C15B12BLK | 7/30/16 |
| Hexanes | 30,30,100,20ml | C15C13BLK | 7/30/16 |
| S-Gel | 4g | P071615A | 1/16/16 |
| Basic Gel | 4g | P061815A | 12/19/15 |
| Acid Gel | 8g | P071615B | 1/16/16 |
| Acid Al | 6g | P072915A | 1/29/16 |
| N ₂ SO ₄ | 1.5g | P041515A | 10/15/15 |
| 20%DCM/Hex | 30ml | L070515A | 1/5/16 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Chemist: 

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 08/26/15 13:54 |
| Attention: David Holland | Received Date: 08/05/15 11:40 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5H05115 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

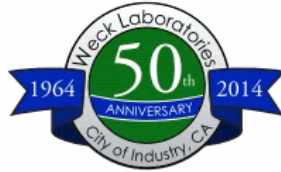
Dear David Holland :

Enclosed are the results of analyses for samples received 08/05/15 11:40 with the Chain of Custody document. The samples were received in good condition, at 4.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|-----------------|--------------|------------|--------|----------------|
| MW-7M (AB33743) | Matan Salmon | 5H05115-01 | Water | 08/02/15 11:25 |

ANALYSES

Anions by IC, EPA Method 9056

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

5H05115-01 MW-7M
Sampled: 08/02/15 11:25 Sampled By: Matan Salmon Matrix: Water

Anions by IC, EPA Method 9056

| Method: EPA 9056M | Batch: W5H0730 | Prepared: 08/15/15 09:00 | Analyst: Alice T. Lee | | | |
|-------------------|----------------|--------------------------|-----------------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Iodide | ND | 50 | ug/l | 5 | 08/15/15 10:22 | M-05 |

Chlorinated Pesticides and/or PCBs

| Method: EPA 508 | Batch: W5H0358 | Prepared: 08/07/15 14:10 | Analyst: Paolo Lorenzo A. Ramirez | | | |
|-------------------------------|----------------|--------------------------|-----------------------------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 08/20/15 23:54 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 08/20/15 23:54 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Endrin | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 08/20/15 23:54 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 08/20/15 23:54 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 08/20/15 23:54 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 08/20/15 23:54 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 08/20/15 23:54 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 08/20/15 23:54 | |
| Surr: Decachlorobiphenyl | 80 % | Conc:0.0802 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 80 % | Conc:0.0803 | 70-130 | % | | |



Monterey Bay Analytical Services
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Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

5H05115-01 MW-7M

Sampled: 08/02/15 11:25

Sampled By: Matan Salmon

Matrix: Water

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| | | | | | | |
|-------------------------|----------------|--------------------------|------------------------------------|-----|----------------|-----------|
| Method: EPA 365.3 | Batch: W5H0269 | Prepared: 08/06/15 10:58 | Analyst: Nina Katrina Reyes Aranas | | | |
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | 0.016 | 0.010 | mg/l | 1 | 08/06/15 13:02 | |

| | | | | | | |
|------------------------------|----------------|--------------------------|----------------------------|-----|----------------|-----------|
| Method: EPA 365.3 | Batch: W5H0551 | Prepared: 08/11/15 16:08 | Analyst: Nhat Duy M Nguyen | | | |
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | 0.017 | 0.010 | mg/l | 1 | 08/13/15 17:35 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Anions by IC, EPA Method 9056 - Quality Control

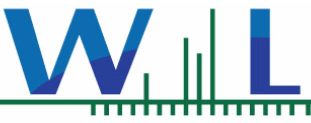
Batch W5H0730 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|--------------------------|---------------|-----|--------------------------|-----|-----------|-----------------|
| Blank (W5H0730-BLK1) | | | | Analyzed: 08/15/15 09:49 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5H0730-BS1) | | | | Analyzed: 08/15/15 10:04 | | | | | | |
| Iodide | 40.2 | 10 | ug/l | 40.0 | | 101 | 85-115 | | | |
| Matrix Spike (W5H0730-MS1) | | | | Source: 5H13010-01 | | | Analyzed: 08/15/15 11:45 | | | |
| Iodide | 7160 | 1000 | ug/l | 4000 | 3250 | 98 | 80-120 | | | |
| Matrix Spike Dup (W5H0730-MSD1) | | | | Source: 5H13010-01 | | | Analyzed: 08/15/15 12:05 | | | |
| Iodide | 7440 | 1000 | ug/l | 4000 | 3250 | 105 | 80-120 | 4 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|-----|--------------|-----|-----------|-----------------|
| Blank (W5H0358-BLK1) | | | | Analyzed: 08/20/15 19:48 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |



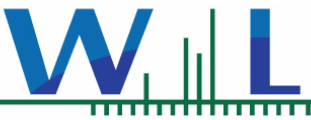
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------------|--------|-------|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0358-BLK1) | | | | Analyzed: 08/20/15 19:48 | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| Surr: Decachlorobiphenyl | 0.0840 | | ug/l | 0.100 | | 84 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0452 | | ug/l | 0.100 | | 45 | 70-130 | | | S-11 |
| LCS (W5H0358-BS1) | | | | Analyzed: 08/20/15 20:19 | | | | | | |
| 4,4'-DDD | 0.119 | 0.010 | ug/l | 0.100 | | 119 | 55-142 | | | |
| 4,4'-DDE | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 49-129 | | | |
| 4,4'-DDT | 0.127 | 0.010 | ug/l | 0.100 | | 127 | 54-160 | | | |
| Aldrin | 0.0835 | 0.010 | ug/l | 0.100 | | 84 | 29-115 | | | |
| alpha-BHC | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-131 | | | |
| beta-BHC | 0.114 | 0.010 | ug/l | 0.100 | | 114 | 63-136 | | | |
| delta-BHC | 0.120 | 0.010 | ug/l | 0.100 | | 120 | 59-137 | | | |
| Dieldrin | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-135 | | | |
| Endosulfan I | 0.0719 | 0.010 | ug/l | 0.100 | | 72 | 28-138 | | | |
| Endosulfan II | 0.0842 | 0.010 | ug/l | 0.100 | | 84 | 53-133 | | | |
| Endosulfan sulfate | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 58-155 | | | |
| Endrin | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 57-148 | | | |
| Endrin aldehyde | 0.0996 | 0.010 | ug/l | 0.100 | | 100 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-129 | | | |
| Heptachlor | 0.0978 | 0.010 | ug/l | 0.100 | | 98 | 42-136 | | | |
| Heptachlor epoxide | 0.0991 | 0.010 | ug/l | 0.100 | | 99 | 59-134 | | | |
| Methoxychlor | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 56-167 | | | |
| Surr: Decachlorobiphenyl | 0.106 | | ug/l | 0.100 | | 106 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0547 | | ug/l | 0.100 | | 55 | 70-130 | | | S-11 |
| Matrix Spike (W5H0358-MS1) | | | | Source: 5H06096-03 | | Analyzed: 08/20/15 20:50 | | | | |
| 4,4'-DDD | 0.0771 | 0.020 | ug/l | 0.100 | ND | 77 | 62-144 | | | M-04 |
| 4,4'-DDE | 0.0730 | 0.020 | ug/l | 0.100 | ND | 73 | 53-134 | | | M-04 |
| 4,4'-DDT | 0.0583 | 0.020 | ug/l | 0.100 | ND | 58 | 48-170 | | | M-04 |
| Aldrin | 0.0429 | 0.020 | ug/l | 0.100 | ND | 43 | 49-107 | | | M-04, MS-05 |
| alpha-BHC | 0.0625 | 0.020 | ug/l | 0.100 | ND | 62 | 47-125 | | | M-04 |
| beta-BHC | 0.0597 | 0.020 | ug/l | 0.100 | ND | 60 | 62-123 | | | M-04, MS-05 |
| delta-BHC | 0.0653 | 0.020 | ug/l | 0.100 | ND | 65 | 56-140 | | | M-04 |
| Dieldrin | 0.0823 | 0.020 | ug/l | 0.100 | ND | 82 | 65-135 | | | M-04 |



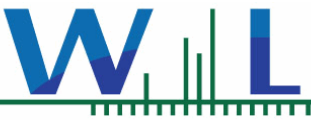
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------------|--------|-------|---------------------------|-------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Matrix Spike (W5H0358-MS1) | | | Source: 5H06096-03 | | | Analyzed: 08/20/15 20:50 | | | | |
| Endosulfan I | 0.0417 | 0.020 | ug/l | 0.100 | ND | 42 | 28-119 | | | M-04 |
| Endosulfan II | 0.0471 | 0.020 | ug/l | 0.100 | ND | 47 | 56-127 | | | M-04, MS-05 |
| Endosulfan sulfate | 0.0606 | 0.020 | ug/l | 0.100 | ND | 61 | 72-171 | | | M-04, MS-05 |
| Endrin | 0.0814 | 0.020 | ug/l | 0.100 | ND | 81 | 53-123 | | | M-04 |
| Endrin aldehyde | 0.0326 | 0.020 | ug/l | 0.100 | ND | 33 | 34-158 | | | M-04, MS-05 |
| gamma-BHC (Lindane) | 0.0628 | 0.020 | ug/l | 0.100 | ND | 63 | 49-126 | | | M-04 |
| Heptachlor | 0.0542 | 0.020 | ug/l | 0.100 | ND | 54 | 56-155 | | | M-04, MS-05 |
| Heptachlor epoxide | 0.0552 | 0.020 | ug/l | 0.100 | ND | 55 | 55-137 | | | M-04 |
| Methoxychlor | 0.0550 | 0.020 | ug/l | 0.100 | ND | 55 | 44-192 | | | M-04 |
| Surr: Decachlorobiphenyl | 0.0705 | | ug/l | 0.100 | | 70 | 70-130 | | | M-04 |
| Surr: Tetrachloro-meta-xylene | 0.0308 | | ug/l | 0.100 | | 31 | 70-130 | | | M-04, S-11 |
| Matrix Spike (W5H0358-MS2) | | | Source: 5H06094-03 | | | Analyzed: 08/20/15 21:51 | | | | |
| 4,4'-DDD | 0.0819 | 0.010 | ug/l | 0.100 | ND | 82 | 62-144 | | | |
| 4,4'-DDE | 0.0834 | 0.010 | ug/l | 0.100 | ND | 83 | 53-134 | | | |
| 4,4'-DDT | 0.0880 | 0.010 | ug/l | 0.100 | ND | 88 | 48-170 | | | |
| Aldrin | 0.0723 | 0.010 | ug/l | 0.100 | ND | 72 | 49-107 | | | |
| alpha-BHC | 0.0669 | 0.010 | ug/l | 0.100 | ND | 67 | 47-125 | | | |
| beta-BHC | 0.0713 | 0.010 | ug/l | 0.100 | ND | 71 | 62-123 | | | |
| delta-BHC | 0.0884 | 0.010 | ug/l | 0.100 | ND | 88 | 56-140 | | | |
| Dieldrin | 0.0698 | 0.010 | ug/l | 0.100 | ND | 70 | 65-135 | | | |
| Endosulfan I | 0.0523 | 0.010 | ug/l | 0.100 | ND | 52 | 28-119 | | | |
| Endosulfan II | 0.0554 | 0.010 | ug/l | 0.100 | ND | 55 | 56-127 | | | MS-05 |
| Endosulfan sulfate | 0.0796 | 0.010 | ug/l | 0.100 | ND | 80 | 72-171 | | | |
| Endrin | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 53-123 | | | |
| Endrin aldehyde | 0.0828 | 0.010 | ug/l | 0.100 | ND | 83 | 34-158 | | | |
| gamma-BHC (Lindane) | 0.0712 | 0.010 | ug/l | 0.100 | ND | 71 | 49-126 | | | |
| Heptachlor | 0.0736 | 0.010 | ug/l | 0.100 | ND | 74 | 56-155 | | | |
| Heptachlor epoxide | 0.0753 | 0.010 | ug/l | 0.100 | ND | 75 | 55-137 | | | |
| Methoxychlor | 0.0782 | 0.010 | ug/l | 0.100 | ND | 78 | 44-192 | | | |
| Surr: Decachlorobiphenyl | 0.0757 | | ug/l | 0.100 | | 76 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0522 | | ug/l | 0.100 | | 52 | 70-130 | | | S-11 |
| Matrix Spike (W5H0358-MS3) | | | Source: 5H06090-01 | | | Analyzed: 08/20/15 22:53 | | | | |
| 4,4'-DDD | 0.103 | 0.010 | ug/l | 0.100 | ND | 103 | 62-144 | | | |
| 4,4'-DDE | 0.101 | 0.010 | ug/l | 0.100 | ND | 101 | 53-134 | | | |
| 4,4'-DDT | 0.113 | 0.010 | ug/l | 0.100 | ND | 113 | 48-170 | | | |
| Aldrin | 0.0789 | 0.010 | ug/l | 0.100 | ND | 79 | 49-107 | | | |
| alpha-BHC | 0.0899 | 0.010 | ug/l | 0.100 | ND | 90 | 47-125 | | | |



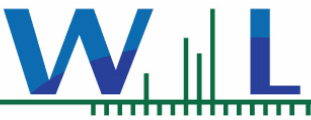
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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|---------------------------|-------------|---------------------------------|-----|--------------|-----|-----------|-----------------|
| Matrix Spike (W5H0358-MS3) | | | Source: 5H06090-01 | | Analyzed: 08/20/15 22:53 | | | | | |
| beta-BHC | 0.101 | 0.010 | ug/l | 0.100 | ND | 101 | 62-123 | | | |
| delta-BHC | 0.106 | 0.010 | ug/l | 0.100 | ND | 106 | 56-140 | | | |
| Dieldrin | 0.0984 | 0.010 | ug/l | 0.100 | ND | 98 | 65-135 | | | |
| Endosulfan I | 0.0639 | 0.010 | ug/l | 0.100 | ND | 64 | 28-119 | | | |
| Endosulfan II | 0.0739 | 0.010 | ug/l | 0.100 | ND | 74 | 56-127 | | | |
| Endosulfan sulfate | 0.116 | 0.010 | ug/l | 0.100 | ND | 116 | 72-171 | | | |
| Endrin | 0.0997 | 0.010 | ug/l | 0.100 | ND | 100 | 53-123 | | | |
| Endrin aldehyde | 0.0867 | 0.010 | ug/l | 0.100 | ND | 87 | 34-158 | | | |
| gamma-BHC (Lindane) | 0.0938 | 0.010 | ug/l | 0.100 | ND | 94 | 49-126 | | | |
| Heptachlor | 0.0932 | 0.010 | ug/l | 0.100 | ND | 93 | 56-155 | | | |
| Heptachlor epoxide | 0.0926 | 0.010 | ug/l | 0.100 | ND | 93 | 55-137 | | | |
| Methoxychlor | 0.121 | 0.010 | ug/l | 0.100 | ND | 121 | 44-192 | | | |
| Surr: Decachlorobiphenyl | 0.0863 | | ug/l | 0.100 | | 86 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0541 | | ug/l | 0.100 | | 54 | 70-130 | | | S-11 |
| Matrix Spike Dup (W5H0358-MSD1) | | | Source: 5H06096-03 | | Analyzed: 08/20/15 21:20 | | | | | |
| 4,4'-DDD | 0.0865 | 0.020 | ug/l | 0.100 | ND | 87 | 62-144 | 11 | 25 | M-04 |
| 4,4'-DDE | 0.0817 | 0.020 | ug/l | 0.100 | ND | 82 | 53-134 | 11 | 25 | M-04 |
| 4,4'-DDT | 0.0620 | 0.020 | ug/l | 0.100 | ND | 62 | 48-170 | 6 | 25 | M-04 |
| Aldrin | 0.0553 | 0.020 | ug/l | 0.100 | ND | 55 | 49-107 | 25 | 25 | M-04 |
| alpha-BHC | 0.0696 | 0.020 | ug/l | 0.100 | ND | 70 | 47-125 | 11 | 25 | M-04 |
| beta-BHC | 0.0621 | 0.020 | ug/l | 0.100 | ND | 62 | 62-123 | 4 | 25 | M-04 |
| delta-BHC | 0.0688 | 0.020 | ug/l | 0.100 | ND | 69 | 56-140 | 5 | 25 | M-04 |
| Dieldrin | 0.0917 | 0.020 | ug/l | 0.100 | ND | 92 | 65-135 | 11 | 25 | M-04 |
| Endosulfan I | 0.0440 | 0.020 | ug/l | 0.100 | ND | 44 | 28-119 | 5 | 25 | M-04 |
| Endosulfan II | 0.0506 | 0.020 | ug/l | 0.100 | ND | 51 | 56-127 | 7 | 25 | M-04, |
| Endosulfan sulfate | 0.0640 | 0.020 | ug/l | 0.100 | ND | 64 | 72-171 | 6 | 25 | MS-05 |
| Endrin | 0.0852 | 0.020 | ug/l | 0.100 | ND | 85 | 53-123 | 5 | 25 | M-04 |
| Endrin aldehyde | 0.0358 | 0.020 | ug/l | 0.100 | ND | 36 | 34-158 | 9 | 25 | M-04 |
| gamma-BHC (Lindane) | 0.0676 | 0.020 | ug/l | 0.100 | ND | 68 | 49-126 | 7 | 25 | M-04 |
| Heptachlor | 0.0615 | 0.020 | ug/l | 0.100 | ND | 62 | 56-155 | 13 | 25 | M-04 |
| Heptachlor epoxide | 0.0620 | 0.020 | ug/l | 0.100 | ND | 62 | 55-137 | 11 | 25 | M-04 |
| Methoxychlor | 0.0585 | 0.020 | ug/l | 0.100 | ND | 58 | 44-192 | 6 | 25 | M-04 |
| Surr: Decachlorobiphenyl | 0.0770 | | ug/l | 0.100 | | 77 | 70-130 | | | M-04 |
| Surr: Tetrachloro-meta-xylene | 0.0362 | | ug/l | 0.100 | | 36 | 70-130 | | | M-04, |
| Matrix Spike Dup (W5H0358-MSD2) | | | Source: 5H06094-03 | | Analyzed: 08/20/15 22:22 | | | | | |
| 4,4'-DDD | 0.0915 | 0.010 | ug/l | 0.100 | ND | 92 | 62-144 | 11 | 25 | |
| 4,4'-DDE | 0.0857 | 0.010 | ug/l | 0.100 | ND | 86 | 53-134 | 3 | 25 | |
| 4,4'-DDT | 0.0965 | 0.010 | ug/l | 0.100 | ND | 96 | 48-170 | 9 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0358 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|---------------------------|-------|---------------------------------|---------------|-----|--------------|-----|-----------|-----------------|
| Matrix Spike Dup (W5H0358-MSD2) | | Source: 5H06094-03 | | Analyzed: 08/20/15 22:22 | | | | | | |
| Aldrin | 0.0794 | 0.010 | ug/l | 0.100 | ND | 79 | 49-107 | 9 | 25 | |
| alpha-BHC | 0.0753 | 0.010 | ug/l | 0.100 | ND | 75 | 47-125 | 12 | 25 | |
| beta-BHC | 0.0825 | 0.010 | ug/l | 0.100 | ND | 83 | 62-123 | 15 | 25 | |
| delta-BHC | 0.0981 | 0.010 | ug/l | 0.100 | ND | 98 | 56-140 | 10 | 25 | |
| Dieldrin | 0.0736 | 0.010 | ug/l | 0.100 | ND | 74 | 65-135 | 5 | 25 | |
| Endosulfan I | 0.0553 | 0.010 | ug/l | 0.100 | ND | 55 | 28-119 | 6 | 25 | |
| Endosulfan II | 0.0622 | 0.010 | ug/l | 0.100 | ND | 62 | 56-127 | 12 | 25 | |
| Endosulfan sulfate | 0.0941 | 0.010 | ug/l | 0.100 | ND | 94 | 72-171 | 17 | 25 | |
| Endrin | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-123 | 8 | 25 | |
| Endrin aldehyde | 0.0809 | 0.010 | ug/l | 0.100 | ND | 81 | 34-158 | 2 | 25 | |
| gamma-BHC (Lindane) | 0.0771 | 0.010 | ug/l | 0.100 | ND | 77 | 49-126 | 8 | 25 | |
| Heptachlor | 0.0819 | 0.010 | ug/l | 0.100 | ND | 82 | 56-155 | 11 | 25 | |
| Heptachlor epoxide | 0.0820 | 0.010 | ug/l | 0.100 | ND | 82 | 55-137 | 9 | 25 | |
| Methoxychlor | 0.0917 | 0.010 | ug/l | 0.100 | ND | 92 | 44-192 | 16 | 25 | |
| Surr: Decachlorobiphenyl | 0.0799 | | ug/l | 0.100 | | 80 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0490 | | ug/l | 0.100 | | 49 | 70-130 | | | S-11 |
| Matrix Spike Dup (W5H0358-MSD3) | | Source: 5H06090-01 | | Analyzed: 08/20/15 23:23 | | | | | | |
| 4,4'-DDD | 0.115 | 0.010 | ug/l | 0.100 | ND | 115 | 62-144 | 11 | 25 | |
| 4,4'-DDE | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-134 | 9 | 25 | |
| 4,4'-DDT | 0.122 | 0.010 | ug/l | 0.100 | ND | 122 | 48-170 | 7 | 25 | |
| Aldrin | 0.0916 | 0.010 | ug/l | 0.100 | ND | 92 | 49-107 | 15 | 25 | |
| alpha-BHC | 0.0989 | 0.010 | ug/l | 0.100 | ND | 99 | 47-125 | 9 | 25 | |
| beta-BHC | 0.109 | 0.010 | ug/l | 0.100 | ND | 109 | 62-123 | 7 | 25 | |
| delta-BHC | 0.112 | 0.010 | ug/l | 0.100 | ND | 112 | 56-140 | 5 | 25 | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | ND | 108 | 65-135 | 10 | 25 | |
| Endosulfan I | 0.0700 | 0.010 | ug/l | 0.100 | ND | 70 | 28-119 | 9 | 25 | |
| Endosulfan II | 0.0795 | 0.010 | ug/l | 0.100 | ND | 80 | 56-127 | 7 | 25 | |
| Endosulfan sulfate | 0.136 | 0.010 | ug/l | 0.100 | ND | 136 | 72-171 | 16 | 25 | |
| Endrin | 0.110 | 0.010 | ug/l | 0.100 | ND | 110 | 53-123 | 9 | 25 | |
| Endrin aldehyde | 0.0975 | 0.010 | ug/l | 0.100 | ND | 98 | 34-158 | 12 | 25 | |
| gamma-BHC (Lindane) | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 49-126 | 9 | 25 | |
| Heptachlor | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 56-155 | 10 | 25 | |
| Heptachlor epoxide | 0.100 | 0.010 | ug/l | 0.100 | ND | 100 | 55-137 | 8 | 25 | |
| Methoxychlor | 0.132 | 0.010 | ug/l | 0.100 | ND | 132 | 44-192 | 9 | 25 | |
| Surr: Decachlorobiphenyl | 0.0928 | | ug/l | 0.100 | | 93 | 70-130 | | | |
| Surr: Tetrachloro-meta-xylene | 0.0621 | | ug/l | 0.100 | | 62 | 70-130 | | | S-11 |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W5H0269 - EPA 365.3



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W5H0269 - EPA 365.3

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0269-BLK1) | | | | Analyzed: 08/06/15 13:02 | | | | | | |
| o-Phosphate as P | ND | 0.010 | mg/l | | | | | | | |
| LCS (W5H0269-BS1) | | | | Analyzed: 08/06/15 13:02 | | | | | | |
| o-Phosphate as P | 0.204 | 0.010 | mg/l | 0.200 | | 102 | 88-111 | | | |
| Matrix Spike (W5H0269-MS1) | | | | Source: 5H05116-01 | | Analyzed: 08/06/15 13:02 | | | | |
| o-Phosphate as P | 0.244 | 0.010 | mg/l | 0.200 | 0.0351 | 104 | 85-112 | | | |
| Matrix Spike Dup (W5H0269-MSD1) | | | | Source: 5H05116-01 | | Analyzed: 08/06/15 13:02 | | | | |
| o-Phosphate as P | 0.246 | 0.010 | mg/l | 0.200 | 0.0351 | 105 | 85-112 | 0.8 | 20 | |

Batch W5H0551 - EPA 365.3

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0551-BLK1) | | | | Analyzed: 08/13/15 17:35 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | | | | | | |
| LCS (W5H0551-BS1) | | | | Analyzed: 08/13/15 17:35 | | | | | | |
| Phosphorus, Dissolved | 0.216 | 0.010 | mg/l | 0.200 | | 108 | 90-110 | | | |
| Matrix Spike (W5H0551-MS1) | | | | Source: 5H05109-01 | | Analyzed: 08/13/15 17:35 | | | | |
| Phosphorus, Dissolved | 0.246 | 0.010 | mg/l | 0.200 | 0.0350 | 106 | 85-108 | | | |
| Matrix Spike Dup (W5H0551-MSD1) | | | | Source: 5H05109-01 | | Analyzed: 08/13/15 17:35 | | | | |
| Phosphorus, Dissolved | 0.244 | 0.010 | mg/l | 0.200 | 0.0350 | 104 | 85-108 | 0.8 | 20 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/05/15 11:40
Date Reported: 08/26/15 13:54

Notes and Definitions

- S-11** Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- MS-05** The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- M-05** Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
- M-04** Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
- ND** NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
- NR** Not Reportable
- Dil** Dilution
- dry** Sample results reported on a dry weight basis
- RPD** Relative Percent Difference
- % Rec** Percent Recovery
- Sub** Subcontracted analysis, original report available upon request
- MDL** Method Detection Limit
- MDA** Minimum Detectable Activity
- MRL** Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|---------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|-------------------|------------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 33743 | | MW-7M | 8/2/15 | 11:25am | 8.8°C | | | | | | 22 | | | |
| | | | | | | | | | | | | | Field Parameters: | |
| | | | | | | | | | | | | | Temp: | 18.4°C |
| | | | | | | | | | | | | | pH: | 7.17 |
| | | | | | | | | | | | | | Sp Cond: | 5507 µS/cm |
| | | | | | | | | | | | | | Turb: | 0.88 NTU |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|----------------|-----------|--------|---------|---|
| Sampled by: | Matan Salmon | | 8/2/15 | 11:25am | Is sample for regulatory purposes? <input checked="" type="radio"/> Yes / <input type="radio"/> No |
| Relinquished by: | | | | | |
| Received by: | Sarah McGinnis | | 8/3/15 | 0825 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

DMC

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA <2 Hr

Is there evidence of chilling?

YES NO NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|----------------------------------|---------------|
| 33743 | 125 mL | HNO ₃ + silt in field | 8/31/15 SMC |
| | 125 mL | HNO ₃ | ↓ |
| | (2) 1L AG | Added 1:1 HCl | |
| | | | |
| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Comments

1L lab filtered → 250 mL NP
 (0.45µm) 250 mL H₂SO₄
 500 mL H₂SO₄ + Na₂S₂O₃
 HM



Monterey Bay Analytical Services

California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS

www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB34038

Collection Date/Time: 8/9/2015 15:00 Sample Collector: SALMON M.
 Submittal Date/Time: 8/10/2015 11:53 Sample ID

Sample Description: MW-7D

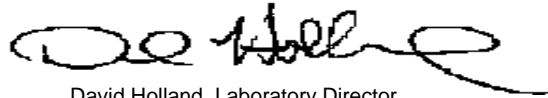
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|---------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 109 | | 2 | 8/14/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 100 | 8/18/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 8/24/2015 | MW |
| Arsenic, Total | EPA200.8 | µg/L | 41 | | 10 | 8/18/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 110 | | 100 | 8/18/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 133 | | 10 | 8/17/2015 | TC |
| Boron, Dissolved | EPA200.7 | mg/L | 1.71 | | 0.5 | 8/17/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 44.3 | | 10 | 8/10/2015 | TC |
| Calcium | EPA200.7 | mg/L | 1900 | | 5 | 8/17/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 1890 | | 5 | 8/17/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 8/20/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 8/17/2015 | TC |
| Chloride, Dissolved | EPA300.0 | mg/L | 13589 | | 100 | 8/10/2015 | TC |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Attached | E | | 8/27/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | Not Detected | | 3 | 8/11/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 100 | 8/17/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 8/18/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 8/17/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 8/18/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 8/18/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | Not Detected | | 1 | 8/10/2015 | TC |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 8/17/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 9030 | | 10 | 8/18/2015 | TC |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 8/17/2015 | TC |
| Iodide | EPA9056M | µg/L | Not Detected | E | 500 | 8/15/2015 | WECK |
| Iron | EPA200.7 | µg/L | Not Detected | | 100 | 8/17/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | Not Detected | | 100 | 8/17/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 8/25/2015 | TC |
| Lithium | EPA200.8 | µg/L | 271 | | 10 | 8/18/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 1040 | | 5 | 8/17/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 1010 | | 5 | 8/17/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 230 | | 100 | 8/17/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 232 | | 100 | 8/17/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 8/11/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 6 | J | 10 | 8/10/2015 | TC |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 1.4 | | 1.00 | 8/10/2015 | TC |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | Not Detected | | 1 | 8/10/2015 | TC |
| Odor Threshold at 60 C | SM2150B | TON | 1 | | 1 | 8/11/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.05 | | 0.01 | 8/11/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 6.77 | | | 8/9/2015 | MS |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|--|-------------|----------|---------------------|-----|-----------|-----------|-----|
| pH (Laboratory) | SM4500-H+B | pH (H) | 6.9 | 0.1 | 8/10/2015 | LRH | |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 8/20/2015 | BSK | |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.02 | J | 0.03 | 8/26/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 57 | | 5 | 8/17/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 55 | | 5 | 8/17/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.69 | | | 8/14/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 8/17/2015 | BSK |
| Silica as SiO ₂ , Dissolved | EPA200.7 | mg/L | 35 | | 5 | 8/17/2015 | MW |
| Sodium | EPA200.7 | mg/L | 6834 | | 5 | 8/17/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 6540 | | 5 | 8/17/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 38800 | | 1 | 8/13/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 39065 | | 1 | 8/9/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 12676 | | 50 | 8/18/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 1882 | | 10 | 8/10/2015 | TC |
| Temperature (Field) | SM2550 | ° C | 19.7 | | | 8/9/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 26700 | | 10 | 8/11/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.20 | | 0.05 | 8/11/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.85 | | 0.05 | 8/9/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 8/13/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | | 100 | 8/17/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 34038 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 6834 | 0.04350 | 297.28 |
| Potassium | 57 | 0.02558 | 1.46 |
| Calcium | 1900 | 0.04990 | 94.81 |
| Magnesium | 1040 | 0.08229 | 85.58 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 479.13 |

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 6540 | 0.04350 | 284.49 |
| Potassium | 55 | 0.02558 | 1.41 |
| Calcium | 1890 | 0.04990 | 94.31 |
| Magnesium | 1010 | 0.08229 | 83.11 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 463.32 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 109 | 0.02000 | 2.18 |
| Sulfate | 1882 | 0.02082 | 39.18 |
| Chloride | 13589 | 0.02821 | 383.35 |
| Nitrate-Nitrogen | 1.4 | 0.07138 | 0.10 |
| Phosphate-P | 0.02 | 0.01031 | 0.00 |
| Bromide | 44.3 | 0.01252 | 0.55 |
| | | SUM | 425.36 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 109 | 0.02000 | 2.18 |
| Sulfate | 1882 | 0.02082 | 39.18 |
| Chloride | 13589 | 0.02821 | 383.35 |
| Nitrate-Nitrogen | 1.4 | 0.07138 | 0.10 |
| Phosphate-P | 0.02 | 0.01031 | 0.00 |
| Bromide | 44.3 | 0.01252 | 0.55 |
| | | SUM | 425.36 |

ANION-CATION BALANCE 6 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ANION-CATION BALANCE 4 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 38800 | |
| Cation Sum X 100 | 47913 | 123% |
| Anion Sum X 100 | 42536 | 110% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 38800 | |
| Cation Sum X 100 | 46332 | 119% |
| Anion Sum X 100 | 42536 | 110% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 8/14/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria | Time |
|------|-----------------|------------------|-------|---------------------|-------|
| ICVB | --- | < 10 mg/L | --- | <10mg/L | 10:18 |
| ICV | 40 | 41 | 103 | 95-105 % | 10:18 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|-------|
| AB34038 | 109 | 109 | 0 | 5 | 10:18 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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Color QC Summary (SM 2120B)

Date Analyzed: 8/11/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 15:27 |
| ICV | 5 | 6 | 120.0 | 80-120 | 15:27 |
| CCV | 5 | 6 | 120.0 | 80-120 | 15:27 |
| CCVB | --- | <3 | --- | <3 | 15:27 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|-------|
| AB34083 | Not Detected | Not Detected | na | 10 | 15:27 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150817

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|--------|--------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.02 | 0.01 | 1.02 | 102.4% | 1.02 | 101.7% | 0.7% | 1 | 1.00 | 99.7% | 1 | 1.0 | 100.8% |
| B 249.772 | 0.05-5ppm | 0.02 | 0.01 | 1.02 | 102.4% | 1.03 | 103.0% | 0.6% | 1 | 1.00 | 100.1% | 1 | 1.0 | 101.5% |
| Ca 317.933 | 50-300ppm | -4.48 | -4.54 | 50.8 | 101.5% | 51.4 | 102.7% | 1.2% | 50 | 50.0 | 99.9% | 50 | 47.8 | 95.7% |
| Ca 396.847 | 0.5-50ppm | -0.40 | -0.45 | 53.2 | 106.4% | 53.2 | 106.5% | 0.1% | 50 | 51.7 | 103.5% | 50 | 51.6 | 103.2% |
| Cu 324.754 | 10ppb-100ppm | -0.54 | -2.18 | 1096 | 109.6% | 1095 | 109.5% | 0.1% | 1000 | 1028 | 102.8% | 1000 | 1036.5 | 103.6% |
| Cu 327.395 | 10ppb-100ppm | 0.49 | -2.09 | 1095 | 109.5% | 1089 | 108.9% | 0.5% | 1000 | 1033 | 103.3% | 1000 | 1035.3 | 103.5% |
| Fe 238.204 | 10ppb-100ppm | -1.71 | -2.06 | 1039 | 103.9% | 1040 | 104.0% | 0.2% | 1000 | 1022 | 102.2% | 1000 | 1012.3 | 101.2% |
| Fe 259.940 | 10ppb-100ppm | -1.35 | -4.77 | 1050 | 105.0% | 1052 | 105.2% | 0.2% | 1000 | 1028 | 102.8% | 1000 | 1031.3 | 103.1% |
| K 766.491 | 0.5-750ppm | 0.00 | -0.01 | 10.3 | 102.9% | 10.4 | 104.2% | 1.3% | 10 | 9.8 | 98.4% | 10 | 10.0 | 99.7% |
| Mg 202.582 | 50-1000ppm | -1.35 | -1.36 | 52.2 | 104.4% | 52.1 | 104.2% | 0.2% | 50 | 50.4 | 100.9% | 50 | 49.9 | 99.9% |
| Mg 279.078 | 0.5-50ppm | 0.01 | 0.01 | 53.1 | 106.2% | 53.5 | 107.0% | 0.8% | 50 | 51.3 | 102.6% | 50 | 51.0 | 102.0% |
| Mn 257.610 | 10ppb-11ppm | -1.93 | -2.17 | 1046 | 104.6% | 1051 | 105.1% | 0.5% | 1000 | 1022 | 102.2% | 1000 | 1031.5 | 103.1% |
| Mn 260.568 | 10ppb-11ppm | -2.73 | -4.35 | 1069 | 106.9% | 1068 | 106.8% | 0.1% | 1000 | 1039 | 103.9% | 1000 | 1048.7 | 104.9% |
| Na 568.821 | 50-1000ppm | 4.64 | 3.72 | 52.3 | 104.5% | 52.9 | 105.7% | 1.1% | 50 | 48.7 | 97.4% | 50 | 54.5 | 108.9% |
| Na 589.592 | 0.5-50ppm | -0.18 | -0.21 | 53.5 | 107.1% | 53.8 | 107.7% | 0.6% | 50 | 51.9 | 103.9% | 50 | 56.3 | 112.6% |
| Si 251.611 | 0.5-200ppm | -0.14 | -0.20 | 52.8 | 105.6% | 52.8 | 105.6% | 0.0% | 50 | 51.7 | 103.4% | 50 | 51.6 | 103.3% |
| Si 252.411 | 0.5-200ppm | -0.08 | -0.12 | 52.2 | 104.3% | 52.0 | 104.0% | 0.3% | 50 | 51.1 | 102.2% | 50 | 51.1 | 102.1% |
| Zn 213.857 | 10ppb-50ppm | -35.74 | -52.87 | 1031 | 103.1% | 1025 | 102.5% | 0.6% | 1000 | 1016 | 101.6% | 1000 | 983.7 | 98.4% |

Sample ID AB34029

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|--------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 2.74 | 3.64 | 90.0% | 3.69 | 95.1% | 1.4% | 1 | 1.02 | 101.6% | 1.9% | 0.02 |
| B 249.772 | 2.77 | 3.67 | 90.2% | 3.72 | 95.4% | 1.4% | 1 | 1.03 | 103.1% | 3.0% | 0.03 |
| Ca 317.933 | 20.2 | 78.9 | 117.5% | 80.1 | 120.0% | 1.5% | 50 | 56.8 | 113.6% | 12.8% | -4.49 |
| Ca 396.847 | 21.5 | 67.9 | 92.8% | 68.2 | 93.4% | 0.4% | 50 | 49.1 | 98.2% | 5.3% | -0.40 |
| Cu 324.754 | 3673 | 4389 | 71.6% | 4447 | 77.4% | 1.3% | 1000 | 960 | 96.0% | 6.8% | -0.70 |
| Cu 327.395 | 3683 | 4406 | 72.2% | 4451 | 76.7% | 1.0% | 1000 | 963 | 96.3% | 7.0% | 0.25 |
| Fe 238.204 | 2 | 1083 | 108.2% | 1096 | 109.5% | 1.2% | 1000 | 1102 | 110.2% | 7.6% | -3.39 |
| Fe 259.940 | 2 | 1060 | 105.7% | 1092 | 109.0% | 3.0% | 1000 | 1086 | 108.6% | 5.4% | -1.44 |
| K 766.491 | 2.2 | 11.4 | 91.5% | 11.5 | 92.8% | 1.1% | 10 | 9.1 | 90.7% | 8.2% | 0.00 |
| Mg 202.582 | 15.5 | 64.9 | 98.9% | 65.7 | 100.4% | 1.1% | 50 | 48.9 | 97.8% | 3.1% | -1.37 |
| Mg 279.078 | 16.6 | 66.0 | 98.8% | 66.9 | 100.6% | 1.3% | 50 | 50.3 | 100.7% | 1.9% | 0.01 |
| Mn 257.610 | 2 | 1062 | 106.0% | 1079 | 107.7% | 1.6% | 1000 | 1080 | 108.0% | 5.5% | -1.79 |
| Mn 260.568 | 5 | 1085 | 108.0% | 1109 | 110.4% | 2.2% | 1000 | 1105 | 110.5% | 6.2% | -1.46 |
| Na 568.821 | 126.7 | 164.4 | 75.4% | 166.9 | 80.3% | 1.5% | 50 | 42.1 | 84.1% | 14.6% | 2.90 |
| Na 589.592 | 135.9 | 178.0 | 84.0% | 178.5 | 85.0% | 0.3% | 50 | 46.2 | 92.4% | 11.7% | -0.14 |
| Si 251.611 | 16.7 | 69.2 | 104.9% | 70.5 | 107.5% | 1.8% | 50 | 55.9 | 111.9% | 7.9% | -0.12 |
| Si 252.411 | 16.4 | 67.8 | 102.8% | 69.0 | 105.2% | 1.7% | 50 | 54.6 | 109.1% | 6.6% | -0.07 |
| Zn 213.857 | -17 | 1069 | 108.6% | 1088 | 110.5% | 1.7% | 1000 | 1099 | 109.9% | 8% | -37.11 |



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MBAS QC Summary (SM 5540C)

Date Analyzed: 8/11/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | -0.001 | --- | <0.05 | 823 |
| ICVL | 0.05 | 0.047 | 94 | 50-150 | 824 |
| ICV | 0.25 | 0.259 | 103.6 | 80-120 | 858 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB34038 | 0.005 | 0.25 | 0.249 | 0.264 | 97.6 | 103.6 | 5.8 | 80/120 | 10 | 836 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 8/24/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1300 |
| ICVL | 0.050 | 0.06 | 120.00% | 90-110 | 1300 |
| ICV | 0.500 | 0.500 | 100.00% | 90-110 | 1300 |
| CCVB1 | --- | 0.02 | --- | <0.05 | 1300 |
| CCV1 | 0.500 | 0.480 | 96.00% | 90-110 | 1300 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB34494 | ND | 0.500 | 0.540 | 0.580 | 108 | 116 | 7.1 | 85-120 | 10 | 1300 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 8/11/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | <0.01 | --- | < 0.01 | 9:24 |
| LCSL | 0.01 | 0.01 | 100 | 50-150 | 9:24 |
| ICV | 0.30 | 0.29 | 97 | 90-110 | 9:24 |
| QCS | 0.30 | 0.30 | 100 | 80-120 | 9:24 |
| CCV | 0.30 | 0.30 | 100 | 80-120 | 9:24 |
| CCVB | --- | <0.01 | --- | < 0.01 | 9:24 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB34038 | 0.05 | 0.30 | 0.34 | 0.36 | 97 | 103 | 6 | 70-130 | 10 | 9:24 | 9:24 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery

ICVB= Initial Calibration Verification Blank; ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; CCVB= Continuing Calibration Verification Blank; MS= Matrix Sike; RPD = Relative Percent Difference; Rec % = Recovery percent



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Phosphorus QC Summary (Hach 8190)

Date: 8/26/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| LCB | --- | <0.03 | --- | < 0.03 | 14:14 |
| LCSL | 0.03 | 0.04 | 133 | 50-150 | 14:14 |
| LCS | 0.50 | 0.50 | 100 | 90-110 | 14:14 |
| QCS | 0.50 | 0.49 | 98 | 80-120 | 14:14 |
| LCSD | 0.50 | 0.50 | 100 | 80-120 | 14:14 |
| LCCB | --- | <0.03 | --- | < 0.03 | 14:14 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB34038 | 0.02 | 0.50 | 0.51 | 0.53 | 98 | 102 | 3.8 | 70-130 | 10 | 14:14 | 14:14 |

LCB = Laboratory ; LCSL = Laboratory Control Standard Low; LCS= Laboratory Control Standard; QCS = Quality Control Standard; LCSD= Laboratory Control Standard Dup; LCCB = Laboratory Control Continuing Blank; MS = Matrix Spike; MSD= Matrix Spike Duplicate



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 8/13/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1413 | 100.1% | 95-105 | 1100 |
| ICV | 24800 | 24780 | 99.9% | 95-105 | 1100 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB34192 | 1174 | 1173 | 0.1% | 10 | 1100 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 8/11/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 6 | --- | <10 | 1300 |
| ICVL | 100 | 120 | 120 | 80-120 | 1300 |
| ICV | 500 | 506 | 101.2 | 90-110 | 1300 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB34127 | 24300 | 24500 | 0.8 | 10 | 1300 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 8/25/2015

Time: 1300

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.353 | --- | <0.5 |
| LCS | 5.0 | 4.8 | 96 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB34481 | ND | 5.0 | 4.7 | 4.9 | 94 | 98 | 4.2 | 85-120 | 10 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 8/11/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|-------|
| ICVB | --- | <0.05 | --- | <0.05 | 13:36 |
| ICV | 1.00 | 1.04 | 104.0% | 95-105 | 13:36 |
| CCVB | --- | <0.05 | --- | <0.05 | 13:36 |
| CCV | 1.00 | 1.04 | 104.0% | 95-105 | 13:36 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|-------|
| AB34083 | 0.05 | 0.05 | 0% | 10 | 13:36 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

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300.0 QC Report

All units expressed in mg/L

Batch ID:

20150810

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.03 | 0.14 | 0.03 | 0.00 | 0.00 | 0.00 |
| ICV | 2.06 | 19.76 | 2.15 | 20.05 | 1.95 | 1.98 |
| Rec 90-110% | 102.89 | 98.82 | 107.27 | 100.26 | 97.67 | 99.17 |
| ICVL | 0.21 | 1.92 | 0.21 | 1.59 | 0.24 | 0.23 |
| Rec 50-150% | 106.62 | 96.24 | 107.49 | 79.54 | 119.04 | 115.60 |
| Sample ID AB34046 | 0.23 | 20.25 | 0.31 | 83.32 | 0.12 | 0.71 |
| MS | 2.29 | 41.13 | 2.49 | 104.17 | 2.07 | 2.77 |
| Rec 80-120% | 103.33 | 104.43 | 109.41 | 104.28 | 97.42 | 103.01 |
| MSD | 2.17 | 39.98 | 2.39 | 102.40 | 1.98 | 2.67 |
| Rec 80-120% | 96.98 | 98.68 | 104.02 | 95.44 | 93.16 | 98.01 |
| Diff 10% | 5.70 | 2.84 | 4.42 | 1.71 | 4.21 | 3.69 |
| CCV | 2.00 | 19.96 | 2.16 | 20.20 | 1.94 | 2.00 |
| Rec 90-110% | 100.24 | 99.80 | 108.22 | 100.98 | 96.75 | 99.80 |
| Diff 10% | 2.62 | 0.98 | 0.88 | 0.72 | 0.94 | 0.63 |
| CCVB | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 |



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5H1130

8/24/2015

Invoice: A517792

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5H1130 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 8/12/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

Client: Monterey Bay Analytical
Report To: David Holland
Project #: -
Received: 8/12/2015 - 15:19
Report Due: 8/26/2015

Invoice To: Monterey Bay Analytical
Invoice Attn: David Holland
Project PO#: -

Sample Receipt Conditions

| | |
|---------------------------------------|---|
| Cooler: Default Cooler | Containers Intact |
| Temperature on Receipt °C: 0.4 | COC/Labels Agree |
| | Received On Wet Ice |
| | Received On Blue Ice |
| | Packing Material - Bubble Wrap |
| | Packing Material - Paper |
| | Sample(s) were received in temperature range. |
| | Initial receipt at BSK-FAL |

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- MS1.0 Matrix spike recoveries exceed control limits.
- MS1.5 Matrix spike recovery exceeds upper control limit. No material impact as sample results are Non-Detected.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5H1130-01
Sampled By: Matan Salmon
Sample Description: MW-7D (monitoring) // AB34038

Sample Date - Time: 08/09/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A509324 | 08/17/15 | 08/18/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A509324 | 08/17/15 | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 97 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A509517 | 08/19/15 | 08/20/15 | |
| Surrogate: DCPAA | EPA 515.3 | 89 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |

Certificate of Analysis

Sample ID: A5H1130-01
Sampled By: Matan Salmon
Sample Description: MW-7D (monitoring) // AB34038

Sample Date - Time: 08/09/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|----------------------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | MS1.5 |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A509194 | 08/13/15 | 08/13/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 95 % | | | | | | | Acceptable range: 70-130 % |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 98 % | | | | | | | Acceptable range: 70-130 % |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5H1130-01
Sampled By: Matan Salmon
Sample Description: MW-7D (monitoring) // AB34038

Sample Date - Time: 08/09/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A509231 | 08/13/15 | 08/17/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 88 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A509518 | 08/19/15 | 08/20/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A509332 | 08/17/15 | 08/17/15 | |
| Surrogate: AMPA | EPA 547 | 101 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A509316 | 08/14/15 | 08/18/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A509300 | 08/14/15 | 08/18/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A509324

Prepared: 08/17/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A509324-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 08/18/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 100 | 70-130 | | | 08/18/15 | |

Blank Spike (A509324-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 94 | 70-130 | | | 08/18/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 89 | 70-130 | | | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 101 | 70-130 | | | 08/18/15 | |

Blank Spike Dup (A509324-bsd1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | | 99 | 70-130 | 5 | 20 | 08/18/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | | 95 | 70-130 | 7 | 20 | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 104 | 70-130 | | | 08/18/15 | |

Matrix Spike (A509324-MS1), Source: A5H1495-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|-------|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.22 | 0.010 | ug/L | 0.20 | 0.023 | 100 | 65-135 | | | 08/18/15 | |
| Ethylene Dibromide (EDB) | 0.21 | 0.020 | ug/L | 0.20 | ND | 107 | 65-135 | | | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.45 | | 100 | 70-130 | | | 08/18/15 | |

Matrix Spike Dup (A509324-MSD1), Source: A5H1495-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|-------|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.21 | 0.010 | ug/L | 0.20 | 0.023 | 95 | 65-135 | 4 | 20 | 08/18/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 101 | 65-135 | 5 | 20 | 08/18/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.45 | | 98 | 70-130 | | | 08/18/15 | |

EPA 515.3 - Quality Control

Batch: A509517

Prepared: 08/19/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A509517-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 08/20/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 08/20/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 08/20/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 08/20/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 08/20/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 08/20/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 08/20/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 08/20/15 | |

Blank Spike (A509517-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | | 108 | 70-130 | | | 08/20/15 | |
| 2,4,5-TP (Silvex) | 0.88 | 1.0 | ug/L | 0.80 | | 110 | 70-130 | | | 08/20/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | | 113 | 70-130 | | | 08/20/15 | |
| Bentazon | 8.3 | 2.0 | ug/L | 8.0 | | 104 | 70-130 | | | 08/20/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A509517

Prepared: 08/19/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A509517-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.2 | 10 | ug/L | 4.0 | | 104 | 70-130 | | | 08/20/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 106 | 70-130 | | | 08/20/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 104 | 70-130 | | | 08/20/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | | 106 | 70-130 | | | 08/20/15 | |
| Picloram | 0.42 | 1.0 | ug/L | 0.40 | | 104 | 70-130 | | | 08/20/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 08/20/15 | |

Blank Spike Dup (A509517-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.2 | 1.0 | ug/L | 4.0 | | 106 | 70-130 | 3 | 20 | 08/20/15 | |
| 2,4,5-TP (Silvex) | 0.85 | 1.0 | ug/L | 0.80 | | 106 | 70-130 | 4 | 20 | 08/20/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | | 111 | 70-130 | 2 | 20 | 08/20/15 | |
| Bentazon | 8.0 | 2.0 | ug/L | 8.0 | | 100 | 70-130 | 3 | 20 | 08/20/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | | 100 | 70-130 | 4 | 20 | 08/20/15 | |
| Dicamba | 6.2 | 1.5 | ug/L | 6.0 | | 103 | 70-130 | 3 | 20 | 08/20/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 104 | 70-130 | 0 | 20 | 08/20/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 103 | 70-130 | 3 | 20 | 08/20/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 100 | 70-130 | 4 | 20 | 08/20/15 | |
| Surrogate: DCPAA | 56 | | | 58 | | 96 | 70-130 | | | 08/20/15 | |

Matrix Spike (A509517-MS1), Source: A5H1079-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | ND | 109 | 70-130 | | | 08/20/15 | |
| 2,4,5-TP (Silvex) | 0.86 | 1.0 | ug/L | 0.80 | ND | 108 | 70-130 | | | 08/20/15 | |
| 2,4-D | 0.46 | 10 | ug/L | 0.40 | ND | 114 | 70-130 | | | 08/20/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | ND | 103 | 70-130 | | | 08/20/15 | |
| Dalapon | 4.8 | 10 | ug/L | 4.0 | ND | 119 | 70-130 | | | 08/20/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | ND | 106 | 70-130 | | | 08/20/15 | |
| Dinoseb | 0.82 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | | | 08/20/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 105 | 70-130 | | | 08/20/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | ND | 99 | 70-130 | | | 08/20/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 99 | 70-130 | | | 08/20/15 | |

Matrix Spike Dup (A509517-MSD1), Source: A5H1079-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | ND | 109 | 70-130 | 0 | 20 | 08/20/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | ND | 104 | 70-130 | 4 | 20 | 08/20/15 | |
| 2,4-D | 0.46 | 10 | ug/L | 0.40 | ND | 114 | 70-130 | 0 | 20 | 08/20/15 | |
| Bentazon | 8.3 | 2.0 | ug/L | 8.0 | ND | 104 | 70-130 | 1 | 20 | 08/20/15 | |
| Dalapon | 4.7 | 10 | ug/L | 4.0 | ND | 118 | 70-130 | 1 | 20 | 08/20/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | ND | 107 | 70-130 | 1 | 20 | 08/20/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | 0 | 20 | 08/20/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 105 | 70-130 | 0 | 20 | 08/20/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | ND | 98 | 70-130 | 1 | 20 | 08/20/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 99 | 70-130 | | | 08/20/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A509194-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 08/13/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 08/13/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 08/13/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 08/13/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 08/13/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 08/13/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A509194-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 08/13/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 08/13/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 08/13/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 08/13/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 96 | 70-130 | | | 08/13/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 08/13/15 | |

Blank Spike (A509194-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/13/15 | |
| 1,1,1-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/13/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 08/13/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | | | 08/13/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 08/13/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| 1,1-Dichloroethene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/13/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| 1,2,3-Trichlorobenzene | 8.8 | 0.50 | ug/L | 10 | | 88 | 70-130 | | | 08/13/15 | |
| 1,2,4-Trichlorobenzene | 8.5 | 0.50 | ug/L | 10 | | 85 | 70-130 | | | 08/13/15 | |
| 1,2,4-Trimethylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/13/15 | |
| 1,2-Dichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/13/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 08/13/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/13/15 | |
| 1,3-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/13/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| 1,4-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 08/13/15 | |
| 2,2-Dichloropropane | 8.0 | 0.50 | ug/L | 10 | | 80 | 70-130 | | | 08/13/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A509194-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 2-Chlorotoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 08/13/15 | |
| 2-Hexanone | 9.1 | 10 | ug/L | 10 | | 91 | 70-130 | | | 08/13/15 | |
| 4-Chlorotoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 08/13/15 | |
| 4-Methyl-2-pentanone | 8.6 | 5.0 | ug/L | 10 | | 86 | 70-130 | | | 08/13/15 | |
| Acetone | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 08/13/15 | |
| Bromobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 08/13/15 | |
| Bromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |
| Bromodichloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 08/13/15 | |
| Bromoform | 8.1 | 0.50 | ug/L | 10 | | 81 | 70-130 | | | 08/13/15 | |
| Bromomethane | 12 | 0.50 | ug/L | 10 | | 121 | 70-130 | | | 08/13/15 | |
| Carbon disulfide | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | | | 08/13/15 | |
| Carbon Tetrachloride | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/13/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 08/13/15 | |
| Chloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 08/13/15 | |
| Chloromethane | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/13/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 08/13/15 | |
| cis-1,3-Dichloropropene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/13/15 | |
| Dibromochloromethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | | | 08/13/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 08/13/15 | |
| Dichlorodifluoromethane | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/13/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| Di-isopropyl ether (DIPE) | 9.6 | 3.0 | ug/L | 10 | | 96 | 70-130 | | | 08/13/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/13/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 08/13/15 | |
| Hexachlorobutadiene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | | | 08/13/15 | |
| Isopropylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 08/13/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 102 | 70-130 | | | 08/13/15 | |
| Methyl-t-butyl ether | 18 | 0.50 | ug/L | 20 | | 91 | 70-130 | | | 08/13/15 | |
| Naphthalene | 8.2 | 0.50 | ug/L | 10 | | 82 | 70-130 | | | 08/13/15 | |
| n-Butylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 08/13/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |
| o-Xylene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 08/13/15 | |
| p-Isopropyltoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/13/15 | |
| sec-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/13/15 | |
| Styrene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| tert-Amyl Methyl Ether (TAME) | 12 | 3.0 | ug/L | 10 | | 123 | 70-130 | | | 08/13/15 | |
| tert-Butyl alcohol (TBA) | 12 | 2.0 | ug/L | 10 | | 124 | 70-130 | | | 08/13/15 | |
| tert-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 08/13/15 | |
| Tetrachloroethene (PCE) | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 08/13/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 08/13/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 08/13/15 | |
| trans-1,3-Dichloropropene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | | | 08/13/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A509194-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|----|--------|--|--|----------|--|
| Trichlorofluoromethane | 7.3 | 5.0 | ug/L | 10 | | 73 | 70-130 | | | 08/13/15 | |
| Vinyl Chloride | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 08/13/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 95 | 70-130 | | | 08/13/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 08/13/15 | |

Blank Spike Dup (A509194-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 2 | 30 | 08/13/15 | |
| 1,1,1-Trichloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 08/13/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | 0 | 30 | 08/13/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,1-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,1-Dichloroethene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,1-Dichloropropene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,2,3-Trichlorobenzene | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 1 | 30 | 08/13/15 | |
| 1,2,4-Trichlorobenzene | 8.4 | 0.50 | ug/L | 10 | | 84 | 70-130 | 1 | 30 | 08/13/15 | |
| 1,2,4-Trimethylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/13/15 | |
| 1,2-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 4 | 30 | 08/13/15 | |
| 1,2-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 08/13/15 | |
| 1,2-Dichloropropane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,3,5-Trimethylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,3-Dichlorobenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/13/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 08/13/15 | |
| 1,4-Dichlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/13/15 | |
| 2,2-Dichloropropane | 7.7 | 0.50 | ug/L | 10 | | 77 | 70-130 | 3 | 30 | 08/13/15 | |
| 2-Butanone | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 08/13/15 | |
| 2-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/13/15 | |
| 2-Hexanone | 9.0 | 10 | ug/L | 10 | | 90 | 70-130 | 2 | 30 | 08/13/15 | |
| 4-Chlorotoluene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 4 | 30 | 08/13/15 | |
| 4-Methyl-2-pentanone | 8.5 | 5.0 | ug/L | 10 | | 85 | 70-130 | 1 | 30 | 08/13/15 | |
| Acetone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 08/13/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 08/13/15 | |
| Bromobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 08/13/15 | |
| Bromochloromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 08/13/15 | |
| Bromodichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 08/13/15 | |
| Bromoform | 8.0 | 0.50 | ug/L | 10 | | 80 | 70-130 | 2 | 30 | 08/13/15 | |
| Bromomethane | 12 | 0.50 | ug/L | 10 | | 120 | 70-130 | 1 | 30 | 08/13/15 | |
| Carbon disulfide | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 08/13/15 | |
| Carbon Tetrachloride | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 2 | 30 | 08/13/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 2 | 30 | 08/13/15 | |
| Chloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 08/13/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 08/13/15 | |
| Chloromethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 1 | 30 | 08/13/15 | |
| cis-1,2-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 08/13/15 | |
| cis-1,3-Dichloropropene | 8.9 | 0.50 | ug/L | 10 | | 89 | 70-130 | 3 | 30 | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A509194-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| Dibromochloromethane | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 3 | 30 | 08/13/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 08/13/15 | |
| Dichlorodifluoromethane | 8.7 | 0.50 | ug/L | 10 | | 87 | 70-130 | 1 | 30 | 08/13/15 | |
| Dichloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 08/13/15 | |
| Di-isopropyl ether (DIPE) | 9.3 | 3.0 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 08/13/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 3 | 30 | 08/13/15 | |
| Ethylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 4 | 30 | 08/13/15 | |
| Hexachlorobutadiene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | 2 | 30 | 08/13/15 | |
| Isopropylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 08/13/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | 5 | 30 | 08/13/15 | |
| Methyl-t-butyl ether | 18 | 0.50 | ug/L | 20 | | 88 | 70-130 | 3 | 30 | 08/13/15 | |
| Naphthalene | 8.6 | 0.50 | ug/L | 10 | | 86 | 70-130 | 5 | 30 | 08/13/15 | |
| n-Butylbenzene | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 3 | 30 | 08/13/15 | |
| n-Propylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 08/13/15 | |
| o-Xylene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 5 | 30 | 08/13/15 | |
| p-Isopropyltoluene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/13/15 | |
| sec-Butylbenzene | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 08/13/15 | |
| Styrene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 08/13/15 | |
| tert-Amyl Methyl Ether (TAME) | 12 | 3.0 | ug/L | 10 | | 120 | 70-130 | 2 | 30 | 08/13/15 | |
| tert-Butyl alcohol (TBA) | 12 | 2.0 | ug/L | 10 | | 119 | 70-130 | 4 | 30 | 08/13/15 | |
| tert-Butylbenzene | 9.1 | 0.50 | ug/L | 10 | | 91 | 70-130 | 4 | 30 | 08/13/15 | |
| Tetrachloroethene (PCE) | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 08/13/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 08/13/15 | |
| trans-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 08/13/15 | |
| trans-1,3-Dichloropropene | 8.3 | 0.50 | ug/L | 10 | | 83 | 70-130 | 3 | 30 | 08/13/15 | |
| Trichloroethene (TCE) | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 08/13/15 | |
| Trichlorofluoromethane | 7.4 | 5.0 | ug/L | 10 | | 74 | 70-130 | 1 | 30 | 08/13/15 | |
| Vinyl Chloride | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 1 | 30 | 08/13/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 47 | | | 50 | | 94 | 70-130 | | | 08/13/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 97 | 70-130 | | | 08/13/15 | |

Matrix Spike (A509194-MS1), Source: A5H1130-01

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|----|----|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 12 | 0.50 | ug/L | 10 | ND | 116 | 41-156 | | | 08/13/15 | |
| 1,1,1-Trichloroethane | 13 | 0.50 | ug/L | 10 | ND | 126 | 48-160 | | | 08/13/15 | |
| 1,1,2,2-Tetrachloroethane | 13 | 0.50 | ug/L | 10 | ND | 128 | 42-151 | | | 08/13/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 13 | 10 | ug/L | 10 | ND | 130 | 47-164 | | | 08/13/15 | |
| 1,1,2-Trichloroethane | 13 | 0.50 | ug/L | 10 | ND | 128 | 45-152 | | | 08/13/15 | |
| 1,1-Dichloroethane | 13 | 0.50 | ug/L | 10 | ND | 128 | 48-157 | | | 08/13/15 | |
| 1,1-Dichloroethene | 13 | 0.50 | ug/L | 10 | ND | 125 | 51-158 | | | 08/13/15 | |
| 1,1-Dichloropropene | 13 | 0.50 | ug/L | 10 | ND | 132 | 46-162 | | | 08/13/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | ND | 103 | 37-145 | | | 08/13/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | ND | 100 | 33-149 | | | 08/13/15 | |
| 1,2,4-Trimethylbenzene | 12 | 0.50 | ug/L | 10 | ND | 121 | 44-146 | | | 08/13/15 | |
| 1,2-Dichlorobenzene | 12 | 0.50 | ug/L | 10 | ND | 118 | 44-146 | | | 08/13/15 | |
| 1,2-Dichloroethane | 12 | 0.50 | ug/L | 10 | ND | 123 | 47-151 | | | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A509194-MS1), Source: A5H1130-01

| | | | | | | | | | | | |
|-------------------------------|----|------|------|----|----|-----|--------|--|--|----------|--|
| 1,2-Dichloropropane | 13 | 0.50 | ug/L | 10 | ND | 126 | 47-155 | | | 08/13/15 | |
| 1,3,5-Trimethylbenzene | 12 | 0.50 | ug/L | 10 | ND | 123 | 45-154 | | | 08/13/15 | |
| 1,3-Dichlorobenzene | 12 | 0.50 | ug/L | 10 | ND | 120 | 44-146 | | | 08/13/15 | |
| 1,3-Dichloropropane | 12 | 0.50 | ug/L | 10 | ND | 124 | 45-151 | | | 08/13/15 | |
| 1,4-Dichlorobenzene | 12 | 0.50 | ug/L | 10 | ND | 121 | 43-146 | | | 08/13/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | ND | 103 | 24-182 | | | 08/13/15 | |
| 2-Butanone | 13 | 5.0 | ug/L | 10 | ND | 132 | 55-144 | | | 08/13/15 | |
| 2-Chlorotoluene | 12 | 0.50 | ug/L | 10 | ND | 124 | 48-150 | | | 08/13/15 | |
| 2-Hexanone | 13 | 10 | ug/L | 10 | ND | 125 | 40-159 | | | 08/13/15 | |
| 4-Chlorotoluene | 12 | 0.50 | ug/L | 10 | ND | 123 | 43-150 | | | 08/13/15 | |
| 4-Methyl-2-pentanone | 11 | 5.0 | ug/L | 10 | ND | 114 | 30-171 | | | 08/13/15 | |
| Acetone | 13 | 10 | ug/L | 10 | ND | 126 | 27-181 | | | 08/13/15 | |
| Benzene | 13 | 0.50 | ug/L | 10 | ND | 130 | 48-155 | | | 08/13/15 | |
| Bromobenzene | 12 | 0.50 | ug/L | 10 | ND | 120 | 43-151 | | | 08/13/15 | |
| Bromochloromethane | 12 | 0.50 | ug/L | 10 | ND | 120 | 48-161 | | | 08/13/15 | |
| Bromodichloromethane | 12 | 0.50 | ug/L | 10 | ND | 121 | 47-151 | | | 08/13/15 | |
| Bromoform | 10 | 0.50 | ug/L | 10 | ND | 101 | 29-162 | | | 08/13/15 | |
| Bromomethane | 14 | 0.50 | ug/L | 10 | ND | 145 | 10-200 | | | 08/13/15 | |
| Carbon disulfide | 13 | 10 | ug/L | 10 | ND | 127 | 57-161 | | | 08/13/15 | |
| Carbon Tetrachloride | 13 | 0.50 | ug/L | 10 | ND | 126 | 47-163 | | | 08/13/15 | |
| Chlorobenzene | 13 | 0.50 | ug/L | 10 | ND | 130 | 46-152 | | | 08/13/15 | |
| Chloroethane | 13 | 0.50 | ug/L | 10 | ND | 132 | 28-189 | | | 08/13/15 | |
| Chloroform | 13 | 0.50 | ug/L | 10 | ND | 129 | 52-148 | | | 08/13/15 | |
| Chloromethane | 12 | 0.50 | ug/L | 10 | ND | 116 | 53-159 | | | 08/13/15 | |
| cis-1,2-Dichloroethene | 13 | 0.50 | ug/L | 10 | ND | 128 | 50-152 | | | 08/13/15 | |
| cis-1,3-Dichloropropene | 11 | 0.50 | ug/L | 10 | ND | 114 | 34-156 | | | 08/13/15 | |
| Dibromochloromethane | 11 | 0.50 | ug/L | 10 | ND | 110 | 44-149 | | | 08/13/15 | |
| Dibromomethane | 12 | 0.50 | ug/L | 10 | ND | 124 | 46-150 | | | 08/13/15 | |
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | ND | 113 | 33-170 | | | 08/13/15 | |
| Dichloromethane | 12 | 0.50 | ug/L | 10 | ND | 119 | 47-156 | | | 08/13/15 | |
| Di-isopropyl ether (DIPE) | 12 | 3.0 | ug/L | 10 | ND | 120 | 41-159 | | | 08/13/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 11 | 0.50 | ug/L | 10 | ND | 106 | 32-160 | | | 08/13/15 | |
| Ethylbenzene | 13 | 0.50 | ug/L | 10 | ND | 128 | 40-157 | | | 08/13/15 | |
| Hexachlorobutadiene | 10 | 0.50 | ug/L | 10 | ND | 102 | 38-151 | | | 08/13/15 | |
| Isopropylbenzene | 13 | 0.50 | ug/L | 10 | ND | 125 | 41-156 | | | 08/13/15 | |
| m,p-Xylenes | 25 | 0.50 | ug/L | 20 | ND | 127 | 49-154 | | | 08/13/15 | |
| Methyl-t-butyl ether | 22 | 0.50 | ug/L | 20 | ND | 110 | 41-156 | | | 08/13/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | ND | 103 | 35-154 | | | 08/13/15 | |
| n-Butylbenzene | 12 | 0.50 | ug/L | 10 | ND | 116 | 31-153 | | | 08/13/15 | |
| n-Propylbenzene | 13 | 0.50 | ug/L | 10 | ND | 127 | 39-156 | | | 08/13/15 | |
| o-Xylene | 12 | 0.50 | ug/L | 10 | ND | 123 | 27-164 | | | 08/13/15 | |
| p-Isopropyltoluene | 12 | 0.50 | ug/L | 10 | ND | 119 | 26-161 | | | 08/13/15 | |
| sec-Butylbenzene | 12 | 0.50 | ug/L | 10 | ND | 122 | 39-154 | | | 08/13/15 | |
| Styrene | 12 | 0.50 | ug/L | 10 | ND | 124 | 10-200 | | | 08/13/15 | |
| tert-Amyl Methyl Ether (TAME) | 15 | 3.0 | ug/L | 10 | ND | 152 | 24-161 | | | 08/13/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A509194

Prepared: 08/13/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A509194-MS1), Source: A5H1130-01

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|----|-----|--------|--|--|----------|------------|
| tert-Butyl alcohol (TBA) | 18 | 2.0 | ug/L | 10 | ND | 178 | 22-174 | | | 08/13/15 | MS1.0 High |
| tert-Butylbenzene | 12 | 0.50 | ug/L | 10 | ND | 119 | 40-153 | | | 08/13/15 | |
| Tetrachloroethene (PCE) | 13 | 0.50 | ug/L | 10 | ND | 125 | 48-155 | | | 08/13/15 | |
| Toluene | 14 | 0.50 | ug/L | 10 | ND | 136 | 40-159 | | | 08/13/15 | |
| trans-1,2-Dichloroethene | 13 | 0.50 | ug/L | 10 | ND | 129 | 52-157 | | | 08/13/15 | |
| trans-1,3-Dichloropropene | 11 | 0.50 | ug/L | 10 | ND | 105 | 28-160 | | | 08/13/15 | |
| Trichloroethene (TCE) | 13 | 0.50 | ug/L | 10 | ND | 126 | 49-155 | | | 08/13/15 | |
| Trichlorofluoromethane | 9.6 | 5.0 | ug/L | 10 | ND | 96 | 47-169 | | | 08/13/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | ND | 113 | 21-183 | | | 08/13/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 47 | | | 50 | | 94 | 70-130 | | | 08/13/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 97 | 70-130 | | | 08/13/15 | |

EPA 525.2 - Quality Control

Batch: A509231

Prepared: 08/13/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A509231-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 08/17/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 08/17/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 08/17/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 08/17/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 08/17/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 08/17/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 08/17/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 08/17/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 08/17/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 08/17/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 08/17/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 08/17/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 08/17/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 08/17/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 08/17/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 08/17/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.0 | | | 5.0 | | 100 | 70-130 | | | 08/17/15 | |

Blank Spike (A509231-BS1)

| | | | | | | | | | | | |
|-----------------------------|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 109 | 70-130 | | | 08/17/15 | |
| Atrazine | 0.50 | 0.50 | ug/L | 0.50 | | 101 | 70-130 | | | 08/17/15 | |
| Benzo(a)pyrene | 0.095 | 0.10 | ug/L | 0.10 | | 95 | 70-130 | | | 08/17/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 112 | 70-130 | | | 08/17/15 | |
| Bis(2-ethylhexyl) phthalate | 1.8 | 3.0 | ug/L | 1.5 | | 120 | 70-130 | | | 08/17/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 116 | 70-130 | | | 08/17/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 108 | 70-130 | | | 08/17/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | | 97 | 70-130 | | | 08/17/15 | |
| Dimethoate | 0.97 | 10 | ug/L | 1.0 | | 97 | 70-130 | | | 08/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A509231

Prepared: 08/13/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank Spike (A509231-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 107 | 70-130 | | | 08/17/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 1.0 | | 104 | 70-130 | | | 08/17/15 | |
| Molinate | 0.98 | 2.0 | ug/L | 1.0 | | 98 | 70-130 | | | 08/17/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 2.0 | | 90 | 70-130 | | | 08/17/15 | |
| Propachlor | 0.50 | 0.50 | ug/L | 0.50 | | 101 | 70-130 | | | 08/17/15 | |
| Simazine | 0.35 | 1.0 | ug/L | 0.35 | | 101 | 70-130 | | | 08/17/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 104 | 70-130 | | | 08/17/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.8 | | | 5.0 | | 96 | 70-130 | | | 08/17/15 | |

Blank Spike Dup (A509231-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | | 103 | 70-130 | 6 | 30 | 08/17/15 | |
| Atrazine | 0.46 | 0.50 | ug/L | 0.50 | | 93 | 70-130 | 8 | 30 | 08/17/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 117 | 70-130 | 21 | 30 | 08/17/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 108 | 70-130 | 3 | 30 | 08/17/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 114 | 70-130 | 5 | 30 | 08/17/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 120 | 70-130 | 3 | 30 | 08/17/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 105 | 70-130 | 3 | 30 | 08/17/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | | 100 | 70-130 | 3 | 30 | 08/17/15 | |
| Dimethoate | 0.89 | 10 | ug/L | 1.0 | | 89 | 70-130 | 9 | 30 | 08/17/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 107 | 70-130 | 0 | 30 | 08/17/15 | |
| Metribuzin | 0.96 | 0.50 | ug/L | 1.0 | | 96 | 70-130 | 7 | 30 | 08/17/15 | |
| Molinate | 0.99 | 2.0 | ug/L | 1.0 | | 99 | 70-130 | 1 | 30 | 08/17/15 | |
| Prometryn | 1.9 | 2.0 | ug/L | 2.0 | | 95 | 70-130 | 5 | 30 | 08/17/15 | |
| Propachlor | 0.52 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | 2 | 30 | 08/17/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 102 | 70-130 | 1 | 30 | 08/17/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 103 | 70-130 | 0 | 30 | 08/17/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.3 | | | 5.0 | | 86 | 70-130 | | | 08/17/15 | |

Matrix Spike (A509231-MS1), Source: A5H0960-01

| | | | | | | | | | | | |
|-----------------------------|------|------|------|-------|----|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 0.98 | ND | 114 | 70-130 | | | 08/17/15 | |
| Atrazine | 0.60 | 0.50 | ug/L | 0.49 | ND | 123 | 70-130 | | | 08/17/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.098 | ND | 118 | 70-130 | | | 08/17/15 | |
| Bis(2-ethylhexyl) adipate | 2.3 | 3.0 | ug/L | 2.0 | ND | 118 | 70-130 | | | 08/17/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 113 | 70-130 | | | 08/17/15 | |
| Bromacil | 1.2 | 10 | ug/L | 0.98 | ND | 123 | 70-130 | | | 08/17/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 0.98 | ND | 113 | 70-130 | | | 08/17/15 | |
| Diazinon | 0.20 | 0.25 | ug/L | 0.20 | ND | 104 | 70-130 | | | 08/17/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 0.98 | ND | 103 | 70-130 | | | 08/17/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 108 | 70-130 | | | 08/17/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 0.98 | ND | 101 | 70-130 | | | 08/17/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 0.98 | ND | 104 | 70-130 | | | 08/17/15 | |
| Prometryn | 2.2 | 2.0 | ug/L | 2.0 | ND | 113 | 70-130 | | | 08/17/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.49 | ND | 104 | 70-130 | | | 08/17/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.34 | ND | 100 | 70-130 | | | 08/17/15 | |
| Thiobencarb | 0.51 | 1.0 | ug/L | 0.49 | ND | 104 | 70-130 | | | 08/17/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A509231

Prepared: 08/13/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A509231-MS1), Source: A5H0960-01

Surrogate: 1,3-Dimethyl-2-nitrobenzene 4.4 4.9 90 70-130 08/17/15

EPA 531.1 - Quality Control

Batch: A509518

Prepared: 08/19/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A509518-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 08/20/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 08/20/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 08/20/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 08/20/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 08/20/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 08/20/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 08/20/15 | |

Blank Spike (A509518-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 99 | 80-120 | | | 08/20/15 | |
| Aldicarb | 3.5 | 3.0 | ug/L | 4.0 | | 87 | 80-120 | | | 08/20/15 | |
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 08/20/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/20/15 | |
| Carbaryl | 4.0 | 5.0 | ug/L | 4.0 | | 100 | 80-120 | | | 08/20/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | | 104 | 80-120 | | | 08/20/15 | |
| Methiocarb | 3.8 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | | | 08/20/15 | |
| Methomyl | 3.8 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | | | 08/20/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 101 | 80-120 | | | 08/20/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 08/20/15 | |

Blank Spike Dup (A509518-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| 3-Hydroxycarbofuran | 4.1 | 3.0 | ug/L | 4.0 | | 102 | 80-120 | 3 | 20 | 08/20/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | | 92 | 80-120 | 5 | 20 | 08/20/15 | |
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | 1 | 20 | 08/20/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 08/20/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | 2 | 20 | 08/20/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 104 | 80-120 | 1 | 20 | 08/20/15 | |
| Methiocarb | 3.8 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | 0 | 20 | 08/20/15 | |
| Methomyl | 3.8 | 2.0 | ug/L | 4.0 | | 95 | 80-120 | 1 | 20 | 08/20/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 103 | 80-120 | 2 | 20 | 08/20/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | 1 | 20 | 08/20/15 | |

Matrix Spike (A509518-MS1), Source: A5H1079-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | ND | 104 | 65-135 | | | 08/20/15 | |
| Aldicarb | 3.4 | 3.0 | ug/L | 4.0 | ND | 85 | 65-135 | | | 08/20/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A509518

Prepared: 08/19/2015

Prep Method: EPA 531.1

Analyst: AAR

Matrix Spike (A509518-MS1), Source: A5H1079-01

| | | | | | | | | | | | |
|--------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 08/20/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 08/20/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 08/20/15 | |
| Carbofuran | 4.3 | 5.0 | ug/L | 4.0 | ND | 106 | 65-135 | | | 08/20/15 | |
| Methiocarb | 4.0 | 2.0 | ug/L | 4.0 | ND | 101 | 65-135 | | | 08/20/15 | |
| Methomyl | 3.7 | 2.0 | ug/L | 4.0 | ND | 92 | 65-135 | | | 08/20/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 102 | 65-135 | | | 08/20/15 | |
| Propoxur | 4.3 | 2.0 | ug/L | 4.0 | ND | 107 | 65-135 | | | 08/20/15 | |

EPA 547 - Quality Control

Batch: A509332

Prepared: 08/17/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A509332-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 08/17/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 114 | 70-130 | | | 08/17/15 | |

Blank Spike (A509332-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 110 | 25 | ug/L | 100 | | 106 | 70-130 | | | 08/17/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 107 | 70-130 | | | 08/17/15 | |

Blank Spike Dup (A509332-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|---|----|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | | 102 | 70-130 | 4 | 30 | 08/17/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 08/17/15 | |

Matrix Spike (A509332-MS1), Source: A5H0823-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|--|
| Glyphosate | 110 | 25 | ug/L | 100 | ND | 104 | 70-130 | | | 08/17/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 103 | 70-130 | | | 08/17/15 | |

Matrix Spike Dup (A509332-MSD1), Source: A5H0823-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|---|----|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | ND | 104 | 70-130 | 1 | 30 | 08/17/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 105 | 70-130 | | | 08/17/15 | |

EPA 548.1 - Quality Control

Batch: A509316

Prepared: 08/14/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A509316-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 08/18/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A509316-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 16 | 45 | ug/L | 20 | | 80 | 46-116 | | | 08/18/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A509316-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|
| Endothall | 14 | 45 | ug/L | 20 | | 68 | 46-116 | 16 | 30 | 08/18/15 | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A509316

Prepared: 08/14/2015

Prep Method: EPA 548.1

Analyst: MTM

Matrix Spike (A509316-MS1), Source: A5H0823-01

| | | | | | | | | | | | |
|-----------|-----|----|------|----|----|----|--------|--|--|----------|-----------|
| Endothall | 2.4 | 45 | ug/L | 20 | ND | 12 | 46-116 | | | 08/18/15 | MS1.0 Low |
|-----------|-----|----|------|----|----|----|--------|--|--|----------|-----------|

EPA 549.2 - Quality Control

Batch: A509300

Prepared: 08/14/2015

Prep Method: EPA 549.2

Analyst: MTM

Blank (A509300-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 08/18/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A509300-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | | 86 | 70-130 | | | 08/18/15 | |
|--------|-----|-----|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A509300-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | | 86 | 70-130 | 0 | 30 | 08/18/15 | |
|--------|-----|-----|------|-----|--|----|--------|---|----|----------|--|

Matrix Spike (A509300-MS1), Source: A5H1079-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|
| Diquat | 3.4 | 4.0 | ug/L | 4.0 | ND | 86 | 70-130 | | | 08/18/15 | |
|--------|-----|-----|------|-----|----|----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792016-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5H1130



08122015

Monte6227

Turnaround: Standard

Due Date: 8/26/2015



Monterey Bay Analytical





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ASH1130
 Monte6227
 08/12/2015
 10



Company/Client Name*: Monterey Bay Analytical Services Report Attention*: Mason Weidner-Holland Invoice To*: David Holland Phone*: 831-375-6227 Fax*: 831-641-0734

Address*: 4 Justin Court, Suite D City*: Monterey State*: CA Zip*: 93940
 Additional cc's: David Holland P.O.#: E-mail*: mweidner@mbasinc.com, dholland@mbasinc.com

Project: Cal Am Reporting Options: Trace (J-Flag) Swamp EDD Type: Regulatory Carbon Copies SWRCB (Drinking Water) Merced Co Madera Co Tulare Co Other: EDT to California SWRCB (Drinking Water) System Number*: Regulatory Compliance E-Mail Fax Mail
 How would you like to receive your completed results? E-Mail

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX | EPA 524 | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|--------------------|---------------------|----------|------|---------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Date | Time | | | | | | | | | | |
| MW-7D (monitoring) | | 8/9/15 | 1500 | GW | AB34038 | X | X | X | X | X | X | X | X |

| Relinquished by: (Signature and Printed Name) | Company | Date | Time | Received by: (Signature and Printed Name) | Company |
|---|--------------|---------|------|---|---------|
| <i>[Signature]</i> Holland | MBAS Company | 8/11/15 | 1600 | | |

Received for Lab by: (Signature and Printed Name) *[Signature]* Michelle Weiss
 Shipping Method: NTRAC UPS GSO WALK-IN FED-EX Courier: *[Signature]* Peter/BW
 Cooling Method: Over Blue None
 Payment for services rendered as noted herein is due in full within 10 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for Laboratory Services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK%20Chain%20Conditions.pdf

Amount: *[Signature]* Custody Seal: *[Signature]* PJA#: Check Cash
 Chilling Process Begun: *[Signature]*



Sample Integrity

BSK Bottles: Yes No Page / of

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | <u>Yes</u> No NA | | Were correct containers and preservatives received for the tests requested? | | <u>Yes</u> No NA | |
|---|---|--------------|--------------------|------------|---|--------------------|------------------|--|
| | If samples were taken today, is there evidence that chilling has begun? | | Yes No <u>NA</u> | | Were there bubbles in the VOA vials? (Volatiles Only) | | Yes <u>No</u> NA | |
| | Did all bottles arrive unbroken and intact? | | <u>Yes</u> No | | Was a sufficient amount of sample received? | | <u>Yes</u> No | |
| | Did all bottle labels agree with COC? | | <u>Yes</u> No | | Do samples have a hold time <72 hours? | | Yes <u>No</u> | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | Yes No <u>NA</u> | | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | Yes No <u>NA</u> | |
| Bottles Received "—" means preservation/Chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | | Checks | Passed? | 1 | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | | — | — | | | | |
| | None (P) ^{White Cap} | | — | — | | | | |
| | Cr6 (P) ^{Br Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | | Cl, pH > 8 | Y N | | | | |
| | Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW | | pH 9.3-9.7 | Y N | | | | |
| | Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME*** | | pH 9.0-9.5 | Y N | | | | |
| | HNO ₃ (P) ^{Red Cap} | | — | — | | | | |
| | H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label} | | pH < 2 | Y N | | | | |
| | NaOH (P) ^{Green Cap} | | Cl, pH > 10 | Y N | | | | |
| | NaOH + ZnAc (P) | | pH > 9 | Y N | | | | |
| | Dissolved Oxygen 300ml (g) | | — | — | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | | — | — | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | | — | — | | | | |
| | Na ₂ O ₃ S+HCl (AG) ^{Lt. Pink Label} 525 | | — | — | 2C | | | |
| | Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549 | | — | — | 1C | | | |
| | Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | | — | — | 2A | | | |
| | Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505 | | — | — | 4V | | | |
| | Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531 | | pH < 3 | <u>Y</u> N | 1V | | | |
| | NH ₄ Cl (AG) ^{Purple Label} 552 | | — | — | | | | |
| | EDA (AG) ^{Brown Label} DBPs | | — | — | | | | |
| | HCL (CG) 524.2.BTEX, Gas, MTBE, 8260/624 | | — | — | 3V | | | |
| | Buffer pH 4 (CG) | | — | — | | | | |
| | None (CG) | | — | — | | | | |
| | H ₃ PO ₄ (CG) ^{Salmon Label} | | — | — | | | | |
| | Other: | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | | — | — | | | | | |
| Low Level Hg / Metals Double Baggie | | — | — | | | | | |
| Bottled Water | | — | — | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | | — | — | | | | | |
| Soil Tube Brass / Steel / Plastic | | — | — | | | | | |
| Tedlar Bag / Plastic Bag | | — | — | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | | |
| | S P | | | S P | | | | |
| | S P | | | S P | | | | |
| Comments | | | | | | | | |

8/12/15
NW

Labeled by: JHS @ T-16

Labels checked by: [Signature] @ 123

RUSH Paged by: @

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

August 18, 2015

Ceres ID: 10753

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on August 12, 2015. This sample was analyzed 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # AB34038.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10753-001 | MW-7D (monitoring) | 8/12/2015 | 8/9/2015 15:00 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB34038 | | Sample Size: | 1.000 L | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | ZB-5 MS Analysis Date: | 17-Aug-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.37 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 99.9 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 110 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | | Reviewed by: | BS | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|-----------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB34038 | | Sample Size: | 1.000 L | QC Batch #: | 1350 | Date Extracted: | 13-Aug-15 |
| | | | | | ZB-5 MS Analysis Date: | 17-Aug-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 11.0 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 97.3 | 25-141 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 11.2 | 3.7-15.8 | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: MW-7D (monitoring) | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10753-001 | | Date Received: 12-Aug-15 | |
| Project: AB34038 | | | Sample Size: 1.041 L | | QC Batch #: 1350 | | Date Extracted: 13-Aug-15 | |
| Date Collected: 9-Aug-15 | | | | | ZB-5 MS Analysis Date: 17-Aug-15 | | | |
| Time Collected: 15:00 | | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 2.36 | | | IS ¹³ C-2,3,7,8-TCDD | 93.7 | 31 - 137 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 103 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr, Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: _____
 Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

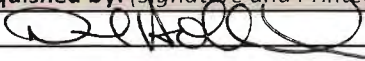
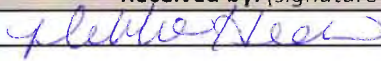
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|--|--|--|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: mweidner@mbasinc.com | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF | |
|----|--------------------|-------------------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|----------|
| | | Date | Time | Matrix | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other | |
| | | | | | | | | | | | | | Comments |
| 1 | MW-7D (monitoring) | 8/9/2015 | 1500 | Aq | 1 | X | | | | | | AB34038 | |
| 2 | | | | | | | | | | | | (2,3,7,8 TCDD only) | |
| 3 | | | | | | | | | | | | Please include excel report | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|-----------|-------|---|---------|-------|
| D. Holland  | 8/11/2015 | 16:00 |  Plebke Nees | 8/12/15 | 16:08 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10753</u> | Date/Time: <u>8/12/15</u> <u>10:06</u> |
| Client Project ID: <u>AB34038</u> | Received Temp: <u>0.3</u> °C Acceptable: <u>Y</u> / N |
| Chain of Custody Relinquished by signed? | <u>Y</u> / N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <u>NA</u> |
| Unlabeled / Illegible Samples | <u>Y</u> / N |
| Proper Containers: | <u>Y</u> / N |
| Preservation Acceptable (Chemical or Temperature)? | <u>Y</u> / N |
| Drinking Water, Sodium Thiosulfate present? | Y / N / NA |
| Aqueous sample pH: <u>7</u> | |
| List COC discrepancies: | |
| yes N 8/12/15 | |
| List Damaged Samples: | |
| yes N 8/12/15 | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10753 PB: 1350 Sample #: 1 Due Date: 8/26/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10753-1 | 1547.80g | 506.31g | 1.041 L |
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Chemist: [Signature]

Date: 8/13/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|-------------------|-------------------|----|-------------------|----|-------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1350-MB001 | Method Blank | | 1.000L | 8/13/15 JON | 8/14/15 JON | NA | 8/14/15 | NA | 8/14/15 JON |
| 0-1350-OPR001 | OPR | | 1.000L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10753-1350-001 | MW-7D (monitoring) | ✓ | 1.041L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 15:00 8/13/15
 Soxhlet Stop: 07:25 8/14/15

Samples Logged out by: 09:00 8/13/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 17
 Extracts to Instrument: 11:00 8/14/15
 Extracts returned to Storage Location: 16:00 8/17/15

Chemist: [Signature]

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|-------|-----------------|
| ISS | S021115A | 10 μl | 2/11/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 20 μl | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------|--------------------|-----------|-----------|
| Toluene | 450 ml | C15B12BLK | 7/30/16 |
| Hexanes | 30, 30, 100, 20 ml | C15C13BLK | 7/30/16 |
| SigGel | 4 g | P071615A | 1/16/16 |
| BasicGel | 4 g | P061915A | 12/19/15 |
| AcidGel | 8 g | P071615B | 1/16/16 |
| AcidAl | 6 g | P072915A | 1/29/16 |
| Na2SO4 | 1.5 g | P041515A | 10/15/15 |
| 20% Decyl Hex | 30 ml | L070515A | 1/5/16 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 09/02/15 15:25 |
| Attention: David Holland | Received Date: 08/12/15 08:45 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5H12003 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

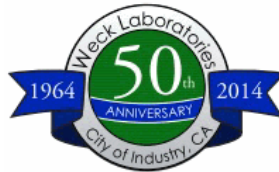
Dear David Holland :

Enclosed are the results of analyses for samples received 08/12/15 08:45 with the Chain of Custody document. The samples were received not in good condition, at 5.5 °C. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|--------------|------------|--------|----------------|
| MW-7D (monitoring) Comments: AB33853 | Matan Salmon | 5H12003-01 | Water | 08/09/15 15:00 |

ANALYSES

Anions by IC, EPA Method 9056

Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

5H12003-01 MW-7D (monitoring)

Sampled: 08/09/15 15:00

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB33853

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5H0730

Prepared: 08/15/15 09:00

Analyst: Alice T. Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 500 | ug/l | 50 | 08/15/15 10:51 | M-05 |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5H0781

Prepared: 08/14/15 12:46

Analyst: Paolo Lorenzo A. Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 08/27/15 19:24 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 08/27/15 19:24 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Endrin | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 08/27/15 19:24 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 08/27/15 19:24 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 08/27/15 19:24 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 08/27/15 19:24 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 08/27/15 19:24 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 08/27/15 19:24 | |
| Surr: Decachlorobiphenyl | 24 % | Conc:0.0240 | 70-130 | % | | S-GC |
| Surr: Tetrachloro-meta-xylene | 72 % | Conc:0.0721 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

5H12003-01 MW-7D (monitoring)

Sampled: 08/09/15 15:00

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB33853

Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

Anions by IC, EPA Method 9056 - Quality Control

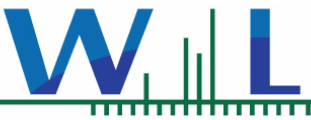
Batch W5H0730 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0730-BLK1) | | | | Analyzed: 08/15/15 09:49 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5H0730-BS1) | | | | Analyzed: 08/15/15 10:04 | | | | | | |
| Iodide | 40.2 | 10 | ug/l | 40.0 | | 101 | 85-115 | | | |
| Matrix Spike (W5H0730-MS1) | | | | Source: 5H13010-01 | | Analyzed: 08/15/15 11:45 | | | | |
| Iodide | 7160 | 1000 | ug/l | 4000 | 3250 | 98 | 80-120 | | | |
| Matrix Spike Dup (W5H0730-MSD1) | | | | Source: 5H13010-01 | | Analyzed: 08/15/15 12:05 | | | | |
| Iodide | 7440 | 1000 | ug/l | 4000 | 3250 | 105 | 80-120 | 4 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0781 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|-----|--------------|-----|-----------|-----------------|
| Blank (W5H0781-BLK1) | | | | Analyzed: 08/28/15 11:48 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0781 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5H0781-BLK1) | | | | Analyzed: 08/28/15 11:48 | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.122 | | ug/l | 0.100 | | 122 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0610 | | ug/l | 0.100 | | 61 | 70-130 | | | S-11 |
| LCS (W5H0781-BS1) | | | | Analyzed: 08/27/15 16:19 | | | | | | |
| 4,4'-DDD | 0.0966 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | | | |
| 4,4'-DDE | 0.0707 | 0.010 | ug/l | 0.100 | | 71 | 49-129 | | | |
| 4,4'-DDT | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 54-160 | | | |
| Aldrin | 0.0531 | 0.010 | ug/l | 0.100 | | 53 | 29-115 | | | |
| alpha-BHC | 0.0902 | 0.010 | ug/l | 0.100 | | 90 | 59-131 | | | |
| beta-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 63-136 | | | |
| delta-BHC | 0.118 | 0.010 | ug/l | 0.100 | | 118 | 59-137 | | | |
| Dieldrin | 0.0961 | 0.010 | ug/l | 0.100 | | 96 | 59-135 | | | |
| Endosulfan I | 0.0942 | 0.010 | ug/l | 0.100 | | 94 | 28-138 | | | |
| Endosulfan II | 0.0978 | 0.010 | ug/l | 0.100 | | 98 | 53-133 | | | |
| Endosulfan sulfate | 0.0815 | 0.010 | ug/l | 0.100 | | 82 | 58-155 | | | |
| Endrin | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 57-148 | | | |
| Endrin aldehyde | 0.0978 | 0.010 | ug/l | 0.100 | | 98 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.0896 | 0.010 | ug/l | 0.100 | | 90 | 59-129 | | | |
| Heptachlor | 0.0696 | 0.010 | ug/l | 0.100 | | 70 | 42-136 | | | |
| Heptachlor epoxide | 0.0946 | 0.010 | ug/l | 0.100 | | 95 | 59-134 | | | |
| Methoxychlor | 0.0779 | 0.010 | ug/l | 0.100 | | 78 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0943 | | ug/l | 0.100 | | 94 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0477 | | ug/l | 0.100 | | 48 | 70-130 | | | S-11 |
| Matrix Spike (W5H0781-MS1) | | | | Source: 5H13045-01 | | Analyzed: 08/28/15 17:52 | | | | |
| 4,4'-DDD | 0.119 | 0.010 | ug/l | 0.100 | ND | 119 | 62-144 | | | |
| 4,4'-DDE | 0.0880 | 0.010 | ug/l | 0.100 | ND | 88 | 53-134 | | | |
| 4,4'-DDT | 0.157 | 0.010 | ug/l | 0.100 | ND | 157 | 48-170 | | | |
| Aldrin | 0.0711 | 0.010 | ug/l | 0.100 | ND | 71 | 49-107 | | | |
| alpha-BHC | 0.118 | 0.010 | ug/l | 0.100 | ND | 118 | 47-125 | | | |
| beta-BHC | 0.129 | 0.010 | ug/l | 0.100 | ND | 129 | 62-123 | | | MS-05 |
| delta-BHC | 0.140 | 0.010 | ug/l | 0.100 | ND | 140 | 56-140 | | | |
| Dieldrin | 0.112 | 0.010 | ug/l | 0.100 | ND | 112 | 65-135 | | | |
| Endosulfan I | 0.109 | 0.010 | ug/l | 0.100 | ND | 109 | 28-119 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5H0781 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %RE | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|---------------|---------------------------|-------------|--------------------------|---------------|------------|---------------|-----|-----------|-----------------|
| Matrix Spike (W5H0781-MS1) | | Source: 5H13045-01 | | Analyzed: 08/28/15 17:52 | | | | | | |
| Endosulfan II | 0.120 | 0.010 | ug/l | 0.100 | ND | 120 | 56-127 | | | |
| Endosulfan sulfate | 0.119 | 0.010 | ug/l | 0.100 | ND | 119 | 72-171 | | | |
| Endrin | 0.129 | 0.010 | ug/l | 0.100 | ND | 129 | 53-123 | | | MS-05 |
| Endrin aldehyde | 0.130 | 0.010 | ug/l | 0.100 | ND | 130 | 34-158 | | | |
| gamma-BHC (Lindane) | 0.118 | 0.010 | ug/l | 0.100 | ND | 118 | 49-126 | | | |
| Heptachlor | 0.0942 | 0.010 | ug/l | 0.100 | ND | 94 | 56-155 | | | |
| Heptachlor epoxide | 0.109 | 0.010 | ug/l | 0.100 | ND | 109 | 55-137 | | | |
| Methoxychlor | 0.124 | 0.010 | ug/l | 0.100 | ND | 124 | 44-192 | | | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.106</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>106</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0720</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>72</i> | <i>70-130</i> | | | |
| Matrix Spike Dup (W5H0781-MSD1) | | Source: 5H13045-01 | | Analyzed: 08/28/15 18:23 | | | | | | |
| 4,4'-DDD | 0.117 | 0.010 | ug/l | 0.100 | ND | 117 | 62-144 | 2 | 25 | |
| 4,4'-DDE | 0.108 | 0.010 | ug/l | 0.100 | ND | 108 | 53-134 | 20 | 25 | |
| 4,4'-DDT | 0.155 | 0.010 | ug/l | 0.100 | ND | 155 | 48-170 | 1 | 25 | |
| Aldrin | 0.0700 | 0.010 | ug/l | 0.100 | ND | 70 | 49-107 | 2 | 25 | |
| alpha-BHC | 0.105 | 0.010 | ug/l | 0.100 | ND | 105 | 47-125 | 11 | 25 | |
| beta-BHC | 0.122 | 0.010 | ug/l | 0.100 | ND | 122 | 62-123 | 5 | 25 | |
| delta-BHC | 0.132 | 0.010 | ug/l | 0.100 | ND | 132 | 56-140 | 6 | 25 | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | ND | 108 | 65-135 | 3 | 25 | |
| Endosulfan I | 0.104 | 0.010 | ug/l | 0.100 | ND | 104 | 28-119 | 4 | 25 | |
| Endosulfan II | 0.115 | 0.010 | ug/l | 0.100 | ND | 115 | 56-127 | 4 | 25 | |
| Endosulfan sulfate | 0.114 | 0.010 | ug/l | 0.100 | ND | 114 | 72-171 | 4 | 25 | |
| Endrin | 0.123 | 0.010 | ug/l | 0.100 | ND | 123 | 53-123 | 5 | 25 | |
| Endrin aldehyde | 0.102 | 0.010 | ug/l | 0.100 | ND | 102 | 34-158 | 23 | 25 | |
| gamma-BHC (Lindane) | 0.107 | 0.010 | ug/l | 0.100 | ND | 107 | 49-126 | 10 | 25 | |
| Heptachlor | 0.0912 | 0.010 | ug/l | 0.100 | ND | 91 | 56-155 | 3 | 25 | |
| Heptachlor epoxide | 0.105 | 0.010 | ug/l | 0.100 | ND | 105 | 55-137 | 4 | 25 | |
| Methoxychlor | 0.121 | 0.010 | ug/l | 0.100 | ND | 121 | 44-192 | 2 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.101</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>101</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0724</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>72</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 08/12/15 08:45
Date Reported: 09/02/15 15:25

Notes and Definitions

| | |
|--------------|---|
| S-GC | Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. |
| S-11 | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| MS-05 | The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|--|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | | |
| Field Parameters: | | | | | | | | | | | |
| Temp: 19.7°C | | | | | | | | | | | |
| pH: 6.77 | | | | | | | | | | | |
| Sp Cond: 39065 µS/cm | | | | | | | | | | | |
| Turb: 0.85 NTU | | | | | | | | | | | |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nraynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|------|-----------------|-------------------|----------|---------|-------|--------|---------|-----------|------|------|
| | | | Date | Time | | CL2 | Residual | Routine | Other | Repeat | | Special | Type | Size |
| 334038 | | MW-7D | 8/9/15 | 1500 | SL | | | | | | | | | |
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| | | | | | | | | | | | | | | |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|------------------------------|-----------|---------|-------|--|
| Sampled by: | Matan Salmon | | 8/9/15 | 15:00 | Is sample for regulatory purposes? Yes / No Sample for metals (150ml) was preserved w/ 2ml of 50% HNO3 |
| Relinquished by: | ↓ | ↓ | 8/10/15 | 11:15 | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | Monterey Bay Analytical Serv | | 8/10/15 | 11:15 | |

[] Payment received Check # Amount: Receipt # Date:

ERH



Monterey Bay Analytical Services

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS

www.MBASinc.com

ELAP Certification Number: 2385

California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

Page 1 of 2

Monday, July 06, 2015

Lab Number: AB31150

Collection Date/Time: 5/28/2015 16:48

Sample Collector: KEITA A.

Submittal Date/Time: 5/28/2015 17:55

Sample ID

Sample Description: MW-8S

| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|---------------|-------------|---------------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 320 | | 2 | 6/9/2015 | LJ |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 6/3/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 6/5/2015 | MW |
| Arsenic, Total | EPA200.8 | µg/L | 1 | | 1 | 6/3/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 57 | | 10 | 6/3/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 390 | | 10 | 6/10/2015 | LJ |
| Boron, Dissolved | EPA200.7 | mg/L | 0.22 | | 0.5 | 5/29/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 0.9 | | 0.1 | 5/29/2015 | TC |
| Calcium | EPA200.7 | mg/L | 149 | | 5 | 5/29/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 151 | | 5 | 5/29/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 6/17/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 6/10/2015 | LJ |
| Chloride, Dissolved | EPA300.0 | mg/L | 261 | | 1 | 5/29/2015 | TC |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Attached | E | | 6/17/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 3 | | 3 | 5/29/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 100 | 5/29/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 6/10/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 6/15/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 6/15/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 6/5/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.1 | | 0.1 | 5/29/2015 | TC |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 6/5/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 578 | | 10 | 6/1/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 6/10/2015 | LJ |
| Iodide | EPA9056M | µg/L | Not Detected | E | 12 | 6/5/2015 | WECK |
| Iron | EPA200.7 | µg/L | 104 | | 100 | 5/29/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | 99 | | 100 | 5/29/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 6/17/2015 | HM |
| Lithium | EPA200.8 | µg/L | Not Detected | | 1 | 6/12/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 50 | | 5 | 5/29/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 51 | | 5 | 5/29/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL

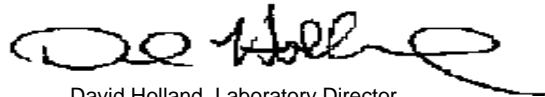
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|------------------------------------|-------------|----------|---------------------|------|-----------|-----|
| Manganese, Dissolved | EPA200.7 | µg/L | Not Detected | 100 | 5/29/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | Not Detected | 100 | 5/29/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | 0.05 | 5/29/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 123 | 1 | 5/30/2015 | TC |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 28.2 | 0.1 | 5/30/2015 | TC |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.4 | 0.1 | 5/29/2015 | TC |
| Odor Threshold at 60 C | SM2150B | TON | 2 | 1 | 5/29/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.10 | 0.03 | 5/29/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.13 | | 5/28/2015 | AK |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.4 | 0.1 | 5/29/2015 | HM |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 6/6/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.11 | 0.03 | 6/16/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 4.1 | 5 | 5/29/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 4.3 | 5 | 5/29/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.62 | | 6/3/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 6/6/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 37 | 5 | 5/29/2015 | MW |
| Sodium | EPA200.7 | mg/L | 262 | 5 | 5/29/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 265 | 5 | 5/29/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 2036 | 1 | 6/2/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 2004 | 1 | 5/28/2015 | AK |
| Strontium, Dissolved | EPA200.8 | µg/L | 868 | 5 | 6/3/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 258 | 1 | 5/29/2015 | TC |
| Temperature (Field) | SM2550 | ° C | 16.83 | | 5/28/2015 | AK |
| Total Diss. Solids | SM2540C | mg/L | 1260 | 10 | 6/1/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.10 | 0.05 | 5/29/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.92 | 0.05 | 5/28/2015 | AK |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Attached | E | 6/4/2015 | BSK |
| Zinc | EPA200.7 | µg/L | 636 | 100 | 5/29/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 31150 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 262 | 0.04350 | 11.40 |
| Potassium | 4.1 | 0.02558 | 0.10 |
| Calcium | 149 | 0.04990 | 7.44 |
| Magnesium | 50 | 0.08229 | 4.11 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 23.05 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 320 | 0.02000 | 6.40 |
| Sulfate | 258 | 0.02082 | 5.37 |
| Chloride | 261 | 0.02821 | 7.36 |
| Nitrate-Nitrogen | 27.7 | 0.07138 | 1.98 |
| Phosphate-P | 0.00 | 0.01031 | 0.00 |
| Bromide | 0.9 | 0.01252 | 0.01 |
| | | SUM | 21.12 |

ANION-CATION BALANC 4 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|------|
| Conductivity | 2036 | |
| Cation Sum X 100 | 2305 | 113% |
| Anion Sum X 100 | 2112 | 104% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 265 | 0.04350 | 11.53 |
| Potassium | 4.3 | 0.02558 | 0.11 |
| Calcium | 151 | 0.04990 | 7.53 |
| Magnesium | 51 | 0.08229 | 4.20 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 23.37 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 320 | 0.02000 | 6.40 |
| Sulfate | 258 | 0.02082 | 5.37 |
| Chloride | 261 | 0.02821 | 7.36 |
| Nitrate-Nitrogen | 27.7 | 0.07138 | 1.98 |
| Phosphate-P | 0.00 | 0.01031 | 0.00 |
| Bromide | 0.9 | 0.01252 | 0.01 |
| | | SUM | 21.12 |

ANION-CATION BA 5 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|------|
| Conductivity | 2036 | |
| Cation Sum X 100 | 2337 | 115% |
| Anion Sum X 100 | 2112 | 104% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 6/9/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|-----------------|------------------|-------|--------------------------|-------|
| ICV | 40 | 41 | 102.5 | 95-105 | 13:01 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|-------|
| AB31164 D | 398 | 398 | 0 | 5 | 13:43 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Color QC Summary (SM 2120B)

Date Analyzed: 5/29/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|------|
| ICVB | --- | ND | --- | <3 | 1725 |
| ICV | 5 | 5 | 100.0 | 80-120 | 1725 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|------|
| AB31152 | 100 | 100 | 0.0 | 10 | 1725 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB31190

Date Analyzed
Wednesday, June 03, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 113.3 | 0.10 | 140.3 | 133.5 | 4.99 | 4928.2 | 50 | -457.0 | -453.9 | 0.7 | 104.9 | 153.1 | 37.34 | 0.43 |
| Aluminum | 0.0 | 94.5 | 1.35 | 108.8 | 105.1 | 3.45 | 8.2 | 50 | 82.6 | 83.7 | 1.3 | 98.0 | 103.9 | 5.90 | 0.16 |
| Arsenic | 0.0 | 97.3 | -0.09 | 103.5 | 99.7 | 3.71 | 259.3 | 50 | 65.4 | 73.3 | 11.4 | 98.9 | 98.3 | 0.64 | 0.09 |
| Strontium | 0.0 | 104.1 | 0.01 | 106.0 | 102.8 | 3.12 | 4242.5 | 50 | -356.6 | -161.2 | 75.5 | 102.8 | 101.2 | 1.60 | 0.01 |
| Barium | 0.0 | 99.2 | 0.00 | 103.7 | 100.7 | 2.89 | 99.2 | 50 | 80.4 | 86.4 | 7.2 | 99.4 | 94.0 | 5.55 | 0.00 |

Note: Li and Be data not reported.

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample

AB31448

Date Analyzed

Friday, June 12, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|---------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | 3-Jun | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.1 | 97.6 | 1.07 | 106.2 | 101.0 | 5.06 | 52.7 | 50 | 99.1 | 108.8 | 9.3 | 93.2 | 107.7 | 14.40 | 0.06 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate;
MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 6/5/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|-------|
| ICVB | --- | ND | --- | <0.05 | 11:00 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 11:00 |
| ICV | 0.500 | 0.490 | 98.00% | 90-110 | 11:00 |
| CCVB1 | --- | ND | --- | <0.05 | 11:00 |
| CCV1 | 0.500 | 0.460 | 92.00% | 90-110 | 11:00 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|-------|
| | | | | | | | | MS/MSD | RPD | |
| AB31031 | 0.000 | 0.500 | 0.420 | 0.470 | 84 | 94 | 11.2 | 85-120 | 10 | 11:00 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 5/29/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.85 | 6.85 | 100.0 | 95-105 | 1455 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB31165 | 7.4 | 7.4 | 0 | 10 | 1455 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery



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Phosphorus QC Summary (Hach 8190)

Date: 6/16/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 14:09 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 14:09 |
| ICV | 0.50 | 0.54 | 108 | 90-110 | 14:09 |
| QCS | 0.50 | 0.50 | 100 | 80-120 | 14:09 |
| ICV | 0.50 | 0.52 | 104 | 90-110 | 15:54 |
| QCS | 0.50 | 0.50 | 100 | 80-120 | 15:54 |
| CCV | 0.50 | 0.53 | 106 | 80-120 | 15:54 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB31032 | 0.07 | 0.50 | 0.54 | 0.56 | 94 | 98 | 3.6 | 70-130 | 10 | 15:54 | 15:54 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCSL = Laboratory Control Standard Low; QCS = Quality Control Standard;

ICV= Initial Calibration Verification, CCV= Continuing Calibration Verification, RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 6/2/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1412 | 100.0% | 95-105 | 935 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB31139 | 564 | 562 | 0.4% | 10 | 935 |
| AB31160 | 2111 | 2097 | 0.7% | 10 | 945 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 6/1/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 3 | --- | <10 | 940 |
| ICVL | 100 | 103 | 103 | 80-120 | 940 |
| ICV | 500 | 506 | 101.2 | 90-110 | 940 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB31140 | 617 | 608 | 1.5 | 10 | 940 |
| AB31154 | 860 | 851 | 1.1 | 10 | 1015 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 5/29/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | ND | --- | <0.05 | 859 |
| ICV | 1.00 | 1.04 | 104.0% | 95-105 | 859 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB31030 | 2.2 | 2.2 | 0.00% | 10 | 859 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150529

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|-------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | -0.01 | 0.00 | 1.01 | 101.1% | 0.99 | 99.5% | 1.6% | 1 | 0.95 | 94.7% | 1 | 1.0 | 95.7% |
| B 249.772 | 0.05-5ppm | 0.00 | 0.01 | 1.03 | 103.5% | 1.01 | 101.1% | 2.3% | 1 | 0.96 | 96.0% | 1 | 1.0 | 98.2% |
| Ca 317.933 | 50-300ppm | -7.16 | -7.14 | 50.1 | 100.1% | 49.4 | 98.8% | 1.4% | 50 | 46.8 | 93.6% | 50 | 48.3 | 96.7% |
| Ca 396.847 | 0.5-50ppm | -0.27 | -0.25 | 51.1 | 102.3% | 50.6 | 101.3% | 0.9% | 50 | 48.0 | 96.1% | 50 | 50.3 | 100.6% |
| Cu 324.754 | 10ppb-100ppm | -4.50 | -2.24 | 1037 | 103.7% | 1017 | 101.7% | 1.9% | 1000 | 950 | 95.0% | 1000 | 1012.7 | 101.3% |
| Cu 327.395 | 10ppb-100ppm | -3.77 | -3.70 | 1037 | 103.7% | 1019 | 101.9% | 1.8% | 1000 | 949 | 94.9% | 1000 | 1016.0 | 101.6% |
| Fe 238.204 | 10ppb-100ppm | -0.41 | -1.02 | 1005 | 100.5% | 985 | 98.5% | 2.0% | 1000 | 957 | 95.7% | 1000 | 996.9 | 99.7% |
| Fe 259.940 | 10ppb-100ppm | -1.37 | -2.08 | 1031 | 103.1% | 1009 | 100.9% | 2.1% | 1000 | 973 | 97.3% | 1000 | 1026.0 | 102.6% |
| K 766.491 | 0.5-750ppm | -0.15 | -0.14 | 10.3 | 103.5% | 10.4 | 103.5% | 0.0% | 10 | 9.7 | 96.6% | 10 | 10.3 | 103.3% |
| Mg 202.582 | 50-1000ppm | -3.01 | -3.04 | 52.4 | 104.9% | 51.0 | 101.9% | 2.9% | 50 | 48.9 | 97.7% | 50 | 51.7 | 103.4% |
| Mg 279.078 | 0.5-50ppm | -0.03 | 0.01 | 51.2 | 102.4% | 50.2 | 100.4% | 2.0% | 50 | 48.2 | 96.4% | 50 | 50.2 | 100.3% |
| Mn 257.610 | 10ppb-11ppm | -3.42 | -2.99 | 1013 | 101.3% | 995 | 99.5% | 1.8% | 1000 | 958 | 95.8% | 1000 | 1005.7 | 100.6% |
| Mn 260.568 | 10ppb-11ppm | -3.69 | -2.72 | 1044 | 104.4% | 1020 | 102.0% | 2.3% | 1000 | 982 | 98.2% | 1000 | 1035.3 | 103.5% |
| Na 568.821 | 50-1000ppm | 4.31 | 4.79 | 52.2 | 104.5% | 51.9 | 103.8% | 0.7% | 50 | 45.8 | 91.5% | 50 | 50.1 | 100.2% |
| Na 589.592 | 0.5-50ppm | 0.02 | 0.11 | 51.6 | 103.2% | 51.2 | 102.5% | 0.7% | 50 | 47.6 | 95.3% | 50 | 51.4 | 102.7% |
| Si 251.611 | 0.5-200ppm | -0.07 | -0.08 | 51.2 | 102.5% | 50.3 | 100.6% | 1.8% | 50 | 49.4 | 98.9% | 50 | 51.4 | 102.8% |
| Si 252.411 | 0.5-200ppm | -0.01 | -0.03 | 49.5 | 99.1% | 48.9 | 97.8% | 1.4% | 50 | 48.2 | 96.3% | 50 | 49.9 | 99.8% |
| Zn 213.857 | 10ppb-50ppm | -7.22 | -7.56 | 993 | 99.3% | 979 | 97.9% | 1.4% | 1000 | 965 | 96.5% | 1000 | 976.7 | 97.7% |

Sample ID AB31021

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|-------|-------|-------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.16 | 1.05 | 89.5% | 1.03 | 87.7% | 1.7% | 1 | 0.89 | 88.7% | 6.5% | 0.00 |
| B 249.772 | 0.16 | 1.08 | 92.6% | 1.08 | 91.9% | 0.7% | 1 | 0.91 | 91.2% | 5.1% | 0.00 |
| Ca 317.933 | 12.4 | 65.6 | 106.5% | 66.1 | 107.3% | 0.7% | 50 | 46.4 | 92.8% | 0.9% | -7.11 |
| Ca 396.847 | 17.0 | 60.7 | 87.4% | 60.7 | 87.6% | 0.1% | 50 | 45.0 | 90.0% | 6.5% | -0.22 |
| Cu 324.754 | -1 | 921 | 92.1% | 916 | 91.7% | 0.5% | 1000 | 902 | 90.2% | 5.3% | -2.99 |
| Cu 327.395 | -3 | 925 | 92.8% | 920 | 92.3% | 0.5% | 1000 | 908 | 90.8% | 4.3% | -2.61 |
| Fe 238.204 | 105 | 1048 | 94.3% | 1045 | 94.1% | 0.2% | 1000 | 926 | 92.6% | 3.3% | 0.40 |
| Fe 259.940 | 111 | 1076 | 96.5% | 1065 | 95.4% | 1.0% | 1000 | 947 | 94.7% | 2.7% | 0.49 |
| K 766.491 | 0.9 | 10.4 | 95.3% | 10.5 | 96.1% | 0.7% | 10 | 9.4 | 93.6% | 3.2% | -0.15 |
| Mg 202.582 | 3.6 | 53.8 | 100.4% | 53.7 | 100.1% | 0.2% | 50 | 47.0 | 94.0% | 3.9% | -2.92 |
| Mg 279.078 | 6.1 | 53.0 | 93.8% | 52.8 | 93.4% | 0.4% | 50 | 46.5 | 93.0% | 3.6% | 0.02 |
| Mn 257.610 | 4 | 945 | 94.1% | 939 | 93.5% | 0.6% | 1000 | 918 | 91.8% | 4.2% | -3.14 |
| Mn 260.568 | 4 | 988 | 98.4% | 980 | 97.5% | 0.9% | 1000 | 962 | 96.2% | 2.0% | -3.24 |
| Na 568.821 | 45.7 | 91.0 | 90.6% | 91.1 | 90.9% | 0.2% | 50 | 44.3 | 88.6% | 3.3% | 3.87 |
| Na 589.592 | 46.9 | 90.3 | 86.8% | 90.9 | 87.9% | 0.6% | 50 | 46.0 | 92.1% | 3.4% | 0.22 |
| Si 251.611 | 9.1 | 57.4 | 96.6% | 57.0 | 95.9% | 0.6% | 50 | 48.6 | 97.1% | 1.8% | -0.02 |
| Si 252.411 | 8.6 | 54.8 | 92.3% | 54.3 | 91.3% | 0.9% | 50 | 46.0 | 91.9% | 4.7% | 0.01 |
| Zn 213.857 | 709 | 1595 | 88.5% | 1594 | 88.4% | 0.1% | 1000 | 951 | 95.1% | 1% | -4.89 |

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300.0 QC Report

All units expressed in mg/L

Batch ID: 20150529.00

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|-------------------|-------|-------|-------|-------|-------|-------|
| Spike amount | 2.0 | 20.0 | 2.0 | 20.0 | 2.0 | 2.0 |
| ICVB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ICV | 2.0 | 20.4 | 2.1 | 20.9 | 1.9 | 1.9 |
| Rec 90-110% | 101.6 | 102.0 | 103.1 | 104.3 | 94.1 | 96.2 |
| ICVL | 0.2 | 1.8 | 0.2 | 1.7 | 0.2 | 0.2 |
| Rec 50-150% | 96.6 | 89.7 | 100.6 | 85.4 | 116.8 | 105.8 |
| | | | | | | |
| Sample ID AB31133 | 0.1 | 18.9 | 0.2 | 44.0 | 0.1 | 0.9 |
| MS | 2.0 | 38.7 | 2.1 | 63.8 | 1.9 | 2.7 |
| Rec 80-120% | 92.4 | 98.7 | 96.1 | 98.9 | 93.1 | 92.6 |
| MSD | 2.0 | 38.6 | 2.1 | 63.8 | 2.0 | 2.7 |
| Rec 80-120% | 92.2 | 98.6 | 95.9 | 99.3 | 93.5 | 92.4 |
| Diff 10% | 0.2 | 0.1 | 0.2 | 0.1 | 0.4 | 0.2 |
| CCV | 2.0 | 20.4 | 2.1 | 21.0 | 1.9 | 2.0 |
| Rec 90-110% | 101.6 | 102.2 | 104.6 | 104.9 | 96.1 | 97.7 |
| Diff 10% | 0.0 | 0.2 | 1.5 | 0.6 | 2.2 | 1.5 |
| CCVB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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MBAS QC Summary (SM 5540C)

Date Analyzed: 5/29/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.02 | --- | <0.05 | 834 |
| ICVL | 0.050 | 0.046 | 92 | 80-120 | 835 |
| ICV | 0.250 | 0.249 | 99.6 | 80-120 | 1037 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB31150 | 0.016 | 0.250 | 0.258 | 0.251 | 96.8 | 94 | 2.8 | 80/120 | 10 | 1016 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 5/29/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 14:46 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 14:46 |
| ICV | 0.30 | 0.30 | 100 | 90-110 | 14:46 |
| QCS | 0.30 | 0.28 | 93 | 80-120 | 14:46 |
| CCV | 0.30 | 0.30 | 100 | 80-120 | 14:46 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB31150 | 0.10 | 0.30 | 0.39 | 0.41 | 97 | 103 | 5.0 | 70-130 | 10 | 14:46 | 14:46 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

June 17, 2015

Ceres ID: 10682

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on June 3, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

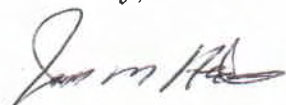
This work was authorized under M.B.A.'s Project # AB31150.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10682-001 | MW-8S (monitoring) | 6/3/2015 | 5/28/2015 16:48 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB31150 | | Sample Size: | 1.000 L | QC Batch #: | 1329 | Date Extracted: | 15-Jun-15 |
| | | | | | ZB-5 MS Analysis Date: | 17-Jun-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.37 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 99.7 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 105 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | | Reviewed by: | BS | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|-----------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB31150 | | Sample Size: | 1.000 L | QC Batch #: | 1329 | Date Extracted: | 15-Jun-15 |
| | | | | | ZB-5 MS Analysis Date: | 17-Jun-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 11.0 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 93.2 | 25-141 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 104 | 3.7-15.8 | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-8S (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10682-001 | | Date Received: 3-Jun-15 |
| Project: AB31150 | | | Sample Size: 1.016 L | | QC Batch #: 1329 | | Date Extracted: 15-Jun-15 |
| Date Collected: 28-May-15 | | | | | ZB-5 MS Analysis Date: 17-Jun-15 | | |
| Time Collected: 16:48 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.73 | | | IS ¹³ C-2,3,7,8-TCDD | 83.1 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 93.8 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

Chain of Custody

Ceres Use Only

Pg. ___ of ___

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: 10682
Temperature: 2.8 °C

Reports and invoices will be delivered by email in .pdf format

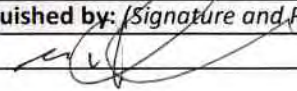
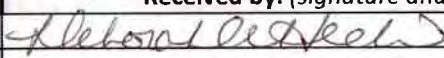
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|---|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) Results by 4/13/15 Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
E: Effluent SD: Sediment C: Clay SO: Solid
I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|----|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | | Date | Time | | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 1 | MW-8S (monitoring) | 5/28/2015 | 1648 | Aq | 1 | X | | | | | | | AB31150 |
| 2 | | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | | Please include excel report |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|---|--------|-------|
| D. Holland  | 6/2/2015 | 16:00 |  Deborah DeStefano | 6/3/15 | 10:10 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10682</u> | Date/Time: <u>6/3/15 10:10</u> |
| Client Project ID: <u>AB31150</u> | Received <u>2.8</u> Temperature: Acceptable: <u>(Y)N</u> |
| Chain of Custody Relinquished by signed? | <u>(Y)N</u> |
| Custody Seals? Present? | <u>(Y)N</u> |
| Intact? | Y / N |
| NA: | NA |
| Unlabeled / Illegible Samples | Y <u>(N)</u> |
| Proper Containers: | <u>(Y)N</u> |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <u>(Y)N</u> |
| Drinking Water, Sodium Thiosulfate present? | Y / N / NA |
| List COC discrepancies: | <u>NOAN 6/3/15</u> |
| List Damaged Samples: | <u>NOAN 6/3/15</u> |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10682 PB: 1329 Sample #s: 1 Due Date: 6/17/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

- 1 Calibrate balance
- 2 Tare balance
- 3 Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt
- 4 Weigh empty bottle and cap. Record as Bottle Wt
- 5 Calculate sample Volume (assuming 1g = 1ml) as follows

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10682-1 | 1536.59g | 520.18g | 1.016L |
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Chemist J Date 6/15/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|---------|-------------------|-------------------|-------------------|-------------------|----|-----------|----|-------------------|-------------------|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | chem/date/witness | chem/date/witness |
| 0-1329-MB001 | Method Blank | | 1.000 L | J 6/15/15 | J 6/15/15 | J 6/15/15 | J 6/15/15 | NA | J 6/15/15 | NA | J 6/15/15 | J 6/15/15 |
| 0-1329-OPR001 | OPR | | 1.000 L | (A) ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10682-1329-001 | MW-8S (monitoring) | ✓ | 1.016 L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | | | | |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 14:50 6/15/15
 Soxhlet Stop: 08:55 6/15/15

Samples Logged out by: J 07:15 6/15/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 16 11:00 6/15/15
 Extracts to Instrument: 11:00 6/15/15 J
 Extracts returned to Storage Location: 13:50 6/17/15 J

Chemist: J

Method: 1613A
SOP #: 201.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | 5021115A | 10l | 2/10/20 |
| NSS | B | ↓ | ↓ |
| CSS | C | ↓ | ↓ |
| RSS | D | 20l | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|--------------------|----------|-----------|
| Toluene | 450ml | 145871 | 4/3/16 |
| Hexanes | 30, 30, 100, 20 ml | 147232 | 4/3/16 |
| S: Gel | 4g | P060215A | 12/2/15 |
| Basic Gel | 4g | P021915A | 8/19/15 |
| Acid Gel | 8g | P060215B | 12/2/15 |
| Acid Al | 6g | P042015A | 10/20/15 |
| Na ₂ SO ₄ | 1.5g | P041515A | 10/15/15 |
| 20% DCM: Hex | 30ml | L060115A | 12/1/15 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 06/19/15 09:30 |
| Attention: David Holland | Received Date: 06/03/15 10:00 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5F03038 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

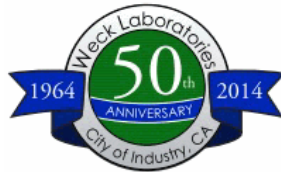
Dear David Holland :

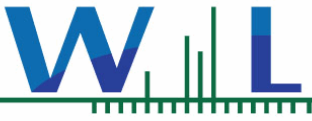
Enclosed are the results of analyses for samples received 06/03/15 10:00 with the Chain of Custody document. The samples were received in good condition, at 3.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|------------------------------|--------------|------------|--------|----------------|
| MW-8S (monitoring) (AB31150) | Andrew Kieta | 5F03038-01 | Water | 05/28/15 16:48 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

5F03038-01 MW-8S (monitoring)**Sampled:** 05/28/15 16:48**Sampled By:** Andrew Kieta**Matrix:** Water**Anions by IC, EPA Method 9056**

Method: EPA 9056M

Batch: W5F0320

Prepared: 06/05/15 13:00

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|------|----------------|-----------|
| Iodide | ND | 12 | ug/l | 1.25 | 06/05/15 15:58 | M-05 |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5F0162

Prepared: 06/03/15 11:53

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--------------------------------------|--------------|--------------------|---------------|----------|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 06/17/15 23:22 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 06/17/15 23:22 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Dieldrin | 0.013 | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Endosulfan sulfate | 0.032 | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Endrin | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 06/17/15 23:22 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 06/17/15 23:22 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 06/17/15 23:22 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 06/17/15 23:22 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 06/17/15 23:22 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 06/17/15 23:22 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>108 %</i> | <i>Conc:0.108</i> | <i>70-130</i> | <i>%</i> | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>94 %</i> | <i>Conc:0.0944</i> | <i>70-130</i> | <i>%</i> | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

Anions by IC, EPA Method 9056 - Quality Control

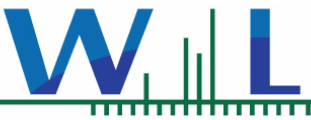
Batch W5F0320 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5F0320-BLK1) | | | | Analyzed: 06/05/15 13:51 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5F0320-BS1) | | | | Analyzed: 06/05/15 14:21 | | | | | | |
| Iodide | 41.2 | 10 | ug/l | 40.0 | | 103 | 85-115 | | | |
| Matrix Spike (W5F0320-MS1) | | | | Source: 5F03038-01 | | Analyzed: 06/05/15 16:29 | | | | |
| Iodide | 46.2 | 12 | ug/l | 50.0 | 2.55 | 87 | 80-120 | | | |
| Matrix Spike Dup (W5F0320-MSD1) | | | | Source: 5F03038-01 | | Analyzed: 06/05/15 17:03 | | | | |
| Iodide | 48.5 | 12 | ug/l | 50.0 | 2.55 | 92 | 80-120 | 5 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5F0162 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5F0162-BLK1) | | | | Analyzed: 06/17/15 21:20 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5F0162 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5F0162-BLK1) | | | | | | | | | | |
| Analyzed: 06/17/15 21:20 | | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.101 | | ug/l | 0.100 | | 101 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0741 | | ug/l | 0.100 | | 74 | 70-130 | | | |
| LCS (W5F0162-BS1) | | | | | | | | | | |
| Analyzed: 06/17/15 21:50 | | | | | | | | | | |
| 4,4'-DDD | 0.116 | 0.010 | ug/l | 0.100 | | 116 | 55-142 | | | |
| 4,4'-DDE | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 49-129 | | | |
| 4,4'-DDT | 0.120 | 0.010 | ug/l | 0.100 | | 120 | 54-160 | | | |
| Aldrin | 0.0952 | 0.010 | ug/l | 0.100 | | 95 | 29-115 | | | |
| alpha-BHC | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-131 | | | |
| beta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 63-136 | | | |
| delta-BHC | 0.128 | 0.010 | ug/l | 0.100 | | 128 | 59-137 | | | |
| Dieldrin | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 59-135 | | | |
| Endosulfan I | 0.0858 | 0.010 | ug/l | 0.100 | | 86 | 28-138 | | | |
| Endosulfan II | 0.0919 | 0.010 | ug/l | 0.100 | | 92 | 53-133 | | | |
| Endosulfan sulfate | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 58-155 | | | |
| Endrin | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 57-148 | | | |
| Endrin aldehyde | 0.110 | 0.010 | ug/l | 0.100 | | 110 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 59-129 | | | |
| Heptachlor | 0.0985 | 0.010 | ug/l | 0.100 | | 99 | 42-136 | | | |
| Heptachlor epoxide | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-134 | | | |
| Methoxychlor | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.113 | | ug/l | 0.100 | | 113 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0862 | | ug/l | 0.100 | | 86 | 70-130 | | | |
| LCS Dup (W5F0162-BSD1) | | | | | | | | | | |
| Analyzed: 06/17/15 22:21 | | | | | | | | | | |
| 4,4'-DDD | 0.0974 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | 17 | 25 | |
| 4,4'-DDE | 0.0968 | 0.010 | ug/l | 0.100 | | 97 | 49-129 | 14 | 25 | |
| 4,4'-DDT | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 54-160 | 15 | 25 | |
| Aldrin | 0.0889 | 0.010 | ug/l | 0.100 | | 89 | 29-115 | 7 | 25 | |
| alpha-BHC | 0.0990 | 0.010 | ug/l | 0.100 | | 99 | 59-131 | 5 | 25 | |
| beta-BHC | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 63-136 | 16 | 25 | |
| delta-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 59-137 | 18 | 25 | |
| Dieldrin | 0.0929 | 0.010 | ug/l | 0.100 | | 93 | 59-135 | 14 | 25 | |
| Endosulfan I | 0.0753 | 0.010 | ug/l | 0.100 | | 75 | 28-138 | 13 | 25 | |
| Endosulfan II | 0.0777 | 0.010 | ug/l | 0.100 | | 78 | 53-133 | 17 | 25 | |
| Endosulfan sulfate | 0.0885 | 0.010 | ug/l | 0.100 | | 88 | 58-155 | 18 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5F0162 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|---------------|-------|-------------|--------------------------|---------------|------------|---------------|-----|-----------|-----------------|
| LCS Dup (W5F0162-BSD1) | | | | Analyzed: 06/17/15 22:21 | | | | | | |
| Endrin | 0.0922 | 0.010 | ug/l | 0.100 | | 92 | 57-148 | 13 | 25 | |
| Endrin aldehyde | 0.0901 | 0.010 | ug/l | 0.100 | | 90 | 45-139 | 20 | 25 | |
| gamma-BHC (Lindane) | 0.0976 | 0.010 | ug/l | 0.100 | | 98 | 59-129 | 9 | 25 | |
| Heptachlor | 0.0921 | 0.010 | ug/l | 0.100 | | 92 | 42-136 | 7 | 25 | |
| Heptachlor epoxide | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 59-134 | 13 | 25 | |
| Methoxychlor | 0.0868 | 0.010 | ug/l | 0.100 | | 87 | 56-167 | 16 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.110</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>110</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0793</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>79</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 06/03/15 10:00
Date Reported: 06/19/15 09:30

Notes and Definitions

| | |
|--------------|---|
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5F0265

6/15/2015

Invoice: A512315

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5F0265 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/3/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 6/03/2015 - 10:30 Report Due: 6/17/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 2.6 | Containers Intact COC/Labels Agree Preservation Confirmed Received On Wet Ice Received On Blue Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5F0265-01
Sampled By: Andrew Kieta
Sample Description: MW-8M (monitoring) // AB31153

Sample Date - Time: 05/29/15 - 10:56
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|----------------------------------|-----------|--------|-----|-------|---------|---------|----------|----------|------|
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A506519 | 06/11/15 | 06/12/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A506519

Prepared: 06/11/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Blank (A506519-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 06/12/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 06/12/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 06/12/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 06/12/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 06/12/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 06/12/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 06/12/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 06/12/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 06/12/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 06/12/15 | |

Blank Spike (A506519-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 101 | 80-120 | | | 06/12/15 | |
| Aldicarb | 3.9 | 3.0 | ug/L | 4.0 | | 97 | 80-120 | | | 06/12/15 | |
| Aldicarb Sulfone | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | | | 06/12/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | | 103 | 80-120 | | | 06/12/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | | | 06/12/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 103 | 80-120 | | | 06/12/15 | |
| Methiocarb | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 06/12/15 | |
| Methomyl | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 06/12/15 | |
| Oxamyl | 4.2 | 20 | ug/L | 4.0 | | 105 | 80-120 | | | 06/12/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | | | 06/12/15 | |

Blank Spike Dup (A506519-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 1 | 20 | 06/12/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | | 93 | 80-120 | 4 | 20 | 06/12/15 | |
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | 1 | 20 | 06/12/15 | |
| Aldicarb Sulfoxide | 4.2 | 3.0 | ug/L | 4.0 | | 105 | 80-120 | 2 | 20 | 06/12/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | 0 | 20 | 06/12/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 103 | 80-120 | 0 | 20 | 06/12/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | 1 | 20 | 06/12/15 | |
| Methomyl | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | 4 | 20 | 06/12/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 103 | 80-120 | 2 | 20 | 06/12/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | 5 | 20 | 06/12/15 | |

Matrix Spike (A506519-MS1), Source: A5F0265-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.4 | 3.0 | ug/L | 4.0 | ND | 110 | 65-135 | | | 06/12/15 | |
| Aldicarb | 4.4 | 3.0 | ug/L | 4.0 | ND | 110 | 65-135 | | | 06/12/15 | |
| Aldicarb Sulfone | 4.4 | 2.0 | ug/L | 4.0 | ND | 111 | 65-135 | | | 06/12/15 | |
| Aldicarb Sulfoxide | 4.4 | 3.0 | ug/L | 4.0 | ND | 111 | 65-135 | | | 06/12/15 | |
| Carbaryl | 4.3 | 5.0 | ug/L | 4.0 | ND | 108 | 65-135 | | | 06/12/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | ND | 106 | 65-135 | | | 06/12/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 06/12/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | ND | 110 | 65-135 | | | 06/12/15 | |
| Oxamyl | 4.5 | 20 | ug/L | 4.0 | ND | 112 | 65-135 | | | 06/12/15 | |

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A506519

Prepared: 06/11/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Matrix Spike (A506519-MS1), Source: A5F0265-01

| | | | | | | | | | | | |
|----------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Propoxur | 4.3 | 2.0 | ug/L | 4.0 | ND | 107 | 65-135 | | | 06/12/15 | |
|----------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

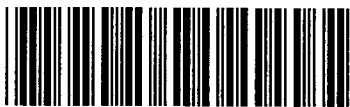
| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5F0265



06032015

Monte6227

Turnaround: Standard

Due Date: 6/17/2015



Monterey Bay Analytical





1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

240

Turnaround Time Request
Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A5F0265
Montre6227
06/03/2015
10

Company/Client Name*: **Monterey Bay Analytical Services** Report Attention*: **Mason Weidner-Holland** Invoice To*: **David Holland** Phone*: **831-375-6227** Fax: **831-641-0734**

Address*: **4 Justin Court, Suite D** City*: **Monterey** State*: **CA** Zip*: **93940**

Additional CC's: **David Holland** PO#:

Project: **Cal Am** Project #: _____ How would you like to receive your completed results? E-Mail Fax Mail

Reporting Options: Trace (J-Flag) Swamp EDD Type: _____

Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Fresno Co Madera Co Tulare Co Other:

Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number*: _____

Sampler Name (Printed/Signature)*: **Andrew Kieta**

Matrix Types: SW=Surface Water BW=Boiled Water GW=Ground Water VW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX |
|---|---------------------|----------|------|---------|---------------------------------|
| | | Date | Time | | |
| 1 | MMW-8M (monitoring) | 5/29/15 | 1056 | GW | AB31153 |
| | | | | | |
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| | | | | | |

Relinquished by: (Signature and Printed Name) **D. Holland** Company: **MBAS** Date: **6/2/15** Time: **1600** Received by: (Signature and Printed Name) _____ Company: _____

Relinquished by: (Signature and Printed Name) _____ Company: _____

Received for Lab by: (Signature and Printed Name) _____

Shipping Method: **ONTRAC** UPS **None** GSO WALK-IN FED EX Courier: _____

Cooling Method: **Wet** **Bubble**

Payment for services rendered noted in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK%20Lab%20Terms%20Conditions.pdf

Chilling Process Begun: **Yes** Amount: **Y** P/A#: **BKD**

Custody Seal: **Y** **Be**

Company: **MBAS** Date: **6/2/15** Time: **16:30** Payment Received at Delivery: _____

Check / Cash _____



Sample Integrity

BSK Bottles: Yes No Page 9 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | | Yes | No | NA | Were correct containers and preservatives received for the tests requested? | | | Yes | No | NA |
|---|--|--------------|--------------------|---------|----|-----------|---|--------------------|--|-----|----|----|
| | If samples were taken today, is there evidence that chilling has begun? | | | Yes | No | NA | Were there bubbles in the VOA vials? (Volatiles Only) | | | Yes | No | NA |
| | Did all bottles arrive unbroken and intact? | | | Yes | No | | Was a sufficient amount of sample received? | | | Yes | No | |
| | Did all bottle labels agree with COC? | | | Yes | No | | Do samples have a hold time <72 hours? | | | Yes | No | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | | Yes | No | NA | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | | Yes | No | NA |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | | Checks | Passed? | | | | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | | — | — | | | | | | | | |
| | None (P) ^{White Cap} | | — | — | | | | | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | | Cl, pH > 8 | Y | N | | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | | pH 9-9.5 | Y | N | | | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | | pH 9.3-9.7 | Y | N | | | | | | | |
| | HNO ₃ (P) ^{Red Cap} | | — | — | | | | | | | | |
| | H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label} | | pH < 2 | Y | N | | | | | | | |
| | NaOH (P) ^{Green Cap} | | Cl, pH > 10 | Y | N | | | | | | | |
| | NaOH + ZnAc (P) | | pH > 9 | Y | N | | | | | | | |
| | Dissolved Oxygen 300ml (g) | | — | — | | | | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | | — | — | | | | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | | — | — | | | | | | | | |
| | Na ₂ O ₃ +HCl (AG) ^{Lt. Pink Label} 525 | | — | — | | | | | | | | |
| | Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549 | | — | — | | | | | | | | |
| | Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | | — | — | | | | | | | | |
| | Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505 | | — | — | | | | | | | | |
| | Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531 | | pH < 3 | Y | N | | | | | | | |
| | NH ₄ Cl (AG) ^{Purple Label} 552 | | — | — | | | | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | | — | — | | | | | | | | |
| | HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624 | | — | — | | | | | | | | |
| | Buffer pH 4 (CG) | | — | — | | | | | | | | |
| | None (CG) | | — | — | | | | | | | | |
| | H ₃ PO ₄ (CG) ^{Salmon Label} | | — | — | | | | | | | | |
| | Other: | | | | | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | | — | — | | | | | | | | | |
| Low Level Hg / Metals Double Baggie | | — | — | | | | | | | | | |
| Bottled Water | | — | — | | | | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | | — | — | | | | | | | | | |
| Soil Tube Brass / Steel / Plastic | | — | — | | | | | | | | | |
| Tedlar Bag / Plastic Bag | | — | — | | | | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | | | Container | Preservative | Date/Time/Initials | | | | |
| | S P | | | | | S P | | | | | | |
| | S P | | | | | S P | | | | | | |
| Comments | | | | | | | | | | | | |
| | | | | | | | | | | | | |

1

ew

6/3/15

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|----------------------|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | |
| Field Parameters: | | | | | | | | | | |
| | | | | | | | | | | Temp: 16.83 |
| | | | | | | | | | | pH: 7.13 |
| | | | | | | | | | | Sp Cond: 2,004 us/cm |
| | | | | | | | | | | Turb: 0.92 |

| | | | |
|--|---|----------------------|--|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com, susan.jacobson@amwater.com, nreynolds@geoscience-water.com, bvillalobos@geoscience-water.com | | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 | |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | |
|------------|-----------------------------|---|----------|-------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size |
| 31150 | | MW-85 <u>See Attach.</u> | 5/28 | 16:48 | 12.7° | | | | | | 21 | | |
| | | | | | | | | | | | | | |
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| | Printed Name | Signature | Date | Time | Comment |
|------------------|---------------|-----------|---------|------|---|
| Sampled by: | Andrew Kietz | | 5/28/15 | 1755 | Is sample for regulatory purposes? Yes / No add 4ml HCl Hg to 2 x 250 ml metals bottles |
| Relinquished by: | | | | | |
| Received by: | David Holland | | 5/28/15 | 1755 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

[] Payment received Check # Amount: Receipt # Date:

JA

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L 6PII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| <i>Volatile Organic Compounds</i> | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| <i>EPA Organic Methods</i> | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA

<2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
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| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
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| | | | |

Comments

Filter 1L 0.45 μ vacuum filtration + divide \rightarrow 500mL + H₂SO₄ + Na₂S₂O₃ for diss. TKW, NH₃
 membrane
 \hookrightarrow 250mL + H₂SO₄ for diss. Total P
 \hookrightarrow 250mL 101-preserve for ortho phosphate



California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
 831.375.MBAS
 www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB31032

Collection Date/Time: 5/27/2015 12:38 Sample Collector: KIETA A
 Submittal Date/Time: 5/27/2015 14:13 Sample ID

Sample Description: MW-8M

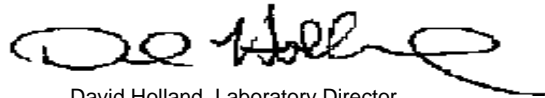
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|----------------------------------|---------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 140 | | 2 | 6/2/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | 292 | | 100 | 5/28/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 6/5/2015 | MW |
| Arsenic, Total | EPA200.8 | µg/L | 28 | | 10 | 5/28/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 154 | | 100 | 5/28/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 171 | | 10 | 6/2/2015 | LRH |
| Boron, Dissolved | EPA200.7 | mg/L | 1.83 | | 0.5 | 5/29/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 42.1 | | 1 | 5/29/2015 | TC |
| Calcium | EPA200.7 | mg/L | 1110 | | 5 | 5/29/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 1140 | | 5 | 5/29/2015 | MW |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 6/2/2015 | LRH |
| Chloride, Dissolved | EPA300.0 | mg/L | 12380 | | 100 | 5/29/2015 | TC |
| Chlorinated Pesticides and PCB (| EPA508 | µg/L | Not Detected | E | | 6/10/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | Not Detected | | 3 | 5/28/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 100 | 5/29/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 6/3/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 6/5/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 5/29/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 6/3/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.4 | J | 1 | 5/29/2015 | TC |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 6/10/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 6080 | | 10 | 6/1/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 6/2/2015 | LRH |
| Iodide | EPA9056M | µg/L | Not Detected | E | 10 | 6/5/2015 | WECK |
| Iron | EPA200.7 | µg/L | Not Detected | | 100 | 5/29/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | Not Detected | | 100 | 5/29/2015 | MW |
| Kjeldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 6/2/2015 | TC |
| Lithium | EPA200.8 | µg/L | 132 | | 10 | 5/28/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 801 | | 5 | 5/29/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 828 | | 5 | 5/29/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 353 | | 100 | 5/29/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|----------------------------------|-------------|----------|---------------------|---|------|-----------|-----|
| Manganese, Total | EPA200.7 | µg/L | 354 | | 100 | 5/29/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 5/28/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 5 | | 10 | 5/29/2015 | TC |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 1.5 | | 1.00 | 5/29/2015 | TC |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.4 | J | 1 | 5/29/2015 | TC |
| Odor Threshold at 60 C | SM2150B | TON | 1 | | 1 | 5/28/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.06 | | 0.03 | 5/28/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 6.67 | | | 5/27/2015 | AK |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.2 | | 0.1 | 5/27/2015 | HM |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | | 6/6/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.07 | | 0.03 | 6/16/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 108 | | 5 | 5/29/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 111 | | 5 | 5/29/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.69 | | | 6/1/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 6/2/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 30 | | 5 | 5/29/2015 | MW |
| Sodium | EPA200.7 | mg/L | 6106 | | 5 | 5/29/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 6270 | | 5 | 5/29/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 35020 | | 1 | 5/28/2015 | HM |
| Specific Conductance (E.C) (Fiel | SM2510B | µmhos/cm | 35040 | | 1 | 5/27/2015 | AK |
| Strontium, Dissolved | EPA200.8 | µg/L | 8504 | | 50 | 5/28/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 1743 | | 1 | 5/29/2015 | TC |
| Temperature (Field) | SM2550 | ° C | 17.17 | | | 5/27/2015 | AK |
| Total Diss. Solids | SM2540C | mg/L | 24000 | | 10 | 6/1/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.10 | | 0.05 | 5/29/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.56 | | 0.05 | 5/27/2015 | AK |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 6/1/2015 | BSK |
| Zinc | EPA200.7 | µg/L | 340 | | 100 | 5/29/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 31032 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 6106 | 0.04350 | 265.61 |
| Potassium | 108 | 0.02558 | 2.76 |
| Calcium | 1110 | 0.04990 | 55.39 |
| Magnesium | 801 | 0.08229 | 65.91 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 389.68 |

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 6270 | 0.04350 | 272.75 |
| Potassium | 111 | 0.02558 | 2.84 |
| Calcium | 1140 | 0.04990 | 56.89 |
| Magnesium | 828 | 0.08229 | 68.14 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 400.61 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 140 | 0.02000 | 2.80 |
| Sulfate | 1743 | 0.02082 | 36.29 |
| Chloride | 12380 | 0.02821 | 349.24 |
| Nitrate-Nitrogen | 1.1 | 0.07138 | 0.08 |
| Phosphate-P | 0.00 | 0.01031 | 0.00 |
| Bromide | 42.1 | 0.01252 | 0.53 |
| | | SUM | 388.93 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 140 | 0.02000 | 2.80 |
| Sulfate | 1743 | 0.02082 | 36.29 |
| Chloride | 12380 | 0.02821 | 349.24 |
| Nitrate-Nitrogen | 1.1 | 0.07138 | 0.08 |
| Phosphate-P | 0.00 | 0.01031 | 0.00 |
| Bromide | 42.1 | 0.01252 | 0.53 |
| | | SUM | 388.93 |

ANION-CATION BALANC 0 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 35020 | |
| Cation Sum X 100 | 38968 | 111% |
| Anion Sum X 100 | 38893 | 111% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

ANION-CATION BA 1 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 35020 | |
| Cation Sum X 100 | 40061 | 114% |
| Anion Sum X 100 | 38893 | 111% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5E2342

6/10/2015

Invoice: A511936

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5E2342 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 5/28/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 5/28/2015 - 11:03 Report Due: 6/11/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 0.0 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Packing Material - Bubble Wrap Packing Material - Paper Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- CV0.0 CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS1.5 Matrix spike recovery exceeds upper control limit. No material impact as sample results are Non-Detected.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5E2342-01
Sampled By: Andrew Kieta
Sample Description: MW-8M (monitoring) // AB31032

Sample Date - Time: 05/27/15 - 12:38
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A506098 | 06/03/15 | 06/03/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A506098 | 06/03/15 | 06/03/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 106 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A506230 | 06/05/15 | 06/06/15 | |
| Surrogate: DCPAA | EPA 515.3 | 98 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |

Certificate of Analysis

Sample ID: A5E2342-01
Sampled By: Andrew Kieta
Sample Description: MW-8M (monitoring) // AB31032

Sample Date - Time: 05/27/15 - 12:38
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|---------|---------|----------|----------|----------------------------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505981 | 06/01/15 | 06/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 99 % | | | | | | | Acceptable range: 70-130 % |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 104 % | | | | | | | Acceptable range: 70-130 % |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5E2342-01
Sampled By: Andrew Kieta
Sample Description: MW-8M (monitoring) // AB31032

Sample Date - Time: 05/27/15 - 12:38
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-----------------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | BS1.0 |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | BS1.0, MS1.5 |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505996 | 06/01/15 | 06/02/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 102 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A506427 | 06/10/15 | 06/10/15 | |
| Surrogate: AMPA | EPA 547 | 92 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A506087 | 06/02/15 | 06/03/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A505920 | 05/28/15 | 05/29/15 | CV0.0 |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A506098

Prepared: 06/03/2015

Prep Method: EPA 504.1

Analyst: PYA

Blank (A506098-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 06/03/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 06/03/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 103 | 70-130 | | | 06/03/15 | |

Blank Spike (A506098-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.14 | 0.010 | ug/L | 0.12 | | 109 | 70-130 | | | 06/03/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.12 | | 105 | 70-130 | | | 06/03/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.49 | | | 0.46 | | 106 | 70-130 | | | 06/03/15 | |

Blank Spike Dup (A506098-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.13 | 0.010 | ug/L | 0.12 | | 106 | 70-130 | 2 | 20 | 06/04/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.12 | | 103 | 70-130 | 2 | 20 | 06/04/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 106 | 70-130 | | | 06/04/15 | |

Matrix Spike (A506098-MS1), Source: A5F0039-06

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|------|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.28 | 0.010 | ug/L | 0.13 | 0.18 | 82 | 65-135 | | | 06/03/15 | |
| Ethylene Dibromide (EDB) | 0.13 | 0.020 | ug/L | 0.13 | ND | 100 | 65-135 | | | 06/03/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.49 | | | 0.46 | | 105 | 70-130 | | | 06/03/15 | |

EPA 515.3 - Quality Control

Batch: A506230

Prepared: 06/05/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A506230-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 06/05/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 06/05/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 06/05/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 06/05/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 06/05/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 06/05/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 06/05/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 06/05/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 06/05/15 | |
| Surrogate: DCPAA | 42 | | | 58 | | 72 | 70-130 | | | 06/05/15 | |

Blank Spike (A506230-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|----|--------|--|--|----------|--|
| 2,4,5-T | 3.6 | 1.0 | ug/L | 4.0 | | 91 | 70-130 | | | 06/05/15 | |
| 2,4,5-TP (Silvex) | 0.72 | 1.0 | ug/L | 0.80 | | 91 | 70-130 | | | 06/05/15 | |
| 2,4-D | 0.37 | 10 | ug/L | 0.40 | | 92 | 70-130 | | | 06/05/15 | |
| Bentazon | 7.9 | 2.0 | ug/L | 8.0 | | 99 | 70-130 | | | 06/05/15 | |
| Dalapon | 3.9 | 10 | ug/L | 4.0 | | 97 | 70-130 | | | 06/05/15 | |
| Dicamba | 5.8 | 1.5 | ug/L | 6.0 | | 97 | 70-130 | | | 06/05/15 | |
| Dinoseb | 0.77 | 2.0 | ug/L | 0.80 | | 96 | 70-130 | | | 06/05/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 95 | 70-130 | | | 06/05/15 | |
| Picloram | 0.36 | 1.0 | ug/L | 0.40 | | 91 | 70-130 | | | 06/05/15 | |

BSK Associates Fresno
Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A506230

Prepared: 06/05/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A506230-BS1)

| | | | | | | | | | | | |
|------------------|----|--|--|----|--|----|--------|--|--|----------|--|
| Surrogate: DCPAA | 55 | | | 58 | | 96 | 70-130 | | | 06/05/15 | |
|------------------|----|--|--|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A506230-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|----|----|----------|--|
| 2,4,5-T | 3.8 | 1.0 | ug/L | 4.0 | | 95 | 70-130 | 4 | 20 | 06/06/15 | |
| 2,4,5-TP (Silvex) | 0.76 | 1.0 | ug/L | 0.80 | | 95 | 70-130 | 4 | 20 | 06/06/15 | |
| 2,4-D | 0.40 | 10 | ug/L | 0.40 | | 99 | 70-130 | 8 | 20 | 06/06/15 | |
| Bentazon | 7.9 | 2.0 | ug/L | 8.0 | | 99 | 70-130 | 0 | 20 | 06/06/15 | |
| Dalapon | 4.1 | 10 | ug/L | 4.0 | | 102 | 70-130 | 5 | 20 | 06/06/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | | 98 | 70-130 | 2 | 20 | 06/06/15 | |
| Dinoseb | 0.87 | 2.0 | ug/L | 0.80 | | 109 | 70-130 | 12 | 20 | 06/06/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 96 | 70-130 | 1 | 20 | 06/06/15 | |
| Picloram | 0.39 | 1.0 | ug/L | 0.40 | | 98 | 70-130 | 7 | 20 | 06/06/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 06/06/15 | |

Matrix Spike (A506230-MS1), Source: A5E2070-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 3.8 | 1.0 | ug/L | 4.0 | ND | 96 | 70-130 | | | 06/05/15 | |
| 2,4,5-TP (Silvex) | 0.70 | 1.0 | ug/L | 0.80 | ND | 87 | 70-130 | | | 06/05/15 | |
| 2,4-D | 0.40 | 10 | ug/L | 0.40 | ND | 99 | 70-130 | | | 06/05/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | ND | 101 | 70-130 | | | 06/05/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | ND | 108 | 70-130 | | | 06/05/15 | |
| Dicamba | 6.0 | 1.5 | ug/L | 6.0 | ND | 100 | 70-130 | | | 06/05/15 | |
| Dinoseb | 0.78 | 2.0 | ug/L | 0.80 | ND | 98 | 70-130 | | | 06/05/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 97 | 70-130 | | | 06/05/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | ND | 101 | 70-130 | | | 06/05/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 06/05/15 | |

Matrix Spike Dup (A506230-MSD1), Source: A5E2070-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 3.8 | 1.0 | ug/L | 4.0 | ND | 96 | 70-130 | 0 | 20 | 06/05/15 | |
| 2,4,5-TP (Silvex) | 0.72 | 1.0 | ug/L | 0.80 | ND | 90 | 70-130 | 3 | 20 | 06/05/15 | |
| 2,4-D | 0.40 | 10 | ug/L | 0.40 | ND | 99 | 70-130 | 0 | 20 | 06/05/15 | |
| Bentazon | 7.9 | 2.0 | ug/L | 8.0 | ND | 99 | 70-130 | 1 | 20 | 06/05/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | ND | 108 | 70-130 | 0 | 20 | 06/05/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | ND | 99 | 70-130 | 1 | 20 | 06/05/15 | |
| Dinoseb | 0.80 | 2.0 | ug/L | 0.80 | ND | 100 | 70-130 | 2 | 20 | 06/05/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 96 | 70-130 | 0 | 20 | 06/05/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | ND | 100 | 70-130 | 1 | 20 | 06/05/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 06/05/15 | |

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A505981-BLK1)

| | | | | | | | | | | | |
|---------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A505981-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 06/01/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 06/01/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 06/01/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 06/01/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 06/01/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 06/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A505981-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 06/01/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 06/01/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 06/01/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 98 | 70-130 | | | 06/01/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 101 | 70-130 | | | 06/01/15 | |

Blank Spike (A505981-BS1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 1,1,1-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 109 | 70-130 | | | 06/01/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| 1,1-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 1,1-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 06/01/15 | |
| 1,2,4-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 06/01/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 1,3-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 2,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 102 | 70-130 | | | 06/01/15 | |
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 102 | 70-130 | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A505981-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 4-Chlorotoluene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | | 101 | 70-130 | | | 06/01/15 | |
| Acetone | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | | | 06/01/15 | |
| Benzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 06/01/15 | |
| Bromoform | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 06/01/15 | |
| Bromomethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| Carbon disulfide | 11 | 10 | ug/L | 10 | | 111 | 70-130 | | | 06/01/15 | |
| Carbon Tetrachloride | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 06/01/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| Chloromethane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | | | 06/01/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 06/01/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 06/01/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | | | 06/01/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Hexachlorobutadiene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | | | 06/01/15 | |
| Isopropylbenzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| m,p-Xylenes | 21 | 0.50 | ug/L | 20 | | 105 | 70-130 | | | 06/01/15 | |
| Methyl-t-butyl ether | 21 | 0.50 | ug/L | 20 | | 104 | 70-130 | | | 06/01/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 06/01/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 06/01/15 | |
| n-Propylbenzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| p-Isopropyltoluene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| sec-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| Styrene | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | | | 06/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 10 | 3.0 | ug/L | 10 | | 104 | 70-130 | | | 06/01/15 | |
| tert-Butyl alcohol (TBA) | 9.4 | 2.0 | ug/L | 10 | | 94 | 70-130 | | | 06/01/15 | |
| tert-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Tetrachloroethene (PCE) | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| Toluene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| trans-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | | | 06/01/15 | |
| trans-1,3-Dichloropropene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 06/01/15 | |
| Trichloroethene (TCE) | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 06/01/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 112 | 70-130 | | | 06/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A505981-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|--|--|-----|--|-----|--------|--|--|----------|--|
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 102 | 70-130 | | | 06/01/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 102 | 70-130 | | | 06/01/15 | |

Blank Spike Dup (A505981-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1,1-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1,2,2-Tetrachloroethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 06/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 110 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,1-Dichloropropene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,2,4-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,2,4-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,2-Dichloroethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 06/01/15 | |
| 1,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,3-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 1,3-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 06/01/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 2,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 06/01/15 | |
| 2-Chlorotoluene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 06/01/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 06/01/15 | |
| 4-Chlorotoluene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 06/01/15 | |
| Acetone | 9.9 | 10 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 06/01/15 | |
| Benzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Bromobenzene | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 2 | 30 | 06/01/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 0 | 30 | 06/01/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 0 | 30 | 06/01/15 | |
| Bromoform | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 7 | 30 | 06/01/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | 7 | 30 | 06/01/15 | |
| Carbon disulfide | 11 | 10 | ug/L | 10 | | 110 | 70-130 | 1 | 30 | 06/01/15 | |
| Carbon Tetrachloride | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 0 | 30 | 06/01/15 | |
| Chlorobenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| Chloroform | 11 | 0.50 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 06/01/15 | |
| Chloromethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 06/01/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 06/01/15 | |
| Dibromochloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 06/01/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505981

Prepared: 06/01/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A505981-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|---|----|----------|--|
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 06/01/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| Di-isopropyl ether (DIPE) | 11 | 3.0 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Ethylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Hexachlorobutadiene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 1 | 30 | 06/01/15 | |
| Isopropylbenzene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| m,p-Xylenes | 21 | 0.50 | ug/L | 20 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Methyl-t-butyl ether | 21 | 0.50 | ug/L | 20 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 4 | 30 | 06/01/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 1 | 30 | 06/01/15 | |
| n-Propylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| o-Xylene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| p-Isopropyltoluene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| sec-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| Styrene | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | 2 | 30 | 06/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 10 | 3.0 | ug/L | 10 | | 104 | 70-130 | 0 | 30 | 06/01/15 | |
| tert-Butyl alcohol (TBA) | 9.8 | 2.0 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 06/01/15 | |
| tert-Butylbenzene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 2 | 30 | 06/01/15 | |
| Tetrachloroethene (PCE) | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 06/01/15 | |
| Toluene | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 06/01/15 | |
| trans-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 1 | 30 | 06/01/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 06/01/15 | |
| Trichloroethene (TCE) | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 06/01/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 110 | 70-130 | 2 | 30 | 06/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 111 | 70-130 | 2 | 30 | 06/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 102 | 70-130 | | | 06/01/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 102 | 70-130 | | | 06/01/15 | |

Matrix Spike (A505981-MS1), Source: A5E2406-02

| | | | | | | | | | | | |
|-----------------------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Di-isopropyl ether (DIPE) | 9.6 | 3.0 | ug/L | 10 | ND | 96 | 70-130 | | | 06/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 102 | 70-130 | | | 06/01/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 101 | 70-130 | | | 06/01/15 | |

EPA 525.2 - Quality Control

Batch: A505996

Prepared: 06/01/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A505996-BLK1)

| | | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 06/01/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 06/01/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 06/01/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 06/01/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A505996

Prepared: 06/01/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A505996-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Butachlor | ND | 0.38 | ug/L | | | | | | | 06/01/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 06/01/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 06/01/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 06/01/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 06/01/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 06/01/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 06/01/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 06/01/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 102 | 70-130 | | | 06/01/15 | |

Blank Spike (A505996-BS1)

| | | | | | | | | | | | |
|--|-------|------|------|------|--|-----|--------|--|--|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | | | 06/01/15 | |
| Atrazine | 0.49 | 0.50 | ug/L | 0.50 | | 98 | 70-130 | | | 06/01/15 | |
| Benzo(a)pyrene | 0.094 | 0.10 | ug/L | 0.10 | | 94 | 70-130 | | | 06/01/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 109 | 70-130 | | | 06/01/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 110 | 70-130 | | | 06/01/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 122 | 70-130 | | | 06/01/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 102 | 70-130 | | | 06/01/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.20 | | 93 | 70-130 | | | 06/01/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 106 | 70-130 | | | 06/01/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 107 | 70-130 | | | 06/01/15 | |
| Metribuzin | 1.4 | 0.50 | ug/L | 1.0 | | 139 | 70-130 | | | 06/01/15 | BS High |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 105 | 70-130 | | | 06/01/15 | |
| Prometryn | 1.7 | 2.0 | ug/L | 2.0 | | 86 | 70-130 | | | 06/01/15 | |
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | | | 06/01/15 | |
| Simazine | 0.34 | 1.0 | ug/L | 0.35 | | 97 | 70-130 | | | 06/01/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.50 | | 101 | 70-130 | | | 06/01/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 102 | 70-130 | | | 06/01/15 | |

Blank Spike Dup (A505996-BSD1)

| | | | | | | | | | | | |
|-----------------------------|------|------|------|------|--|-----|--------|----|----|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | 0 | 30 | 06/02/15 | |
| Atrazine | 0.51 | 0.50 | ug/L | 0.50 | | 102 | 70-130 | 4 | 30 | 06/02/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.10 | | 121 | 70-130 | 25 | 30 | 06/02/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 109 | 70-130 | 0 | 30 | 06/02/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 111 | 70-130 | 1 | 30 | 06/02/15 | |
| Bromacil | 1.3 | 10 | ug/L | 1.0 | | 133 | 70-130 | 9 | 30 | 06/02/15 | BS High |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 107 | 70-130 | 5 | 30 | 06/02/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | | 90 | 70-130 | 3 | 30 | 06/02/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 106 | 70-130 | 0 | 30 | 06/02/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 111 | 70-130 | 3 | 30 | 06/02/15 | |
| Metribuzin | 1.4 | 0.50 | ug/L | 1.0 | | 142 | 70-130 | 2 | 30 | 06/02/15 | BS High |
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 107 | 70-130 | 2 | 30 | 06/02/15 | |
| Prometryn | 1.9 | 2.0 | ug/L | 2.0 | | 95 | 70-130 | 10 | 30 | 06/02/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A505996

Prepared: 06/01/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank Spike Dup (A505996-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|---|----|----------|--|
| Propachlor | 0.51 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | 0 | 30 | 06/02/15 | |
| Simazine | 0.37 | 1.0 | ug/L | 0.35 | | 106 | 70-130 | 9 | 30 | 06/02/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 104 | 70-130 | 3 | 30 | 06/02/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.2 | | | 5.0 | | 104 | 70-130 | | | 06/02/15 | |

Matrix Spike (A505996-MS1), Source: A5E2342-01

| | | | | | | | | | | | |
|--|------|------|------|-------|----|-----|--------|--|--|----------|------------|
| Alachlor | 1.1 | 1.0 | ug/L | 0.97 | ND | 112 | 70-130 | | | 06/02/15 | |
| Atrazine | 0.49 | 0.50 | ug/L | 0.48 | ND | 101 | 70-130 | | | 06/02/15 | |
| Benzo(a)pyrene | 0.11 | 0.10 | ug/L | 0.097 | ND | 118 | 70-130 | | | 06/02/15 | |
| Bis(2-ethylhexyl) adipate | 1.9 | 3.0 | ug/L | 1.9 | ND | 100 | 70-130 | | | 06/02/15 | |
| Bis(2-ethylhexyl) phthalate | 1.5 | 3.0 | ug/L | 1.5 | ND | 107 | 70-130 | | | 06/02/15 | |
| Bromacil | 1.2 | 10 | ug/L | 0.97 | ND | 126 | 70-130 | | | 06/02/15 | |
| Butachlor | 0.99 | 0.38 | ug/L | 0.97 | ND | 102 | 70-130 | | | 06/02/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.19 | ND | 94 | 70-130 | | | 06/02/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 0.97 | ND | 106 | 70-130 | | | 06/02/15 | |
| Metolachlor | 2.0 | 0.50 | ug/L | 1.9 | ND | 105 | 70-130 | | | 06/02/15 | |
| Metribuzin | 1.3 | 0.50 | ug/L | 0.97 | ND | 137 | 70-130 | | | 06/02/15 | MS1.0 High |
| Molinate | 0.95 | 2.0 | ug/L | 0.97 | ND | 98 | 70-130 | | | 06/02/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 1.9 | ND | 95 | 70-130 | | | 06/02/15 | |
| Propachlor | 0.47 | 0.50 | ug/L | 0.48 | ND | 97 | 70-130 | | | 06/02/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.34 | ND | 106 | 70-130 | | | 06/02/15 | |
| Thiobencarb | 0.50 | 1.0 | ug/L | 0.48 | ND | 104 | 70-130 | | | 06/02/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.7 | | | 4.8 | | 97 | 70-130 | | | 06/02/15 | |

EPA 547 - Quality Control

Batch: A506427

Prepared: 06/10/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A506427-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 06/10/15 | |
| Surrogate: AMPA | 130 | | | 100 | | 126 | 70-130 | | | 06/10/15 | |

Blank Spike (A506427-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 97 | 25 | ug/L | 100 | | 97 | 70-130 | | | 06/10/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 115 | 70-130 | | | 06/10/15 | |

Blank Spike Dup (A506427-BSD1)

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|--|----|--------|---|----|----------|--|
| Glyphosate | 94 | 25 | ug/L | 100 | | 94 | 70-130 | 3 | 30 | 06/10/15 | |
| Surrogate: AMPA | 85 | | | 100 | | 85 | 70-130 | | | 06/10/15 | |

Matrix Spike (A506427-MS1), Source: A5E2342-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | ND | 101 | 70-130 | | | 06/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 98 | 70-130 | | | 06/10/15 | |

Matrix Spike Dup (A506427-MSD1), Source: A5E2342-01

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 547 - Quality Control

Batch: A506427

Prepared: 06/10/2015

Prep Method: EPA 547

Analyst: WPR

Matrix Spike Dup (A506427-MSD1), Source: A5E2342-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|--|
| Glyphosate | 93 | 25 | ug/L | 100 | ND | 91 | 70-130 | 10 | 30 | 06/10/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 06/10/15 | |

EPA 548.1 - Quality Control

Batch: A506087

Prepared: 06/02/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank (A506087-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 06/03/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A506087-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 90 | 46-116 | | | 06/03/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A506087-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|
| Endothall | 16 | 45 | ug/L | 20 | | 81 | 46-116 | 11 | 30 | 06/03/15 | |
|-----------|----|----|------|----|--|----|--------|----|----|----------|--|

Matrix Spike (A506087-MS1), Source: A5E2327-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|
| Endothall | ND | 45 | ug/L | 20 | ND | 0 | 46-116 | | | 06/03/15 | MS1.0 Low |
|-----------|----|----|------|----|----|---|--------|--|--|----------|------------------|

Matrix Spike (A506087-MS2), Source: A5E2333-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|
| Endothall | 10 | 45 | ug/L | 20 | ND | 52 | 46-116 | | | 06/03/15 | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|

EPA 549.2 - Quality Control

Batch: A505920

Prepared: 05/28/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A505920-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 05/29/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A505920-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| Diquat | 5.1 | 4.0 | ug/L | 4.0 | | 127 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|

Blank Spike Dup (A505920-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| Diquat | 5.0 | 4.0 | ug/L | 4.0 | | 125 | 70-130 | 2 | 30 | 05/29/15 | |
|--------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|

Matrix Spike (A505920-MS1), Source: A5E2070-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Diquat | 4.9 | 4.0 | ug/L | 4.0 | ND | 124 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|

Matrix Spike (A505920-MS2), Source: A5E2327-01

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Diquat | 5.1 | 4.0 | ug/L | 4.0 | ND | 126 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5E2342



05282015

Monte6227

Turnaround: Standard

Due Date: 6/11/2015



Monterey Bay Analytical





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

Temp: 0.0

A5E2342
 Monte6227

 05/28/2010
 Page 18 of 19

Company/Client Name: Monterey Bay Analytical Services
 Report Attention: Mason Weidner-Holland
 Additional cc's: David Holland
 City: Monterey
 State: CA
 Zip: 93940
 Invoice To: David Holland
 PO#: 831-375-6227
 Phone: 831-641-0734
 Fax: 831-641-0734
 E-mail: mweidner@mbasinc.com, dholland@mbasinc.com

Address: 4 Justin Court, Suite D
 Project: Cal Am
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 Sampler Name (Printed/Signature): Andrew Kieta
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water VW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Madera Co Tulare Co Fresno Co
 Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number: _____
 How would you like to receive your completed results?: E-Mail Fax Mail
 Geotracker #: _____

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX | Analysis | | | | | | | | | | |
|--|---------------------|----------|------|---------|---------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---|--|--|
| | | Date | Time | | | EPA 524 | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 | | | |
| MMW-8M (monitoring) | | 5/27/15 | 1238 | GW | AB31032 | X | X | X | X | X | X | X | X | X | | |
| <p>531 VOA broken in transit no sample received. New 5/27/15 11:03</p> | | | | | | | | | | | | | | | | |
| <p>Relinquished by: (Signature and Printed Name) D. Holland</p> | | | | | | | | | | | | | | | | |

Received for Lab by: (Signature and Printed Name) *[Signature]*
 Relinquished by: (Signature and Printed Name) *[Signature]*
 Date: 5/27/15 Time: 1600
 Received by: (Signature and Printed Name) *[Signature]*
 Date: 5/27/15 Time: 11:03
 Payment Received at Delivery: *[Signature]*

Shipping Method: NTRAC UPS GSO WALK-IN FED EX
 Cooling Method: Gel Blue None
 Custody Seal: *[Signature]*
 Chilling Process Begun: *[Signature]*
 Amount: _____ P/A#: _____
 Check / Int. / Cash

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK_Lab_Terms_Conditions.pdf

Sample Integrity

BSK Bottles: Yes No Page 1 of 1



| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | <u>Yes</u> No NA | | Were correct containers and preservatives received for the tests requested? | | <u>Yes</u> No NA | |
|---|---|--------------|--------------------|--|---|--------------|--------------------|--|
| | If samples were taken today, is there evidence that chilling has begun? | | Yes No <u>NA</u> | | Were there bubbles in the VOA vials? (Volatiles Only) | | Yes <u>No</u> NA | |
| | Did all bottles arrive unbroken and intact? | | <u>Yes</u> No | | Was a sufficient amount of sample received? | | <u>Yes</u> No | |
| | Did all bottle labels agree with COC? | | <u>Yes</u> No | | Do samples have a hold time <72 hours? | | Yes <u>No</u> | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | Yes No <u>NA</u> | | Was PM notified of discrepancies? PM: <u>John</u> By/Time: <u>mw 11:25</u> | | <u>Yes</u> No NA | |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | |
| | None (P) ^{White Cap} | — | — | | | | | |
| | Cr6 (P) ^{Br Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | Cl, pH > 8 | Y N | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y N | | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y N | | | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y N | | | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y N | | | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y N | | | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | | 2C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | | 1C | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | | | 2A4V | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) ^{Orange Label} 531 | pH < 3 | Y N | | | | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | | |
| | HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | — | — | | | 3V | | |
| | Buffer pH 4 (CG) | — | — | | | | | |
| | None (CG) | — | — | | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | |
| | Other: | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | |
| Low Level Hg / Metals Double Baggie | — | — | | | | | | |
| Bottled Water | — | — | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | | Container | Preservative | Date/Time/Initials | |
| | S P | | | | S P | | | |
| | S P | | | | S P | | | |
| Comments | <p>$\text{Na}_2\text{S}_2\text{O}_3$ + MCAA VOA broken in transit - No sample received. mw</p> | | | | | | | |

5/28/15
mw

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

June 10, 2015

Ceres ID: 10672

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on May 28, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

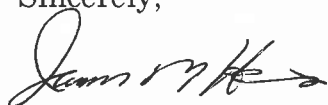
This work was authorized under M.B.A.'s Project # AB31032.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10672-001 | MW-8M (monitoring) | 5/28/2015 | 5/27/2015 12:38 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB31032 | | Sample Size: | 1.000 L | QC Batch #: | 1327 | Date Extracted: | 2-Jun-15 |
| | | | | | ZB-5 MS Analysis Date: | 5-Jun-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.15 | | | IS ¹³ C-2,3,7,8-TCDD | 101 | 31 - 137 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 103 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | | Reviewed by: | BS | | |

| | | | | | | | |
|--|-------------------------|---------------------------|-------------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | |
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB31032 | Sample Size: | 1.000 L | QC Batch #: | 1327 | Date Extracted: | 2-Jun-15 |
| | | | | ZB-5 MS Analysis Date: | 5-Jun-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 10.2 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 93.0 | 25-141 | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 9.92 | 3.7-15.8 | |
| | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-8M (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10672-001 | | Date Received: 28-May-15 |
| Project: AB31032 | | | Sample Size: 1.020 L | | QC Batch #: 1327 | | Date Extracted: 2-Jun-15 |
| Date Collected: 27-May-15 | | | | | ZB-5 MS Analysis Date: 5-Jun-15 | | |
| Time Collected: 12:38 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.30 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 82.1 | 31 - 137 |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 96.4 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: _____
 Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

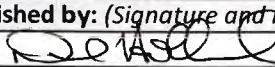
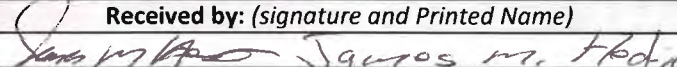
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|--|--|--|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: mweidner@mbasinc.com | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) ___ Results by 4/13/15 Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|-----------|--------------------|-----------|--------------------------------------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | Date | Time | Matrix | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 1 | MW-8M (monitoring) | 5/27/2015 | 1238 0:00 1238 | Aq | 1 | X | | | | | | AB31032 |
| 2 | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | Please include excel |
| 4 | | | | | | | | | | | | report |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|-----------|-------|---|---------|-------|
| D. Holland  | 5/27/2015 | 16:00 |  James M. Hoda | 5/27/15 | 09:39 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10672</u> | Date/Time: <u>5/28/15 09:39</u> |
| Client Project ID: <u>AB31032</u> | Received Temperature: <u>3.6°C</u> Acceptable: <u>Y</u> N |
| Chain of Custody Relinquished by signed? | <u>Y</u> / N |
| Custody Seals? Present? | Y / N |
| Intact? | Y / N |
| NA: | <u>NA</u> |
| Unlabeled / Illegible Samples | Y / <u>N</u> |
| Proper Containers: | <u>Y</u> N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <u>Y</u> N |
| Drinking Water, Sodium Thiosulfate present? | Y / N / <u>NA</u> |
| List COC discrepancies: | |
| 5/28/15 | |
| List Damaged Samples: | |
| 5/28/15 | |

Ceres ID: 10672 PB: 1327 Sample #: 1 Due Date: 6/11/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
 Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions

- 1 Calibrate balance
- 2 Tare balance
- 3 Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
- 4 Weigh empty bottle and cap. Record as Bottle Wt.
- 5 Calculate sample Volume (assuming 1g = 1ml) as follows

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10672-1 | 1544.99 | 525.30g | 1.020 L |
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Chemist J Date 6/2/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|-------------------|-------------------|----|-------------------|----|-------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1327-MB001 | Method Blank | | 1.000L | J 6/2/15 10:00 | J 6/3/15 10:00 | NA | J 6/3/15 | NA | J 6/3/15 10:00 |
| 0-1327-OPR001 | OPR | | 1.000L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10672-1327-001 | MW-8M (monitoring) | ✓ | 1.020L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
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Comments: (A) OPR spiked with NSS.

Soxhlet Start: 15:20 6/2/15
 Soxhlet Stop: 07:45 6/3/15

Samples Logged out by: J 6/2/15 11:10
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 16 11:40 6/3/15 J
 Extracts to Instrument: 6/5/15 07:40 J
 Extracts returned to Storage Location: 6/5/15 14:10 J

Method: 1613B
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|-------|-----------------|
| ISS | 5021115A | 10 μl | 2/10/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 20 μl | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|--------------------|----------|-----------|
| Toluene | 450 ml | 145871 | 4/3/16 |
| Hexanes | 30, 30, 100, 20 ml | 147232 | 4/3/16 |
| S: Gel | 4g | P060215A | 12/2/15 |
| Basic Gel | 4g | P021915A | 8/19/15 |
| Acid Gel | 8g | P060215B | 12/2/15 |
| Acid Al | 6g | P042015A | 10/20/15 |
| Na ₂ SO ₄ | 1.5g | P041515A | 10/15/15 |
| 20% DCM: Hex | 30 ml | L060115A | 12/1/15 |
| | | | |
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Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 06/15/15 14:26 |
| Attention: David Holland | Received Date: 05/28/15 10:20 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5E28075 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 05/28/15 10:20 with the Chain of Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|------------------------------|--------------|------------|--------|----------------|
| MW-8M (monitoring) (AB31032) | Andrew Kieta | 5E28075-01 | Water | 05/27/15 12:38 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

5E28075-01 MW-8M (monitoring)

Sampled: 05/27/15 12:38

Sampled By: Andrew Kieta

Matrix: Water

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5F0320

Prepared: 06/05/15 13:00

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 250 | ug/l | 25 | 06/05/15 15:44 | M-05 |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5F0011

Prepared: 06/01/15 09:00

Analyst: Paolo Lorenzo A Ramirez

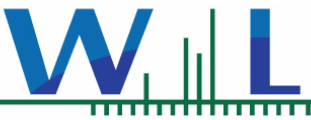
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 06/10/15 06:50 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 06/10/15 06:50 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Endrin | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 06/10/15 06:50 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 06/10/15 06:50 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 06/10/15 06:50 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 06/10/15 06:50 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 06/10/15 06:50 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 06/10/15 06:50 | |
| Surr: Decachlorobiphenyl | 72 % | Conc:0.0720 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 99 % | Conc:0.0992 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

Anions by IC, EPA Method 9056 - Quality Control

Batch W5F0320 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5F0320-BLK1) | | | | Analyzed: 06/05/15 13:51 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5F0320-BS1) | | | | Analyzed: 06/05/15 14:21 | | | | | | |
| Iodide | 41.2 | 10 | ug/l | 40.0 | | 103 | 85-115 | | | |
| Matrix Spike (W5F0320-MS1) | | | | Source: 5F03038-01 | | Analyzed: 06/05/15 16:29 | | | | |
| Iodide | 46.2 | 12 | ug/l | 50.0 | 2.55 | 87 | 80-120 | | | |
| Matrix Spike Dup (W5F0320-MSD1) | | | | Source: 5F03038-01 | | Analyzed: 06/05/15 17:03 | | | | |
| Iodide | 48.5 | 12 | ug/l | 50.0 | 2.55 | 92 | 80-120 | 5 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5F0011 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5F0011-BLK1) | | | | Analyzed: 06/10/15 04:48 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5F0011 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5F0011-BLK1) | | | | | | | | | | |
| Analyzed: 06/10/15 04:48 | | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.109 | | ug/l | 0.100 | | 109 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0977 | | ug/l | 0.100 | | 98 | 70-130 | | | |
| LCS (W5F0011-BS1) | | | | | | | | | | |
| Analyzed: 06/10/15 05:18 | | | | | | | | | | |
| 4,4'-DDD | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 55-142 | | | |
| 4,4'-DDE | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 49-129 | | | |
| 4,4'-DDT | 0.120 | 0.010 | ug/l | 0.100 | | 120 | 54-160 | | | |
| Aldrin | 0.0959 | 0.010 | ug/l | 0.100 | | 96 | 29-115 | | | |
| alpha-BHC | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 59-131 | | | |
| beta-BHC | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 63-136 | | | |
| delta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 59-137 | | | |
| Dieldrin | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 59-135 | | | |
| Endosulfan I | 0.0826 | 0.010 | ug/l | 0.100 | | 83 | 28-138 | | | |
| Endosulfan II | 0.0887 | 0.010 | ug/l | 0.100 | | 89 | 53-133 | | | |
| Endosulfan sulfate | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 58-155 | | | |
| Endrin | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 57-148 | | | |
| Endrin aldehyde | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-129 | | | |
| Heptachlor | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 42-136 | | | |
| Heptachlor epoxide | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 59-134 | | | |
| Methoxychlor | 0.0903 | 0.010 | ug/l | 0.100 | | 90 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.115 | | ug/l | 0.100 | | 115 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.102 | | ug/l | 0.100 | | 102 | 70-130 | | | |
| LCS Dup (W5F0011-BSD1) | | | | | | | | | | |
| Analyzed: 06/10/15 05:49 | | | | | | | | | | |
| 4,4'-DDD | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 55-142 | 4 | 25 | |
| 4,4'-DDE | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 49-129 | 5 | 25 | |
| 4,4'-DDT | 0.125 | 0.010 | ug/l | 0.100 | | 125 | 54-160 | 4 | 25 | |
| Aldrin | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 29-115 | 8 | 25 | |
| alpha-BHC | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 59-131 | 8 | 25 | |
| beta-BHC | 0.128 | 0.010 | ug/l | 0.100 | | 128 | 63-136 | 6 | 25 | |
| delta-BHC | 0.130 | 0.010 | ug/l | 0.100 | | 130 | 59-137 | 5 | 25 | |
| Dieldrin | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 59-135 | 6 | 25 | |
| Endosulfan I | 0.0872 | 0.010 | ug/l | 0.100 | | 87 | 28-138 | 5 | 25 | |
| Endosulfan II | 0.0937 | 0.010 | ug/l | 0.100 | | 94 | 53-133 | 5 | 25 | |
| Endosulfan sulfate | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 58-155 | 11 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5F0011 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------------|-------|-------------|--------------------------|---------------|------------|---------------|-----|-----------|-----------------|
| LCS Dup (W5F0011-BSD1) | | | | Analyzed: 06/10/15 05:49 | | | | | | |
| Endrin | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 57-148 | 4 | 25 | |
| Endrin aldehyde | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 45-139 | 0.9 | 25 | |
| gamma-BHC (Lindane) | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 59-129 | 7 | 25 | |
| Heptachlor | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 42-136 | 8 | 25 | |
| Heptachlor epoxide | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-134 | 6 | 25 | |
| Methoxychlor | 0.110 | 0.010 | ug/l | 0.100 | | 110 | 56-167 | 20 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.119</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>119</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.106</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>106</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/28/15 10:20
Date Reported: 06/15/15 14:26

Notes and Definitions

| | |
|--------------|---|
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | |
|---------------------------------|------------------------------------|--|---|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance |
| | | | MBAS Project Manager: David Holland Dissolved metals sample was filtered in the field using 0.45 um filter |

| | | | |
|--|---|----------------------|--|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com, susan.jacobson@amwater.com, nreynolds@geoscience-water.com, bvillalobos@geoscience-water.com | | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 | |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|---|----------|-------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|-------------------|------------------------------------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 31032 | | MW-8M | 5/27 | 12:38 | | | | | | | 21 | | | |
| | | | | | | | | | | | | | Field Parameters: | |
| | | | | | | | | | | | | | Temp: | 17.17 |
| | | | | | | | | | | | | | pH: | 6.67 |
| | | | | | | | | | | | | | Sp Cond: | 35.04 mc/l (35.04 mg/l) |
| | | | | | | | | | | | | | Turb: | 0.56 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|----------------|-----------|---------|-------|---|
| Sampled by: | Andrew Kieta | | 5/27 | 14:11 | Is sample for regulatory purposes? Yes / No (Yes) |
| Relinquished by: | | | | | |
| Received by: | Sarah McGinnis | | 5/27/15 | 14:13 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

**Table 3-3. Water Quality Analyses for Quarterly Sampling
Monitoring Wells and Test Slant Well**

| Constituent | Units | Method Reporting Limit | Method |
|--|-------------|------------------------|----------------------------|
| Physical Properties | | | |
| Color (Lab) | Color Units | 3.0 | SM 2120B/EPA 110.2 |
| Oxidation-Reduction Potential (Field) | mV | - | Field Meter - Myron L 6PII |
| pH (Lab) | Units | 0.10 | SM 4500 H+B |
| pH (Field) | Units | - | Field Meter - YSI Pro Plus |
| Turbidity (Laboratory) | NTU | 0.20 | EPA 180.1/SM 2130B |
| Turbidity (Field) | NTU | - | Field Meter - Hach 2100P |
| Temperature (Field) | °C | - | Field Meter - YSI Pro Plus |
| Dissolved Oxygen (Field) | mg/L | - | Field Meter - YSI Pro Plus |
| Silt Density Index (Field) | - | - | ASTM D4189-07 |
| Threshold Odor Number (Lab) | T.O.N. | 1.0 | EPA 140.1/SM 2150 |
| Total Dissolved Solids (Lab) | mg/L | 10 | SM 2540 C |
| Specific Conductance (Lab) | µmhos/cm | 1 | SM 2510 B |
| Specific Conductance (Field) | µS/cm | - | Field Meter - YSI Pro Plus |
| General Minerals | | | |
| Total Cations | meq/L | - | Calculation |
| Total Anions | meq/L | - | Calculation |
| Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Bicarbonate Alkalinity as HCO ₃ | mg/L | 3 | SM 2320 B |
| Carbonate Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Hydroxide Alkalinity as CaCO ₃ | mg/L | 3 | SM 2320 B |
| Total Hardness as CaCO ₃ | mg/L | 3 | Calculation |
| Aluminum | µg/L | 1 | EPA 200.7 |
| Arsenic | µg/L | 1 | EPA 200.7 / EPA 200.8 |
| Barium, Dissolved | µg/L | 0.01 | EPA 200.7 |
| Boron, Dissolved | µg/L | 0.5 | EPA 200.8 |
| Bromide, Dissolved | mg/L | 0.1 | EPA 326.0 |
| Calcium, Dissolved | mg/L | 1 | EPA 200.7 |
| Chloride, Dissolved | mg/L | 1 | EPA 300.0 |
| Copper, Total | µg/L | 50 | EPA 200.7 |
| Fluoride, Dissolved | mg/L | 0.10 | EPA 300.0 / SM 4500 FC |
| Iodide, Dissolved | mg/L | 0.1 | USGS I-2371 / EPA 9056A |
| Iron, Dissolved | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Iron, Total | µg/L | 100 | EPA 200.7 / EPA 200.8 |
| Lithium | µg/L | 10 | EPA 200.7 / EPA 6010B |
| Magnesium, Dissolved | mg/L | 1 | EPA 200.7 |

| Constituent | Units | Method Reporting Limit | Method |
|---|-----------|------------------------|---------------------------------------|
| Manganese, Dissolved | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Manganese, Total | µg/L | 20 | EPA 200.7 / EPA 200.8 |
| Mass Balance, Total & Dissolved | meq/L | - | Calculation |
| MBAS | mg/L | 0.050 | SM 5540 C / EPA 200.8 |
| Nitrogen, Nitrate as NO ₃ | mg/L | 1 | EPA 353.2 / EPA 300.0 |
| Nitrogen, Nitrite, Dissolved | mg/L as N | 1 | SM 4500 NO ₂ B |
| Nitrogen, NO ₂ + NO ₃ | mg/L as N | 1 | EPA 300.0 |
| Nitrogen, Ammonia, Dissolved | mg/L as N | 0.1 | SM 4500 NH ₃ H / EPA 350.1 |
| Nitrogen, Ammonia + Organic, Diss. (TKN) | mg/L as N | 0.1 | EPA 351.2 |
| Phosphorus, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Phosphorus, ortho, Dissolved | mg/L as P | 0.01 | EPA 365.3 |
| Potassium, Dissolved | mg/L | 1 | EPA 200.7 |
| Silica, Dissolved | mg/L | 1 | SM 4500 SiE |
| Sodium, Dissolved | mg/L | 1 | EPA 200.7 |
| Strontium, Dissolved | mg/L | 0.1 | EPA 200.7 / EPA 200.8 |
| Sulfate as SO ₄ , dissolved | mg/L | 0.5 | EPA 300.0 |
| Zinc, Total | µg/L | 50 | EPA 200.7 |
| Volatile Organic Compounds | | | |
| VOCs plus Oxygenates (MTBE) | µg/L | varies | EPA 524.2 |
| EPA Organic Methods | | | |
| EDB and DBCP | µg/L | varies | EPA 504.1 |
| Chlorinated Pesticides & PCB's as DCP | µg/L | varies | EPA 508 |
| Chlorinated Acid Herbicides | µg/L | varies | EPA 515 |
| Nitrogen & Phosphorus Pesticides DEHP, DEHA, Benzo(a)Pyrene | µg/L | varies | EPA 525 |
| Carbamates | µg/L | varies | EPA 531.1 |
| Glyphosate | µg/L | varies | EPA 547 |
| Endothall | µg/L | varies | EPA 548.1 |
| Diquat | µg/L | varies | EPA 549.1 |
| Dioxin (2,3,7,8 TCDD) | µg/L | varies | EPA 1613 |

Total and dissolved iron and manganese will be measured by field filtering samples directly into an acidified container immediately upon collection. A second sample will be collected directly into an acidified container without filtering. This method will provide a reliable and accurate means to determine the amount of dissolved and particulate iron and manganese, which has implications for desalting plant design.

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES
 YES
 YES

NO
NO
NO

NA
NA
NA

<2 Hr

Is there evidence of chilling?

YES NO NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|-------------|------------|--------------------------------|---------------|
| 31022-31032 | 250ml | HNO ₃ | 5/27/15 Sm |
| | 250ml Fil | HNO ₃ | ↓ |
| | 500ml Fil | H ₂ SO ₄ | |
| | 250ml Fil | H ₂ SO ₄ | |
| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

Comments



California American Water
P.O. Box 951, Monterey, CA 93942-0951
ph: 831-646-3259 / 831-646-3269
Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS

www.MBASinc.com

ELAP Certification Number: 2385

Page 1 of 2

Friday, June 12, 2015

Lab Number: AB30918

Collection Date/Time: 5/21/2015 11:05 Sample Collector: SALMON M

Submittal Date/Time: 5/21/2015 14:13 Sample ID

Sample Description: MW-8D (monitoring)

| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|---------------|-------------|--------------|------|------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 152 | | 2 | 5/27/2015 | LJ |
| Aluminum, Total | EPA200.8 | µg/L | 37 | | 10 | 5/28/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 5/26/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 1 | | 1 | 5/28/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 88 | | 10 | 5/28/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 185 | | 10 | 5/27/2015 | LRH |
| Boron, Dissolved | EPA200.7 | mg/L | 0.05 | | 0.05 | 5/22/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 0.6 | | 0.1 | 5/21/2015 | MW |
| Calcium | EPA200.7 | mg/L | 64 | | 0.5 | 5/22/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 59 | | 0.5 | 5/22/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 5/28/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 5/27/2015 | LRH |
| Chloride, Dissolved | EPA300.0 | mg/L | 220 | | 1 | 5/21/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 6/6/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 11 | | 3 | 5/21/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 10 | 5/22/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 5/29/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 5/27/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 5/29/2015 | BSK |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 5/28/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.3 | | 0.1 | 5/21/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 6/1/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 263 | | 10 | 5/26/2015 | MW |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 5/27/2015 | LRH |
| Iodide | EPA9056M | µg/L | Not Detected | E | 10 | 5/29/2015 | WECK |
| Iron | EPA200.7 | µg/L | 81 | | 10 | 5/22/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | 15 | | 10 | 5/22/2015 | MW |
| Kjeldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 5/28/2015 | TC |
| Lithium | EPA200.8 | µg/L | 49 | | 1 | 5/28/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 25 | | 0.5 | 5/22/2015 | MW |
| Magnesium, Dissolved | EPA200.7 | mg/L | 23 | | 0.5 | 5/22/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 283 | | 10 | 5/22/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 310 | | 10 | 5/22/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 5/22/2015 | HM |

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL

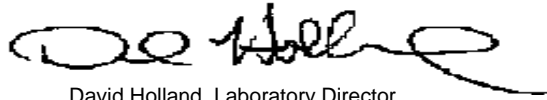
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|------------------------------------|-------------|----------|---------------------|------|-----------|-----|
| Nitrate as NO3 | EPA300.0 | mg/L | 2 | 1 | 5/21/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 0.7 | 0.1 | 5/21/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.3 | 0.1 | 5/21/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 1 | 1 | 5/22/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.06 | 0.03 | 5/22/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.33 | | 5/21/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.6 | 0.1 | 5/21/2015 | HM |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 5/29/2015 | BSK |
| Phosphorus, Dissolved Total | HACH 8190 | mg/L | 0.06 | 0.03 | 6/4/2015 | LRH |
| Potassium | EPA200.7 | mg/L | 5.1 | 0.5 | 5/22/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 4.6 | 0.5 | 5/22/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.56 | | 5/28/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 6/1/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 45 | 0.5 | 5/22/2015 | MW |
| Sodium | EPA200.7 | mg/L | 148 | 0.5 | 5/22/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 135 | 0.5 | 5/22/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 1045 | 1 | 5/22/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 1113 | 1 | 5/21/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 470 | 5 | 5/28/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 32 | 1 | 5/21/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 21.2 | | 5/21/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 583 | 10 | 5/26/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.55 | 0.05 | 5/21/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 2.48 | 0.05 | 5/21/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | 5/31/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | 10 | 5/22/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **30918-Total**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 148 | 0.04350 | 6.44 |
| Potassium | 5.1 | 0.02558 | 0.13 |
| Calcium | 64 | 0.04990 | 3.19 |
| Magnesium | 25 | 0.08229 | 2.06 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 11.82 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 152 | 0.02000 | 3.04 |
| Sulfate | 32 | 0.02082 | 0.67 |
| Chloride | 220 | 0.02821 | 6.21 |
| Nitrate-Nitrogen | 0.4 | 0.07138 | 0.03 |
| Phosphate-P | 0.09 | 0.01031 | 0.00 |
| Bromide | 0.6 | 0.01252 | 0.01 |
| | | SUM | 9.95 |

ANION-CATION BALANCE **9** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 1045 | |
| Cation Sum X 100 | 1182 | 113% |
| Anion Sum X 100 | 995 | 95% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID **30918-Dissolved**

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 135 | 0.04350 | 5.87 |
| Potassium | 4.6 | 0.02558 | 0.12 |
| Calcium | 59 | 0.04990 | 2.94 |
| Magnesium | 23 | 0.08229 | 1.89 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 10.83 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 152 | 0.02000 | 3.04 |
| Sulfate | 32 | 0.02082 | 0.67 |
| Chloride | 220 | 0.02821 | 6.21 |
| Nitrate-Nitrogen | 0.4 | 0.07138 | 0.03 |
| Phosphate-P | 0.09 | 0.01031 | 0.00 |
| Bromide | 0.6 | 0.01252 | 0.01 |
| | | SUM | 9.95 |

ANION-CATION BALANCE **4** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|-------------|
| Conductivity | 1045 | |
| Cation Sum X 100 | 1083 | 104% |
| Anion Sum X 100 | 995 | 95% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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Color QC Summary (SM 2120B)

Date Analyzed: 5/21/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 16:03 |
| ICV | 5 | 6 | 120.0 | 80-120 | 16:03 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|-------|
| AB30911 | Not Detected | Not Detected | NA | 10 | 16:03 |
| AB30918 | 11 | 11 | 0 | 10 | 16:03 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 5/22/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|--------|-----------------------------|------|
| ICV | 1412 | 1412 | 100.0% | 95-105 | 1330 |
| ICV | 24800 | 24880 | 100.3% | 95-105 | 1340 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB30939 | 405 | 403 | 0.5% | 10 | 1330 |
| AB30940 | 38810 | 38990 | 0.5% | 10 | 1340 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample

AB31032

20x Dilution

Date Analyzed

Thursday, May 28, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|-------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.1 | 96.5 | -0.06 | 107.7 | 103.6 | 3.83 | 132.3 | 500 | 73.4 | 70.1 | 4.7 | 94.6 | 74.7 | 23.47 | 0.03 |
| Aluminum | -0.1 | 108.9 | 1.33 | 105.4 | 105.9 | 0.52 | 291.5 | 500 | 65.7 | 66.9 | 1.9 | 98.2 | 87.8 | 11.18 | -0.26 |
| Copper | 0.0 | 98.7 | 0.16 | 102.5 | 100.1 | 2.29 | 87.8 | 500 | 84.5 | 85.7 | 1.4 | 98.3 | 98.1 | 0.24 | 0.08 |
| Zinc | 0.0 | 134.6 | 0.42 | 109.2 | 106.0 | 2.96 | 647.9 | 500 | 33.5 | 34.2 | 1.9 | 96.5 | 89.6 | 7.40 | -0.31 |
| Arsenic | 0.0 | 99.0 | -0.33 | 100.4 | 96.8 | 3.67 | 28.1 | 500 | 90.0 | 89.6 | 0.5 | 101.2 | 95.3 | 6.06 | -0.13 |
| Strontium | 0.0 | 101.9 | 0.01 | 99.9 | 98.7 | 1.23 | 8278.8 | 500 | -2.9 | 28.6 | 244.3 | 98.0 | 100.4 | 2.36 | 0.00 |
| Barium | 0.0 | 101.8 | 0.01 | 99.3 | 99.9 | 0.60 | 153.1 | 500 | 97.1 | 99.4 | 2.4 | 99.5 | 105.7 | 6.05 | 0.00 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 5/26/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.03 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.490 | 98.00% | 90-110 | 1100 |
| CCVB2 | --- | 0.02 | --- | <0.05 | 1200 |
| CCV2 | 0.500 | 0.460 | 92.00% | 90-110 | 1200 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptanc e Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|------------------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB30965 | 1.17 | 0.50 | 1.66 | 1.71 | 98 | 108 | 3.0 | 85-120 | 10 | 1130 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 5/28/2015

Time: 1600

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.213 | --- | <0.5 |
| LCS | 5.0 | 4.9 | 98 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB30913 | 1.2 | 5.0 | 5.9 | 5.8 | 94 | 92 | 1.7 | 85-120 | 10 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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Phosphorus QC Summary (Hach 8190)

Date: 6/4/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | ND | --- | < 0.03 | 1623 |
| LCSL | 0.03 | 0.04 | 133 | 50-150 | 1625 |
| ICV | 0.50 | 0.51 | 102 | 90-110 | 1631 |
| QCS | 0.50 | 0.51 | 102 | 80-120 | 1633 |
| CCV | 0.50 | 0.52 | 104 | 80-120 | 1715 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB30921 D | 0.13 | 0.50 | 0.63 | 0.61 | 100 | 96 | 3.2 | 70-130 | 10 | 1713 | 1714 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCSL = Laboratory Control Standard Low; QCS = Quality Control Standard;

ICV= Initial Calibration Verification, CCV= Continuing Calibration Verification, RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 5/22/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.03 | --- | < 0.03 | 13:57 |
| LCSL | 0.03 | 0.03 | 100 | 50-150 | 13:57 |
| ICV | 0.30 | 0.30 | 100 | 90-110 | 13:57 |
| QCS | 0.30 | 0.33 | 110 | 80-120 | 13:57 |
| CCV | 0.30 | 0.30 | 100 | 90-110 | 13:57 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB30920 | 0.23 | 0.30 | 0.54 | 0.53 | 103 | 100 | 2 | 70-130 | 10 | 13:57 | 13:57 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 5/21/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.86 | 6.87 | 100.1 | 95-105 | 1625 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB30921 | 7.63 | 7.64 | 0 | 10 | 1625 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150522

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCS | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|-------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.00 | 0.01 | 1.08 | 108.1% | 1.08 | 107.8% | 0.4% | 1 | 1.03 | 103.3% | 1 | 1.0 | 96.3% |
| B 249.772 | 0.05-5ppm | 0.00 | 0.01 | 1.08 | 107.6% | 1.08 | 107.9% | 0.2% | 1 | 1.02 | 101.5% | 1 | 1.0 | 95.7% |
| Ca 317.933 | 50-300ppm | -7.22 | -7.26 | 51.1 | 102.3% | 51.4 | 102.8% | 0.5% | 50 | 48.7 | 97.5% | 50 | 45.9 | 91.8% |
| Ca 396.847 | 0.5-50ppm | -0.01 | -0.05 | 53.4 | 106.7% | 53.4 | 106.7% | 0.0% | 50 | 51.0 | 102.0% | 50 | 48.1 | 96.2% |
| Cu 324.754 | 10ppb-100ppm | -2.72 | -0.27 | 1073 | 107.3% | 1079 | 107.9% | 0.6% | 1000 | 1018 | 101.8% | 1000 | 972.1 | 97.2% |
| Cu 327.395 | 10ppb-100ppm | 0.40 | 0.89 | 1074 | 107.4% | 1078 | 107.8% | 0.4% | 1000 | 1007 | 100.7% | 1000 | 966.1 | 96.6% |
| Fe 238.204 | 10ppb-100ppm | 0.73 | 0.56 | 1047 | 104.7% | 1050 | 105.0% | 0.3% | 1000 | 1002 | 100.2% | 1000 | 980.2 | 98.0% |
| Fe 259.940 | 10ppb-100ppm | 1.17 | -0.11 | 1048 | 104.8% | 1054 | 105.4% | 0.6% | 1000 | 998 | 99.8% | 1000 | 974.2 | 97.4% |
| K 766.491 | 0.5-750ppm | -0.08 | -0.11 | 10.8 | 108.1% | 10.8 | 108.2% | 0.1% | 10 | 10.3 | 102.8% | 10 | 9.8 | 98.3% |
| Mg 202.582 | 50-1000ppm | -6.63 | -6.65 | 51.6 | 103.2% | 52.0 | 103.9% | 0.7% | 50 | 48.8 | 97.6% | 50 | 47.0 | 94.1% |
| Mg 279.078 | 0.5-50ppm | 0.01 | -0.02 | 52.7 | 105.5% | 52.9 | 105.8% | 0.3% | 50 | 50.3 | 100.6% | 50 | 48.4 | 96.8% |
| Mn 257.610 | 10ppb-11ppm | -0.01 | 0.06 | 1053 | 105.3% | 1056 | 105.6% | 0.2% | 1000 | 1002 | 100.2% | 1000 | 979.8 | 98.0% |
| Mn 260.568 | 10ppb-11ppm | -0.01 | 0.68 | 1054 | 105.4% | 1054 | 105.4% | 0.1% | 1000 | 1007 | 100.7% | 1000 | 980.5 | 98.1% |
| Na 568.821 | 50-1000ppm | -0.45 | -0.52 | 48.4 | 96.8% | 50.9 | 101.9% | 5.1% | 50 | 46.3 | 92.7% | 50 | 45.0 | 90.0% |
| Na 589.592 | 0.5-50ppm | 0.15 | 0.11 | 53.0 | 106.1% | 53.2 | 106.5% | 0.3% | 50 | 50.3 | 100.5% | 50 | 48.4 | 96.9% |
| Si 251.611 | 0.5-200ppm | 0.04 | 0.04 | 51.8 | 103.7% | 51.8 | 103.7% | 0.0% | 50 | 50.0 | 100.1% | 50 | 48.8 | 97.7% |
| Si 252.411 | 0.5-200ppm | 0.05 | 0.06 | 52.1 | 104.1% | 51.9 | 103.7% | 0.4% | 50 | 50.5 | 100.9% | 50 | 49.2 | 98.4% |
| Zn 213.857 | 10ppb-50ppm | -3.79 | -4.88 | 1013 | 101.3% | 1007 | 100.7% | 0.6% | 1000 | 994 | 99.4% | 1000 | 944.6 | 94.5% |

Sample ID AB30909

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|-------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.02 | 1.00 | 98.3% | 1.01 | 99.1% | 0.8% | 1 | 1.05 | 104.7% | 1.3% | 0.00 |
| B 249.772 | 0.01 | 1.01 | 99.7% | 1.03 | 101.7% | 2.0% | 1 | 1.06 | 105.9% | 4.3% | 0.00 |
| Ca 317.933 | 150.7 | 200.7 | 100.0% | 200.6 | 100.0% | 0.0% | 50 | 51.6 | 103.2% | 5.7% | -7.12 |
| Ca 396.847 | 121.2 | 153.3 | 64.3% | 154.2 | 66.0% | 0.6% | 50 | 52.8 | 105.5% | 3.4% | 0.09 |
| Cu 324.754 | -6 | 978 | 98.4% | 991 | 99.7% | 1.3% | 1000 | 1056 | 105.6% | 3.7% | 0.33 |
| Cu 327.395 | 1 | 993 | 99.2% | 1003 | 100.2% | 1.0% | 1000 | 1061 | 106.1% | 5.2% | 1.42 |
| Fe 238.204 | 38 | 1022 | 98.4% | 1033 | 99.5% | 1.0% | 1000 | 1046 | 104.6% | 4.3% | 2.82 |
| Fe 259.940 | 40 | 1020 | 98.1% | 1036 | 99.6% | 1.5% | 1000 | 1046 | 104.6% | 4.7% | 3.20 |
| K 766.491 | 4.4 | 15.0 | 106.5% | 14.9 | 105.0% | 1.0% | 10 | 10.8 | 107.9% | 4.9% | -0.09 |
| Mg 202.582 | 57.5 | 110.4 | 105.8% | 111.4 | 107.8% | 0.9% | 50 | 51.8 | 103.7% | 6.0% | -6.51 |
| Mg 279.078 | 56.9 | 104.6 | 95.4% | 105.6 | 97.4% | 1.0% | 50 | 52.2 | 104.4% | 3.8% | 0.08 |
| Mn 257.610 | 22 | 1011 | 98.9% | 1021 | 99.9% | 1.0% | 1000 | 1051 | 105.1% | 4.7% | 2.20 |
| Mn 260.568 | 25 | 1020 | 99.5% | 1033 | 100.8% | 1.3% | 1000 | 1057 | 105.7% | 4.8% | 1.75 |
| Na 568.821 | 131.7 | 182.3 | 101.2% | 185.8 | 108.3% | 1.9% | 50 | 51.2 | 102.4% | 10.0% | -1.81 |
| Na 589.592 | 124.8 | 173.4 | 97.1% | 172.2 | 94.9% | 0.7% | 50 | 53.2 | 106.5% | 5.8% | 0.50 |
| Si 251.611 | 39.3 | 87.2 | 95.9% | 87.9 | 97.3% | 0.8% | 50 | 52.5 | 105.0% | 4.8% | 0.11 |
| Si 252.411 | 39.0 | 86.6 | 95.3% | 87.3 | 96.6% | 0.7% | 50 | 52.0 | 104.0% | 3.0% | 0.09 |
| Zn 213.857 | -4 | 961 | 96.5% | 961 | 96.6% | 0.0% | 1000 | 1049 | 104.9% | 5% | -2.68 |



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 5/27/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|-----------------|------------------|-------|--------------------------|-------|
| ICV | 40 | 42 | 105 | 95-105 | 9:01 |
| CCV | 40 | 41 | 103 | 95-105 | 10:38 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|-------|
| AB30909 | 56 | 56 | 0 | 5 | 10:38 |
| AB30904 | 108 | 110 | 2 | 5 | 11:32 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery

4 Justin Court Ste D, Monterey, CA 93940

831.375.MBAS (6227), 831.641.0734 (Fax)

MontereyBayAnalytical@usa.net

<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID:

20150521

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.04 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 |
| ICV | 1.95 | 20.26 | 2.05 | 20.32 | 1.84 | 1.92 |
| Rec 90-110% | 97.51 | 101.31 | 102.61 | 101.58 | 92.03 | 96.05 |
| ICVL | 0.19 | 1.81 | 0.20 | 1.14 | 0.23 | 0.21 |
| Rec 50-150% | 95.07 | 90.61 | 99.02 | 56.76 | 113.13 | 105.93 |
| Sample ID AB30916 | 0.18 | 113.58 | 0.22 | 39.98 | 0.09 | 13.72 |
| MS | 2.04 | 133.18 | 2.13 | 57.90 | 1.78 | 15.31 |
| Rec 80-120% | 92.59 | 97.99 | 95.43 | 89.61 | 84.35 | 79.74 |
| MSD | 2.03 | 133.31 | 2.13 | 57.90 | 1.78 | 15.32 |
| Rec 80-120% | 92.46 | 98.66 | 95.67 | 89.59 | 84.74 | 80.36 |
| Diff 10% | 0.13 | 0.10 | 0.22 | 0.01 | 0.44 | 0.08 |
| CCV | 1.94 | 20.34 | 2.06 | 20.33 | 1.85 | 1.92 |
| Rec 90-110% | 96.79 | 101.69 | 103.12 | 101.63 | 92.71 | 96.24 |
| Diff 10% | 0.74 | 0.37 | 0.49 | 0.05 | 0.73 | 0.19 |
| CCVB | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 |



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

MBAS QC Summary (SM 5540C)

Date Analyzed: 5/23/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0 | --- | <0.05 | 818 |
| ICVL | 0.050 | 0.057 | 114 | 80-120 | 830 |
| ICV | 0.250 | 0.233 | 93.2 | 80-120 | 1051 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB30921 | 0 | 0.250 | 0.235 | 0.234 | 94 | 93.6 | 0.4 | 80/120 | 10 | 1015 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

TDS QC Summary (SM 2540C)

Date Analyzed: 5/21/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 0 | --- | <10 | 1330 |
| ICVL | 100 | 86 | 86 | 80-120 | 1330 |
| ICV | 500 | 471 | 94.2 | 90-110 | 1330 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB30911 | 2452 | 2540 | 3.5 | 10 | 1330 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5E1979

6/04/2015

Invoice: A511460

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5E1979 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 5/22/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|---|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: Cal Am Received: 5/22/2015 - 10:00 Report Due: 6/08/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|---|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 2.4 | Containers Intact COC/Labels Agree Preservation Confirmed Received On Wet Ice Received On Blue Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- CV0.0 CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5E1979-01

Sampled By: Matan Salmon

Sample Description: MW-8D (monitoring) // AB30918

Sample Date - Time: 05/21/15 - 11:05

Matrix: Ground Water

Sample Type: Grab

BSK Associates Fresno

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A505817 | 05/27/15 | 05/29/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A505817 | 05/27/15 | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 97 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A505873 | 05/28/15 | 05/29/15 | |
| Surrogate: DCPAA | EPA 515.3 | 104 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |

Certificate of Analysis

Sample ID: A5E1979-01

Sampled By: Matan Salmon

Sample Description: MW-8D (monitoring) // AB30918

Sample Date - Time: 05/21/15 - 11:05

Matrix: Ground Water

Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Toluene | EPA 524.2 | 8.8 | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A505976 | 05/31/15 | 05/31/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 94 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 96 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5E1979-01
Sampled By: Matan Salmon
Sample Description: MW-8D (monitoring) // AB30918

Sample Date - Time: 05/21/15 - 11:05
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A505971 | 05/29/15 | 06/01/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 97 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A505859 | 05/27/15 | 05/28/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A505989 | 06/01/15 | 06/01/15 | |
| Surrogate: AMPA | EPA 547 | 98 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A505858 | 05/27/15 | 05/28/15 | BS1.0 |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A505793 | 05/26/15 | 05/29/15 | CV0.0 |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A505817

Prepared: 05/27/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A505817-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 05/29/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.49 | | | 0.46 | | 107 | 70-130 | | | 05/29/15 | |

Blank Spike (A505817-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 95 | 70-130 | | | 05/29/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 89 | 70-130 | | | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.46 | | 95 | 70-130 | | | 05/29/15 | |

Blank Spike Dup (A505817-bsd1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | | 101 | 70-130 | 5 | 20 | 05/29/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | | 96 | 70-130 | 7 | 20 | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.46 | | 96 | 70-130 | | | 05/29/15 | |

Matrix Spike (A505817-MS1), Source: A5E2012-16

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 99 | 65-135 | | | 05/29/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | ND | 95 | 65-135 | | | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.46 | | 96 | 70-130 | | | 05/29/15 | |

Matrix Spike Dup (A505817-MSD1), Source: A5E2012-16

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 98 | 65-135 | 1 | 20 | 05/29/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | ND | 94 | 65-135 | 1 | 20 | 05/29/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 101 | 70-130 | | | 05/29/15 | |

EPA 515.3 - Quality Control

Batch: A505873

Prepared: 05/28/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A505873-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 05/28/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 05/28/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 05/28/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 05/28/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 05/28/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 05/28/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 05/28/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 05/28/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 05/28/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 05/28/15 | |

Blank Spike (A505873-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.2 | 1.0 | ug/L | 4.0 | | 105 | 70-130 | | | 05/28/15 | |
| 2,4,5-TP (Silvex) | 0.88 | 1.0 | ug/L | 0.80 | | 110 | 70-130 | | | 05/28/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | | 106 | 70-130 | | | 05/28/15 | |
| Bentazon | 7.9 | 2.0 | ug/L | 8.0 | | 98 | 70-130 | | | 05/28/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A505873

Prepared: 05/28/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A505873-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.0 | 10 | ug/L | 4.0 | | 101 | 70-130 | | | 05/28/15 | |
| Dicamba | 6.2 | 1.5 | ug/L | 6.0 | | 104 | 70-130 | | | 05/28/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | | 101 | 70-130 | | | 05/28/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 94 | 70-130 | | | 05/28/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | | 102 | 70-130 | | | 05/28/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 05/28/15 | |

Blank Spike Dup (A505873-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.2 | 1.0 | ug/L | 4.0 | | 105 | 70-130 | 0 | 20 | 05/29/15 | |
| 2,4,5-TP (Silvex) | 0.86 | 1.0 | ug/L | 0.80 | | 107 | 70-130 | 3 | 20 | 05/29/15 | |
| 2,4-D | 0.42 | 10 | ug/L | 0.40 | | 105 | 70-130 | 1 | 20 | 05/29/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | | 96 | 70-130 | 2 | 20 | 05/29/15 | |
| Dalapon | 3.9 | 10 | ug/L | 4.0 | | 98 | 70-130 | 3 | 20 | 05/29/15 | |
| Dicamba | 6.1 | 1.5 | ug/L | 6.0 | | 102 | 70-130 | 2 | 20 | 05/29/15 | |
| Dinoseb | 0.80 | 2.0 | ug/L | 0.80 | | 100 | 70-130 | 0 | 20 | 05/29/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | | 94 | 70-130 | 1 | 20 | 05/29/15 | |
| Picloram | 0.44 | 1.0 | ug/L | 0.40 | | 109 | 70-130 | 7 | 20 | 05/29/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 05/29/15 | |

Matrix Spike (A505873-MS1), Source: A5E1869-04

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 3.9 | 1.0 | ug/L | 4.0 | ND | 98 | 70-130 | | | 05/28/15 | |
| 2,4,5-TP (Silvex) | 0.92 | 1.0 | ug/L | 0.80 | ND | 114 | 70-130 | | | 05/28/15 | |
| 2,4-D | 0.34 | 10 | ug/L | 0.40 | ND | 84 | 70-130 | | | 05/28/15 | |
| Bentazon | 7.7 | 2.0 | ug/L | 8.0 | ND | 96 | 70-130 | | | 05/28/15 | |
| Dalapon | 3.6 | 10 | ug/L | 4.0 | ND | 91 | 70-130 | | | 05/28/15 | |
| Dicamba | 5.9 | 1.5 | ug/L | 6.0 | ND | 98 | 70-130 | | | 05/28/15 | |
| Dinoseb | 0.77 | 2.0 | ug/L | 0.80 | ND | 96 | 70-130 | | | 05/28/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 95 | 70-130 | | | 05/28/15 | |
| Picloram | 0.34 | 1.0 | ug/L | 0.40 | ND | 85 | 70-130 | | | 05/28/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 05/28/15 | |

Matrix Spike Dup (A505873-MSD1), Source: A5E1869-04

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|----|----|----------|--|
| 2,4,5-T | 4.1 | 1.0 | ug/L | 4.0 | ND | 104 | 70-130 | 6 | 20 | 05/29/15 | |
| 2,4,5-TP (Silvex) | 0.91 | 1.0 | ug/L | 0.80 | ND | 114 | 70-130 | 1 | 20 | 05/29/15 | |
| 2,4-D | 0.41 | 10 | ug/L | 0.40 | ND | 103 | 70-130 | 19 | 20 | 05/29/15 | |
| Bentazon | 7.8 | 2.0 | ug/L | 8.0 | ND | 98 | 70-130 | 1 | 20 | 05/29/15 | |
| Dalapon | 4.0 | 10 | ug/L | 4.0 | ND | 101 | 70-130 | 10 | 20 | 05/29/15 | |
| Dicamba | 6.1 | 1.5 | ug/L | 6.0 | ND | 102 | 70-130 | 4 | 20 | 05/29/15 | |
| Dinoseb | 0.80 | 2.0 | ug/L | 0.80 | ND | 100 | 70-130 | 4 | 20 | 05/29/15 | |
| Pentachlorophenol | 0.15 | 0.20 | ug/L | 0.16 | ND | 96 | 70-130 | 0 | 20 | 05/29/15 | |
| Picloram | 0.38 | 1.0 | ug/L | 0.40 | ND | 96 | 70-130 | 11 | 20 | 05/29/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 05/29/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505976

Prepared: 05/31/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A505976-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 05/31/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 05/31/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 05/31/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 05/31/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 05/31/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 05/31/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505976

Prepared: 05/31/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank (A505976-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 05/31/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 05/31/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 05/31/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.9 | | | 5.0 | | 97 | 70-130 | | | 05/31/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 100 | 70-130 | | | 05/31/15 | |

Blank Spike (A505976-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,1,2,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| 1,2,3-Trichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 05/31/15 | |
| 1,2,4-Trichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 1,2,4-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,2-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 05/31/15 | |
| 1,2-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,3,5-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,3-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 05/31/15 | |
| 1,4-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 05/31/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| 2-Butanone | 9.7 | 5.0 | ug/L | 10 | | 97 | 70-130 | | | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505976

Prepared: 05/31/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A505976-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| 2-Hexanone | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| 4-Chlorotoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 05/31/15 | |
| 4-Methyl-2-pentanone | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| Acetone | 9.3 | 10 | ug/L | 10 | | 93 | 70-130 | | | 05/31/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| Bromochloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 05/31/15 | |
| Bromodichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| Bromoform | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 05/31/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 112 | 70-130 | | | 05/31/15 | |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| Chlorobenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| Chloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| Chloroform | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 05/31/15 | |
| Chloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| Dibromochloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 05/31/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| Dichlorodifluoromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 05/31/15 | |
| Dichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 05/31/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| Ethylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| Hexachlorobutadiene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 05/31/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 100 | 70-130 | | | 05/31/15 | |
| Naphthalene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| n-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| p-Isopropyltoluene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 05/31/15 | |
| Styrene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.6 | 3.0 | ug/L | 10 | | 96 | 70-130 | | | 05/31/15 | |
| tert-Butyl alcohol (TBA) | 9.2 | 2.0 | ug/L | 10 | | 92 | 70-130 | | | 05/31/15 | |
| tert-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 05/31/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 05/31/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505976

Prepared: 05/31/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike (A505976-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Trichlorofluoromethane | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | | | 05/31/15 | |
| Vinyl Chloride | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 05/31/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.7 | | | 5.0 | | 94 | 70-130 | | | 05/31/15 | |
| Surrogate: Bromofluorobenzene | 47 | | | 50 | | 95 | 70-130 | | | 05/31/15 | |

Blank Spike Dup (A505976-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,1,1-Trichloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 05/31/15 | |
| 1,1,2,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 05/31/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 05/31/15 | |
| 1,1,2-Trichloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,1-Dichloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 05/31/15 | |
| 1,1-Dichloroethene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 05/31/15 | |
| 1,1-Dichloropropene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 05/31/15 | |
| 1,2,3-Trichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,2,4-Trimethylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 05/31/15 | |
| 1,2-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 05/31/15 | |
| 1,2-Dichloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,2-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,3,5-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,3-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,3-Dichloropropane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 1,4-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| 2,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 05/31/15 | |
| 2-Butanone | 9.7 | 5.0 | ug/L | 10 | | 97 | 70-130 | 0 | 30 | 05/31/15 | |
| 2-Chlorotoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| 2-Hexanone | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 05/31/15 | |
| 4-Chlorotoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| 4-Methyl-2-pentanone | 9.8 | 5.0 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 05/31/15 | |
| Acetone | 9.3 | 10 | ug/L | 10 | | 93 | 70-130 | 0 | 30 | 05/31/15 | |
| Benzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 05/31/15 | |
| Bromobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| Bromochloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 05/31/15 | |
| Bromodichloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 05/31/15 | |
| Bromoform | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 1 | 30 | 05/31/15 | |
| Bromomethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 9 | 30 | 05/31/15 | |
| Carbon disulfide | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 4 | 30 | 05/31/15 | |
| Carbon Tetrachloride | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 05/31/15 | |
| Chlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| Chloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 3 | 30 | 05/31/15 | |
| Chloroform | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 05/31/15 | |
| Chloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 05/31/15 | |
| cis-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A505976

Prepared: 05/31/2015

Prep Method: EPA 524.2

Analyst: JGB

Blank Spike Dup (A505976-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|-----|--|-----|--------|---|----|----------|--|
| Dibromochloromethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 05/31/15 | |
| Dibromomethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| Dichlorodifluoromethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 05/31/15 | |
| Dichloromethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 3 | 30 | 05/31/15 | |
| Di-isopropyl ether (DIPE) | 9.8 | 3.0 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 05/31/15 | |
| Ethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| Hexachlorobutadiene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 05/31/15 | |
| Isopropylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 05/31/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| Naphthalene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 05/31/15 | |
| n-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 05/31/15 | |
| n-Propylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| o-Xylene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| p-Isopropyltoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| sec-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 05/31/15 | |
| Styrene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 05/31/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.4 | 3.0 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 05/31/15 | |
| tert-Butyl alcohol (TBA) | 9.1 | 2.0 | ug/L | 10 | | 91 | 70-130 | 1 | 30 | 05/31/15 | |
| tert-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| Tetrachloroethene (PCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| Toluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 05/31/15 | |
| trans-1,2-Dichloroethene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 05/31/15 | |
| Trichloroethene (TCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 05/31/15 | |
| Trichlorofluoromethane | 9.4 | 5.0 | ug/L | 10 | | 94 | 70-130 | 4 | 30 | 05/31/15 | |
| Vinyl Chloride | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 05/31/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 4.8 | | | 5.0 | | 96 | 70-130 | | | 05/31/15 | |
| Surrogate: Bromofluorobenzene | 47 | | | 50 | | 94 | 70-130 | | | 05/31/15 | |

Matrix Spike (A505976-MS1), Source: A5E1915-01

| | | | | | | | | | | | |
|-----------------------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Di-isopropyl ether (DIPE) | 8.7 | 3.0 | ug/L | 10 | ND | 87 | 70-130 | | | 05/31/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.1 | | | 5.0 | | 102 | 70-130 | | | 05/31/15 | |
| Surrogate: Bromofluorobenzene | 51 | | | 50 | | 101 | 70-130 | | | 05/31/15 | |

EPA 525.2 - Quality Control

Batch: A505971

Prepared: 05/29/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A505971-BLK1)

| | | | | | | | | | | | |
|---------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 05/31/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 05/31/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A505971

Prepared: 05/29/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank (A505971-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 05/31/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 05/31/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 05/31/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 05/31/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 05/31/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 05/31/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 05/31/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 05/31/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 05/31/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 05/31/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.0 | | | 5.0 | | 101 | 70-130 | | | 05/31/15 | |

Blank Spike (A505971-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 0.97 | 1.0 | ug/L | 1.0 | | 97 | 70-130 | | | 05/31/15 | |
| Atrazine | 0.50 | 0.50 | ug/L | 0.50 | | 100 | 70-130 | | | 05/31/15 | |
| Benzo(a)pyrene | 0.10 | 0.10 | ug/L | 0.10 | | 104 | 70-130 | | | 05/31/15 | |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 110 | 70-130 | | | 05/31/15 | |
| Bis(2-ethylhexyl) phthalate | 1.8 | 3.0 | ug/L | 1.5 | | 118 | 70-130 | | | 05/31/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 117 | 70-130 | | | 05/31/15 | |
| Butachlor | 0.94 | 0.38 | ug/L | 1.0 | | 94 | 70-130 | | | 05/31/15 | |
| Diazinon | 0.16 | 0.25 | ug/L | 0.20 | | 78 | 70-130 | | | 05/31/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 1.0 | | 100 | 70-130 | | | 05/31/15 | |
| Metolachlor | 2.0 | 0.50 | ug/L | 2.0 | | 102 | 70-130 | | | 05/31/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 117 | 70-130 | | | 05/31/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 103 | 70-130 | | | 05/31/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 2.0 | | 91 | 70-130 | | | 05/31/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | | 108 | 70-130 | | | 05/31/15 | |
| Simazine | 0.35 | 1.0 | ug/L | 0.35 | | 100 | 70-130 | | | 05/31/15 | |
| Thiobencarb | 0.52 | 1.0 | ug/L | 0.50 | | 104 | 70-130 | | | 05/31/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.0 | | | 5.0 | | 101 | 70-130 | | | 05/31/15 | |

Blank Spike Dup (A505971-BSD1)

| | | | | | | | | | | | |
|-----------------------------|------|------|------|------|--|-----|--------|----|----|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 1.0 | | 100 | 70-130 | 3 | 30 | 05/31/15 | |
| Atrazine | 0.52 | 0.50 | ug/L | 0.50 | | 103 | 70-130 | 3 | 30 | 05/31/15 | |
| Benzo(a)pyrene | 0.13 | 0.10 | ug/L | 0.10 | | 130 | 70-130 | 22 | 30 | 05/31/15 | |
| Bis(2-ethylhexyl) adipate | 2.3 | 3.0 | ug/L | 2.0 | | 116 | 70-130 | 6 | 30 | 05/31/15 | |
| Bis(2-ethylhexyl) phthalate | 1.8 | 3.0 | ug/L | 1.5 | | 119 | 70-130 | 1 | 30 | 05/31/15 | |
| Bromacil | 1.2 | 10 | ug/L | 1.0 | | 118 | 70-130 | 1 | 30 | 05/31/15 | |
| Butachlor | 1.0 | 0.38 | ug/L | 1.0 | | 101 | 70-130 | 7 | 30 | 05/31/15 | |
| Diazinon | 0.17 | 0.25 | ug/L | 0.20 | | 84 | 70-130 | 7 | 30 | 05/31/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 106 | 70-130 | 6 | 30 | 05/31/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | | 103 | 70-130 | 0 | 30 | 05/31/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 1.0 | | 110 | 70-130 | 6 | 30 | 05/31/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A505971

Prepared: 05/29/2015

Prep Method: EPA 525.2

Analyst: KHH

Blank Spike Dup (A505971-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|---|----|----------|--|
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 107 | 70-130 | 4 | 30 | 05/31/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 2.0 | | 92 | 70-130 | 1 | 30 | 05/31/15 | |
| Propachlor | 0.53 | 0.50 | ug/L | 0.50 | | 106 | 70-130 | 2 | 30 | 05/31/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 102 | 70-130 | 2 | 30 | 05/31/15 | |
| Thiobencarb | 0.49 | 1.0 | ug/L | 0.50 | | 99 | 70-130 | 6 | 30 | 05/31/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.0 | | | 5.0 | | 99 | 70-130 | | | 05/31/15 | |

Matrix Spike (A505971-MS1), Source: A5E1972-01

| | | | | | | | | | | | |
|--|------|------|------|-------|----|-----|--------|--|--|----------|--|
| Alachlor | 1.0 | 1.0 | ug/L | 0.98 | ND | 107 | 70-130 | | | 05/31/15 | |
| Atrazine | 0.53 | 0.50 | ug/L | 0.49 | ND | 109 | 70-130 | | | 05/31/15 | |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.098 | ND | 113 | 70-130 | | | 05/31/15 | |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | ND | 108 | 70-130 | | | 05/31/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | ND | 114 | 70-130 | | | 05/31/15 | |
| Bromacil | 1.2 | 10 | ug/L | 0.98 | ND | 125 | 70-130 | | | 05/31/15 | |
| Butachlor | 0.98 | 0.38 | ug/L | 0.98 | ND | 100 | 70-130 | | | 05/31/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | ND | 90 | 70-130 | | | 05/31/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 0.98 | ND | 101 | 70-130 | | | 05/31/15 | |
| Metolachlor | 2.1 | 0.50 | ug/L | 2.0 | ND | 107 | 70-130 | | | 05/31/15 | |
| Metribuzin | 1.1 | 0.50 | ug/L | 0.98 | ND | 112 | 70-130 | | | 05/31/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 0.98 | ND | 108 | 70-130 | | | 05/31/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | ND | 106 | 70-130 | | | 05/31/15 | |
| Propachlor | 0.55 | 0.50 | ug/L | 0.49 | ND | 113 | 70-130 | | | 05/31/15 | |
| Simazine | 0.33 | 1.0 | ug/L | 0.34 | ND | 97 | 70-130 | | | 05/31/15 | |
| Thiobencarb | 0.49 | 1.0 | ug/L | 0.49 | ND | 101 | 70-130 | | | 05/31/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.9 | | | 4.9 | | 101 | 70-130 | | | 05/31/15 | |

EPA 531.1 - Quality Control

Batch: A505859

Prepared: 05/27/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank (A505859-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 05/27/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 05/27/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 05/27/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 05/27/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 05/27/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 05/27/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 05/27/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 05/27/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 05/27/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 05/27/15 | |

Blank Spike (A505859-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | | 105 | 80-120 | | | 05/27/15 | |
| Aldicarb | 4.1 | 3.0 | ug/L | 4.0 | | 102 | 80-120 | | | 05/27/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A505859

Prepared: 05/27/2015

Prep Method: EPA 531.1

Analyst: AAR

Blank Spike (A505859-BS1)

| | | | | | | | | | | | |
|--------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 05/27/15 | |
| Aldicarb Sulfoxide | 4.2 | 3.0 | ug/L | 4.0 | | 104 | 80-120 | | | 05/27/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | | | 05/27/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | | | 05/27/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 05/27/15 | |
| Methomyl | 4.1 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 05/27/15 | |
| Oxamyl | 4.2 | 20 | ug/L | 4.0 | | 105 | 80-120 | | | 05/27/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 05/27/15 | |

Blank Spike Dup (A505859-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | | 106 | 80-120 | 1 | 20 | 05/27/15 | |
| Aldicarb | 3.9 | 3.0 | ug/L | 4.0 | | 99 | 80-120 | 3 | 20 | 05/27/15 | |
| Aldicarb Sulfone | 4.2 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | 4 | 20 | 05/27/15 | |
| Aldicarb Sulfoxide | 4.3 | 3.0 | ug/L | 4.0 | | 107 | 80-120 | 3 | 20 | 05/27/15 | |
| Carbaryl | 4.2 | 5.0 | ug/L | 4.0 | | 104 | 80-120 | 2 | 20 | 05/27/15 | |
| Carbofuran | 4.0 | 5.0 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 05/27/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 104 | 80-120 | 1 | 20 | 05/27/15 | |
| Methomyl | 4.3 | 2.0 | ug/L | 4.0 | | 106 | 80-120 | 5 | 20 | 05/27/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 104 | 80-120 | 1 | 20 | 05/27/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | 4 | 20 | 05/27/15 | |

Matrix Spike (A505859-MS1), Source: A5E1869-04

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 05/27/15 | |
| Aldicarb | 4.5 | 3.0 | ug/L | 4.0 | ND | 111 | 65-135 | | | 05/27/15 | |
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 05/27/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 05/27/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | ND | 104 | 65-135 | | | 05/27/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 05/27/15 | |
| Methiocarb | 3.9 | 2.0 | ug/L | 4.0 | ND | 98 | 65-135 | | | 05/27/15 | |
| Methomyl | 4.6 | 2.0 | ug/L | 4.0 | ND | 115 | 65-135 | | | 05/27/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 103 | 65-135 | | | 05/27/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | ND | 103 | 65-135 | | | 05/27/15 | |

EPA 547 - Quality Control

Batch: A505989

Prepared: 06/01/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A505989-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 06/01/15 | |
| Surrogate: AMPA | 120 | | | 100 | | 119 | 70-130 | | | 06/01/15 | |

Blank Spike (A505989-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 98 | 25 | ug/L | 100 | | 98 | 70-130 | | | 06/01/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 06/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 547 - Quality Control

Batch: A505989

Prepared: 06/01/2015

Prep Method: EPA 547

Analyst: WPR

Blank Spike Dup (A505989-BSD1)

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|--|----|--------|---|----|----------|--|
| Glyphosate | 96 | 25 | ug/L | 100 | | 96 | 70-130 | 2 | 30 | 06/01/15 | |
| Surrogate: AMPA | 96 | | | 100 | | 96 | 70-130 | | | 06/01/15 | |

Matrix Spike (A505989-MS1), Source: A5E2327-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|--|--|----------|--|
| Glyphosate | 90 | 25 | ug/L | 100 | ND | 88 | 70-130 | | | 06/01/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 108 | 70-130 | | | 06/01/15 | |

Matrix Spike Dup (A505989-MSD1), Source: A5E2327-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|--|
| Glyphosate | 100 | 25 | ug/L | 100 | ND | 101 | 70-130 | 14 | 30 | 06/01/15 | |
| Surrogate: AMPA | 110 | | | 100 | | 112 | 70-130 | | | 06/01/15 | |

EPA 548.1 - Quality Control

Batch: A505858

Prepared: 05/27/2015

Prep Method: EPA 548.1

Analyst: KHH

Blank (A505858-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 05/28/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A505858-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|-----|--------|--|--|----------|--|
| Endothall | 23 | 45 | ug/L | 20 | | 114 | 46-116 | | | 05/28/15 | |
|-----------|----|----|------|----|--|-----|--------|--|--|----------|--|

Blank Spike Dup (A505858-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|---------|
| Endothall | 25 | 45 | ug/L | 20 | | 126 | 46-116 | 10 | 30 | 05/28/15 | BS High |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|---------|

Matrix Spike (A505858-MS1), Source: A5E1985-01

| | | | | | | | | | | | |
|-----------|-----|----|------|----|----|----|--------|--|--|----------|-----------|
| Endothall | 3.4 | 45 | ug/L | 20 | ND | 17 | 46-116 | | | 05/28/15 | MS1.0 Low |
|-----------|-----|----|------|----|----|----|--------|--|--|----------|-----------|

Matrix Spike Dup (A505858-MSD1), Source: A5E1985-01

| | | | | | | | | | | | |
|-----------|-----|----|------|----|----|----|--------|---|----|----------|-----------|
| Endothall | 3.2 | 45 | ug/L | 20 | ND | 16 | 46-116 | 6 | 30 | 05/28/15 | MS1.0 Low |
|-----------|-----|----|------|----|----|----|--------|---|----|----------|-----------|

EPA 549.2 - Quality Control

Batch: A505793

Prepared: 05/26/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A505793-BLK1)

| | | | | | | | | | | | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 4.0 | ug/L | | | | | | | 05/29/15 | |
|--------|----|-----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A505793-BS1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| Diquat | 5.0 | 4.0 | ug/L | 4.0 | | 124 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|

Blank Spike Dup (A505793-BSD1)

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|
| Diquat | 5.1 | 4.0 | ug/L | 4.0 | | 128 | 70-130 | 3 | 30 | 05/29/15 | |
|--------|-----|-----|------|-----|--|-----|--------|---|----|----------|--|

Matrix Spike (A505793-MS1), Source: A5E1869-02

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Diquat | 4.8 | 4.0 | ug/L | 4.0 | ND | 121 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 549.2 - Quality Control

Batch: A505793

Prepared: 05/26/2015

Prep Method: EPA 549.2

Analyst: PYA

Matrix Spike (A505793-MS2), Source: A5E1869-03

| | | | | | | | | | | | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Diquat | 4.8 | 4.0 | ug/L | 4.0 | ND | 119 | 70-130 | | | 05/29/15 | |
|--------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5E1979



05222015

Monte6227

Turnaround: Standard

Due Date: 6/8/2015



Monterey Bay Analytical



BSK Associates

Engineers & Laboratories

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bsassociates.com

*Required Fields

Temp: 20.9

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ASE1979
 Monte6227
 05/22/2011
 10

Page 20 of 21

Company/Client Name: Monterey Bay Analytical Services
 Report Attention: Mason Weidner-Holland
 Additional cc's: David Holland
 Invoice To: David Holland
 PO#:

Address: 4 Justin Court, Suite D
 Project: Cal Am
 City: Monterey
 State: CA
 Zip: 93940

Project #: _____
 How would you like to receive your completed results?
 E-Mail
 Fax
 Mail

Reporting Options:
 Trace (J-Flag)
 Swamp
 EDD Type: _____

Regulatory Carbon Copies:
 SWRCB (Drinking Water)
 Merced Co
 Madera Co
 Other: _____

Regulatory Compliance:
 EDT to California SWRCB (Drinking Water)
 System Number: _____

Sampler Name (Printed/Signature): Matan Salmon
 Geotracker #: _____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DV=Drinking Water SO=Solid
 Matrix

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRAX | EPA 524 | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|---|---------------------|----------|------|---------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Date | Time | | | | | | | | | | |
| 1 | MW-8D (monitoring) | 5/21/15 | 1105 | GW | AB30918 | X | X | X | X | X | X | X | X |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

Relinquished by: (Signature and Printed Name) D. Holland MBAS Company
 Date: 5/21/15 Time: 1600
 Received by: (Signature and Printed Name) [Signature] Company
 Date: _____ Time: _____
 Shipping Method: UPS UPS None
 Cooling Method: None None
 GSO WALK-IN
 FED EX Courier: _____
 Date: 5/22/15 Time: 16:00
 Payment Received at Delivery:
 Amount: _____
 Check / Int. Cash
 Chilling Process Begun: N
 Custody Seal: N
 P/A#:
 B.V.

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bsassociates.com/BSKLabTermsConditions.pdf

SR-F-0012-06



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | | <u>Yes</u> No NA | | Were correct containers and preservatives received for the tests requested? | | <u>Yes</u> No NA | |
|--|---|---|--------------------|-----------|---|--------------------|------------------|---------|
| | If samples were taken today, is there evidence that chilling has begun? | | Yes No <u>NA</u> | | Were there bubbles in the VOA vials? (Volatiles Only) | | Yes <u>No</u> NA | |
| COC Info | Did all bottles arrive unbroken and intact? | | <u>Yes</u> No | | Was a sufficient amount of sample received? | | <u>Yes</u> No | |
| | Did all bottle labels agree with COC? | | <u>Yes</u> No | | Do samples have a hold time <72 hours? | | Yes <u>No</u> | |
| COC Info | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | | Yes No <u>NA</u> | | Was PM notified of discrepancies? PM: _____ By/Time: _____ | | Yes No <u>NA</u> | |
| | Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | |
| Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | | — | — | | | | | |
| None (P) ^{White Cap} | | — | — | | | | | |
| Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | | Cl, pH > 8 | Y | N | | | | |
| Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | | pH 9-9.5 | Y | N | | | | |
| Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | | pH 9.3-9.7 | Y | N | | | | |
| HNO_3 (P) ^{Red Cap} | | — | — | | | | | |
| H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | | pH < 2 | Y | N | | | | |
| NaOH (P) ^{Green Cap} | | Cl, pH > 10 | Y | N | | | | |
| NaOH + ZnAc (P) | | pH > 9 | Y | N | | | | |
| Dissolved Oxygen 300ml (g) | | — | — | | | | | JH |
| None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | | — | — | | | | | 5/21/15 |
| HCl (AG) ^{Lt. Blue Label} O&G, Diesel | | — | — | | | | | |
| $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | | — | — | | | | | 2C |
| $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | | — | — | | | | | 1C |
| $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547,515,548,THM,524 | | — | — | | | | | 1V, 2A |
| $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | | — | — | | | | | 3V |
| $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) ^{Orange Label} 531 | | pH < 3 | <u>Y</u> | N | | | | 1V |
| NH_4Cl (AG) ^{Purple Label} 552 | | — | — | | | | | |
| EDA (AG) ^{Brown Label} DBPs | | — | — | | | | | |
| HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | | — | — | | | | | 3V |
| Buffer pH 4 (CG) | | — | — | | | | | |
| None (CG) | | — | — | | | | | |
| H_3PO_4 (CG) ^{Salmon Label} | | — | — | | | | | |
| Other: | | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | | — | — | | | | | |
| Low Level Hg / Metals Double Baggie | | — | — | | | | | |
| Bottled Water | | — | — | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | | |
| | S P | | | S P | | | | |
| | S P | | | S P | | | | |
| Comments | | | | | | | | |

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

May 28, 2015

Ceres ID: 10667

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on May 22, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.


This work was authorized under M.B.A.'s Project # AB30918.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10667-001 | MW-8D (monitoring) | 5/22/2015 | 5/21/2015 11:05 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB30918 | | Sample Size: | 1.000 L | QC Batch #: | 1321 | Date Extracted: | 26-May-15 |
| | | | | | ZB-5 MS Analysis Date: | 27-May-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 1.24 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 98.3 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 95.4 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|--|------------------------|---------------------------|-------------------|-----------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB30918 | | Sample Size: | 1.000 L | QC Batch #: | 1321 | Date Extracted: | 26-May-15 |
| | | | | | ZB-5 MS Analysis Date: | 27-May-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers | |
| 2,3,7,8-TCDD | 8.96 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 93.3 | 25-141 | | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 9.48 | 3.7-15.8 | | |
| <i>a. Method acceptance criteria .</i> | | | | | | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-8D (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10667-001 | | Date Received: 22-May-15 |
| Project: AB30918 | | | Sample Size: 1.013 L | | QC Batch #: 1321 | | Date Extracted: 26-May-15 |
| Date Collected: 21-May-15 | | | | | ZB-5 MS Analysis Date: 27-May-15 | | |
| Time Collected: 11:05 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.30 | | | IS ¹³ C-2,3,7,8-TCDD | 84.1 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 105 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: 10667
 Temperature: 2.3 °C

Reports and invoices will be delivered by email in .pdf format

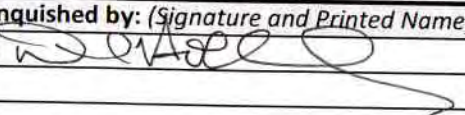
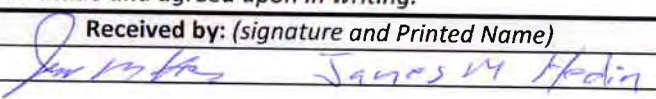
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|---|---|
| Company Name: <u>Monterey Bay Analytical</u> Contact Name: <u>David Holland</u> Address: <u>4 Justin Court Ste D Monterey CA 93940</u> Ph: <u>831-375-6227</u> Email: <u>mweidner@mbasinc.com</u> | Company Name: <u>Same</u> Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) Results by 4/13/15 Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|
| | | Date | Time | | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other |
| 1 | MW-8D (monitoring) | 5/21/2015 | 1105 | 0:00 | Aq | 2 | X | | | | | | AB30918 |
| 2 | | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | | Please include excel report |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|-----------|-------|--|---------|-------|
| D. Holland  | 5/21/2015 | 16:00 |  James M. Hadin | 5/22/15 | 09:49 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|---|
| Ceres ID: <u>10667</u> | Date/Time: <u>5/22/15 09:48</u> |
| Client Project ID: <u>AB30918</u> | Received Temperature: <u>2.3°C</u> Acceptable: <u>Y</u> /N |
| Chain of Custody Relinquished by signed? | <u>Y</u> /N |
| Custody Seals? Present? | Y/N |
| | Intact? |
| | NA: <u>NA</u> |
| Unlabeled / Illegible Samples | Y/ <u>N</u> |
| Proper Containers: | <u>Y</u> /N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <u>Y</u> /N |
| Drinking Water, Sodium Thiosulfate present? | Y/N/ <u>NA</u> |
| List COC discrepancies: | |
| 5/22/15 | |
| List Damaged Samples: | |
| 5/22/15 | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10667 PB: 1321 Sample #: 1 Due Date: 6/8/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions

- 1 Calibrate balance
- 2 Tare balance
- 3 Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
- 4 Weigh empty bottle and cap. Record as Bottle Wt.
- 5 Calculate sample Volume (assuming 1g = 1ml) as follows

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10667-1 | 1534.20g | 520.94g | 1.013 L |
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Chemist J Date 5/28/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|--------|-------------------|-------------------|-------------------|-------------------|-----|---------|-----|---------|-----|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | | |
| 0-1321-MB001 | Method Blank | | 1.000L | 5/26/15 WAH | 5/27/15 WAH | WAH | 5/27/15 | WAH | 5/27/15 | WAH | 5/27/15 | WAH |
| 0-1321-OPR001 | OPR | | 1.000L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10667-1321-001 | MW-8D (monitoring) | ✓ | 1.013L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
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Comments: A OPR spiked with NSS.

Soxhlet Start: 15:15 5/26/15
 Soxhlet Stop: 07:30 5/27/15

Samples Logged out by: 11:00 5/26/15
 Samples Returned by: WAH
 Note samples Depleted: 1A

Sample Extracts Storage Location: Box 15
 Extracts to Instrument: 10:22 5/27/15
 Extracts returned to Storage Location: _____

Chemist: [Signature]

Method: 1613B
SOP #: 3811

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | 502115A | 100 | 2/10/20 |
| NSS | B | 100 | |
| CSS | C | 100 | |
| RSS | D | 200 | |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|-------------|----------------|----------|-----------|
| Toluene | 450ml | 143616 | 2/5/16 |
| Hexanes | 30,30,100,20ml | 147232 | 4/3/16 |
| Sigel | 4g | P031615A | 9/10/15 |
| Basic Sigel | 4g | P021915A | 8/19/15 |
| Acid Sigel | 8g | P021915B | 8/19/15 |
| Acid A1 | 6g | P042015A | 10/20/15 |
| Na2SO4 | 1.5g | P041515A | 10/15/15 |
| 20% AcM:Hex | 30ml | L041015A | 10/1/15 |
| | | | |
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| | | | |

Chemist: 

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 06/12/15 09:18 |
| Attention: David Holland | Received Date: 05/22/15 13:10 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5E22048 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

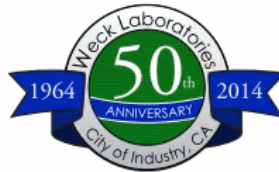
Dear David Holland :

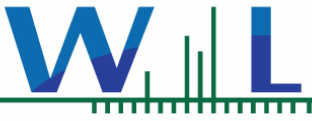
Enclosed are the results of analyses for samples received 05/22/15 13:10 with the Chain of Custody document. The samples were received in good condition, at 2.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|------------------------------|---------------|------------|--------|----------------|
| MW-8D (monitoring) (AB30918) | Matan Solomon | 5E22048-01 | Water | 05/21/15 11:05 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

5E22048-01 MW-8D (monitoring)

Sampled: 05/21/15 11:05

Sampled By: Matan Solomon

Matrix: Water

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5E1657

Prepared: 05/29/15 11:30

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 10 | ug/l | 1 | 05/29/15 20:22 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5E1460

Prepared: 05/27/15 09:04

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 06/10/15 01:44 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 06/10/15 01:44 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Endrin | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 06/10/15 01:44 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 06/10/15 01:44 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 06/10/15 01:44 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 06/10/15 01:44 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 06/10/15 01:44 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 06/10/15 01:44 | |
| Surr: Decachlorobiphenyl | 100 % | Conc:0.100 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 90 % | Conc:0.0904 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

5E22048-01 MW-8D (monitoring)**Sampled:** 05/21/15 11:05**Sampled By:** Matan Solomon**Matrix:** Water**Chlorinated Pesticides and/or PCBs**

Method: EPA 608

Batch: W5E1349

Prepared: 05/23/15 09:37

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--------------------------------------|--------|-------------|---------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.050 | ug/l | 1 | 06/06/15 07:07 | |
| 4,4'-DDE | ND | 0.050 | ug/l | 1 | 06/06/15 07:07 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Aldrin | ND | 0.0050 | ug/l | 1 | 06/06/15 07:07 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1016 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1221 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1232 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1242 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1248 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1254 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| Aroclor 1260 | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| beta-BHC | ND | 0.0050 | ug/l | 1 | 06/06/15 07:07 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 06/06/15 07:07 | |
| delta-BHC | ND | 0.0050 | ug/l | 1 | 06/06/15 07:07 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Endosulfan I | ND | 0.020 | ug/l | 1 | 06/06/15 07:07 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Endosulfan sulfate | ND | 0.050 | ug/l | 1 | 06/06/15 07:07 | |
| Endrin | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| gamma-BHC (Lindane) | ND | 0.020 | ug/l | 1 | 06/06/15 07:07 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 06/06/15 07:07 | |
| Toxaphene | ND | 0.50 | ug/l | 1 | 06/06/15 07:07 | |
| <i>Surr: Decachlorobiphenyl</i> | 83 % | Conc:0.0827 | 0.1-118 | % | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 78 % | Conc:0.0775 | 12-117 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Anions by IC, EPA Method 9056 - Quality Control

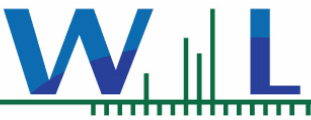
Batch W5E1657 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5E1657-BLK1) | | | | Analyzed: 05/29/15 12:31 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5E1657-BS1) | | | | Analyzed: 05/29/15 13:18 | | | | | | |
| Iodide | 41.8 | 10 | ug/l | 40.0 | | 104 | 85-115 | | | |
| Matrix Spike (W5E1657-MS1) | | | | Source: 5E22049-01 | | Analyzed: 05/29/15 19:22 | | | | |
| Iodide | 146 | 25 | ug/l | 100 | 42.6 | 103 | 80-120 | | | |
| Matrix Spike (W5E1657-MS2) | | | | Source: 5E22050-01 | | Analyzed: 05/29/15 19:52 | | | | |
| Iodide | 146 | 25 | ug/l | 100 | 48.4 | 98 | 80-120 | | | |
| Matrix Spike Dup (W5E1657-MSD1) | | | | Source: 5E22049-01 | | Analyzed: 05/29/15 19:38 | | | | |
| Iodide | 137 | 25 | ug/l | 100 | 42.6 | 94 | 80-120 | 7 | 20 | |
| Matrix Spike Dup (W5E1657-MSD2) | | | | Source: 5E22050-01 | | Analyzed: 05/29/15 20:08 | | | | |
| Iodide | 150 | 25 | ug/l | 100 | 48.4 | 102 | 80-120 | 3 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5E1349 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|--------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5E1349-BLK1) | | | | Analyzed: 06/05/15 20:54 | | | | | | |
| 4,4'-DDD | ND | 0.050 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.050 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.0050 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.50 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.50 | ug/l | | | | | | | |
| beta-BHC | ND | 0.0050 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| delta-BHC | ND | 0.0050 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.020 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.050 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.020 | ug/l | | | | | | | |



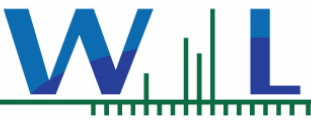
Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5E1349 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|--------|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5E1349-BLK1) | | | | Analyzed: 06/05/15 20:54 | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Toxaphene | ND | 0.50 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0942 | | ug/l | 0.100 | | 94 | 0.1-118 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0803 | | ug/l | 0.100 | | 80 | 12-117 | | | |
| LCS (W5E1349-BS1) | | | | Analyzed: 06/05/15 21:25 | | | | | | |
| 4,4'-DDD | 0.0882 | 0.050 | ug/l | 0.100 | | 88 | 42-133 | | | |
| 4,4'-DDE | 0.0862 | 0.050 | ug/l | 0.100 | | 86 | 33-126 | | | |
| 4,4'-DDT | 0.0691 | 0.010 | ug/l | 0.100 | | 69 | 35-147 | | | |
| Aldrin | 0.0762 | 0.0050 | ug/l | 0.100 | | 76 | 18-117 | | | |
| alpha-BHC | 0.0835 | 0.010 | ug/l | 0.100 | | 83 | 47-119 | | | |
| beta-BHC | 0.0951 | 0.0050 | ug/l | 0.100 | | 95 | 53-123 | | | |
| delta-BHC | 0.102 | 0.0050 | ug/l | 0.100 | | 102 | 51-123 | | | |
| Dieldrin | 0.0832 | 0.010 | ug/l | 0.100 | | 83 | 48-123 | | | |
| Endosulfan I | 0.0684 | 0.020 | ug/l | 0.100 | | 68 | 14-131 | | | |
| Endosulfan II | 0.0661 | 0.010 | ug/l | 0.100 | | 66 | 40-121 | | | |
| Endosulfan sulfate | 0.0793 | 0.050 | ug/l | 0.100 | | 79 | 44-140 | | | |
| Endrin | 0.0855 | 0.010 | ug/l | 0.100 | | 86 | 40-143 | | | |
| Endrin aldehyde | 0.0929 | 0.010 | ug/l | 0.100 | | 93 | 18-136 | | | |
| gamma-BHC (Lindane) | 0.0840 | 0.020 | ug/l | 0.100 | | 84 | 49-117 | | | |
| Heptachlor | 0.0834 | 0.010 | ug/l | 0.100 | | 83 | 31-130 | | | |
| Heptachlor epoxide | 0.0840 | 0.010 | ug/l | 0.100 | | 84 | 49-122 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0912 | | ug/l | 0.100 | | 91 | 0.1-118 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0758 | | ug/l | 0.100 | | 76 | 12-117 | | | |
| Matrix Spike (W5E1349-MS1) | | | | Source: 5E21066-01 | | Analyzed: 06/05/15 21:56 | | | | |
| 4,4'-DDD | 0.0738 | 0.050 | ug/l | 0.100 | ND | 74 | 23-124 | | | |
| 4,4'-DDE | 0.0778 | 0.050 | ug/l | 0.100 | ND | 78 | 30-114 | | | |
| 4,4'-DDT | 0.0808 | 0.010 | ug/l | 0.100 | ND | 81 | 11-151 | | | |
| Aldrin | 0.0643 | 0.0050 | ug/l | 0.100 | ND | 64 | 18-110 | | | |
| alpha-BHC | 0.0740 | 0.010 | ug/l | 0.100 | ND | 74 | 43-114 | | | |
| beta-BHC | 0.0713 | 0.0050 | ug/l | 0.100 | ND | 71 | 24-135 | | | |
| delta-BHC | 0.0840 | 0.0050 | ug/l | 0.100 | ND | 84 | 37-122 | | | |
| Dieldrin | 0.0715 | 0.010 | ug/l | 0.100 | ND | 71 | 27-132 | | | |
| Endosulfan I | 0.0579 | 0.020 | ug/l | 0.100 | ND | 58 | 0.1-140 | | | |
| Endosulfan II | 0.0655 | 0.010 | ug/l | 0.100 | ND | 66 | 17-122 | | | |
| Endosulfan sulfate | 0.0855 | 0.050 | ug/l | 0.100 | ND | 85 | 37-131 | | | |
| Endrin | 0.0813 | 0.010 | ug/l | 0.100 | ND | 81 | 42-144 | | | |
| Endrin aldehyde | 0.0796 | 0.010 | ug/l | 0.100 | ND | 80 | 11-113 | | | |
| gamma-BHC (Lindane) | 0.0736 | 0.020 | ug/l | 0.100 | ND | 74 | 33-112 | | | |
| Heptachlor | 0.0721 | 0.010 | ug/l | 0.100 | ND | 72 | 28-131 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5E1349 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|--------|---------------------------|-------------|--------------------------|------|--------------|-----|-----------|-----------------|
| Matrix Spike (W5E1349-MS1) | | | Source: 5E21066-01 | | Analyzed: 06/05/15 21:56 | | | | | |
| Heptachlor epoxide | 0.0692 | 0.010 | ug/l | 0.100 | ND | 69 | 36-117 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0766 | | ug/l | 0.100 | | 77 | 0.1-118 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0656 | | ug/l | 0.100 | | 66 | 12-117 | | | |
| Matrix Spike Dup (W5E1349-MSD1) | | | Source: 5E21066-01 | | Analyzed: 06/05/15 22:26 | | | | | |
| 4,4'-DDD | 0.0622 | 0.050 | ug/l | 0.100 | ND | 62 | 23-124 | 17 | 30 | |
| 4,4'-DDE | 0.0664 | 0.050 | ug/l | 0.100 | ND | 66 | 30-114 | 16 | 30 | |
| 4,4'-DDT | 0.0688 | 0.010 | ug/l | 0.100 | ND | 69 | 11-151 | 16 | 30 | |
| Aldrin | 0.0577 | 0.0050 | ug/l | 0.100 | ND | 58 | 18-110 | 11 | 30 | |
| alpha-BHC | 0.0629 | 0.010 | ug/l | 0.100 | ND | 63 | 43-114 | 16 | 30 | |
| beta-BHC | 0.0586 | 0.0050 | ug/l | 0.100 | ND | 59 | 24-135 | 20 | 30 | |
| delta-BHC | 0.0694 | 0.0050 | ug/l | 0.100 | ND | 69 | 37-122 | 19 | 30 | |
| Dieldrin | 0.0610 | 0.010 | ug/l | 0.100 | ND | 61 | 27-132 | 16 | 30 | |
| Endosulfan I | 0.0501 | 0.020 | ug/l | 0.100 | ND | 50 | 0.1-140 | 14 | 30 | |
| Endosulfan II | 0.0539 | 0.010 | ug/l | 0.100 | ND | 54 | 17-122 | 20 | 30 | |
| Endosulfan sulfate | 0.0716 | 0.050 | ug/l | 0.100 | ND | 72 | 37-131 | 18 | 30 | |
| Endrin | 0.0692 | 0.010 | ug/l | 0.100 | ND | 69 | 42-144 | 16 | 30 | |
| Endrin aldehyde | 0.0656 | 0.010 | ug/l | 0.100 | ND | 66 | 11-113 | 19 | 30 | |
| gamma-BHC (Lindane) | 0.0632 | 0.020 | ug/l | 0.100 | ND | 63 | 33-112 | 15 | 30 | |
| Heptachlor | 0.0615 | 0.010 | ug/l | 0.100 | ND | 61 | 28-131 | 16 | 30 | |
| Heptachlor epoxide | 0.0594 | 0.010 | ug/l | 0.100 | ND | 59 | 36-117 | 15 | 30 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.0796 | | ug/l | 0.100 | | 80 | 0.1-118 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0544 | | ug/l | 0.100 | | 54 | 12-117 | | | |

Batch W5E1460 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|--------------------------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5E1460-BLK1) | | | Analyzed: 06/10/15 00:12 | | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5E1460 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5E1460-BLK1) | | | | | | | | | | |
| Analyzed: 06/10/15 00:12 | | | | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.107 | | ug/l | 0.100 | | 107 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0911 | | ug/l | 0.100 | | 91 | 70-130 | | | |
| LCS (W5E1460-BS1) | | | | | | | | | | |
| Analyzed: 06/10/15 00:42 | | | | | | | | | | |
| 4,4'-DDD | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 55-142 | | | |
| 4,4'-DDE | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 49-129 | | | |
| 4,4'-DDT | 0.114 | 0.010 | ug/l | 0.100 | | 114 | 54-160 | | | |
| Aldrin | 0.0917 | 0.010 | ug/l | 0.100 | | 92 | 29-115 | | | |
| alpha-BHC | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 59-131 | | | |
| beta-BHC | 0.115 | 0.010 | ug/l | 0.100 | | 115 | 63-136 | | | |
| delta-BHC | 0.120 | 0.010 | ug/l | 0.100 | | 120 | 59-137 | | | |
| Dieldrin | 0.101 | 0.010 | ug/l | 0.100 | | 101 | 59-135 | | | |
| Endosulfan I | 0.0826 | 0.010 | ug/l | 0.100 | | 83 | 28-138 | | | |
| Endosulfan II | 0.0867 | 0.010 | ug/l | 0.100 | | 87 | 53-133 | | | |
| Endosulfan sulfate | 0.0985 | 0.010 | ug/l | 0.100 | | 99 | 58-155 | | | |
| Endrin | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 57-148 | | | |
| Endrin aldehyde | 0.0892 | 0.010 | ug/l | 0.100 | | 89 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-129 | | | |
| Heptachlor | 0.0980 | 0.010 | ug/l | 0.100 | | 98 | 42-136 | | | |
| Heptachlor epoxide | 0.100 | 0.010 | ug/l | 0.100 | | 100 | 59-134 | | | |
| Methoxychlor | 0.0879 | 0.010 | ug/l | 0.100 | | 88 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.110 | | ug/l | 0.100 | | 110 | 70-130 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5E1460 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS (W5E1460-BS1) | | | | Analyzed: 06/10/15 00:42 | | | | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.102 | | ug/l | 0.100 | | 102 | 70-130 | | | |
| LCS Dup (W5E1460-BSD1) | | | | Analyzed: 06/10/15 01:13 | | | | | | |
| 4,4'-DDD | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 55-142 | 7 | 25 | |
| 4,4'-DDE | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 49-129 | 9 | 25 | |
| 4,4'-DDT | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 54-160 | 9 | 25 | |
| Aldrin | 0.100 | 0.010 | ug/l | 0.100 | | 100 | 29-115 | 9 | 25 | |
| alpha-BHC | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 59-131 | 7 | 25 | |
| beta-BHC | 0.127 | 0.010 | ug/l | 0.100 | | 127 | 63-136 | 9 | 25 | |
| delta-BHC | 0.130 | 0.010 | ug/l | 0.100 | | 130 | 59-137 | 8 | 25 | |
| Dieldrin | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-135 | 7 | 25 | |
| Endosulfan I | 0.0891 | 0.010 | ug/l | 0.100 | | 89 | 28-138 | 7 | 25 | |
| Endosulfan II | 0.0951 | 0.010 | ug/l | 0.100 | | 95 | 53-133 | 9 | 25 | |
| Endosulfan sulfate | 0.110 | 0.010 | ug/l | 0.100 | | 110 | 58-155 | 11 | 25 | |
| Endrin | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 57-148 | 8 | 25 | |
| Endrin aldehyde | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 45-139 | 20 | 25 | |
| gamma-BHC (Lindane) | 0.113 | 0.010 | ug/l | 0.100 | | 113 | 59-129 | 7 | 25 | |
| Heptachlor | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 42-136 | 9 | 25 | |
| Heptachlor epoxide | 0.108 | 0.010 | ug/l | 0.100 | | 108 | 59-134 | 7 | 25 | |
| Methoxychlor | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 56-167 | 18 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | 0.119 | | ug/l | 0.100 | | 119 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.103 | | ug/l | 0.100 | | 103 | 70-130 | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 05/22/15 13:10
Date Reported: 06/12/15 09:18

Notes and Definitions

| | |
|--------------|---|
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | | | | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|--|--|--|--|--|--|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter | | | | | | | |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | | |
|------------|-----------------------------|---|----------|---------|-----------------|-------------------|----------|---------|-------|--------|---------|-----------|-------------------|-----------------|--|
| | | | Date | Time | | CL2 | Residual | Routine | Other | Repeat | | Special | Type | Size | |
| 30918 | | MW-8D (monitoring) Full Monitoring Panel | 5/21/15 | 11:05am | 19.7 | | | | | | | | | | |
| | | | | | | | | | | | | | Field Parameters: | | |
| | | | | | | | | | | | | | Temp: | 21.2°C | |
| | | | | | | | | | | | | | pH: | 7.33 | |
| | | | | | | | | | | | | | Sp Cond: | Cond 1113 µS/cm | |
| | | | | | | | | | | | | | Turb: | 2.48 | |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|----------------------------------|-----------|---------|---------|--|
| Sampled by: | Matan Salmon / GSSI | | 5/21/15 | 12:00pm | Is sample for regulatory purposes? <input checked="" type="radio"/> Yes / <input type="radio"/> No 1 40mL VOA not filled |
| Relinquished by: | Matan Salmon | | 5/21/15 | 1408 | |
| Received by: | Monterey Bay Analytical Services | | 5/21/15 | 1113 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA ~~<2 Hr~~

Is there evidence of chilling?

YES NO NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Comments

| | |
|---|--|
| vacuum filter 0.45 μ + divide 1L 5/2/15 Lj / HM | → 500mL diss. NH ₃ /TKN + H ₂ SO ₄ + Na ₂ SiO ₃ → 250mL diss. total P + H ₂ SO ₄ → 250mL diss. ortho phosphate (NP) |
|---|--|



California American Water
P.O. Box 951, Monterey, CA 93942-0951
ph: 831-646-3259 / 831-646-3269
Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB32527

Collection Date/Time: 6/30/2015 15:00 Sample Collector: SALMON M
Submittal Date/Time: 6/30/2015 16:26 Sample ID

Sample Description: MW-9S

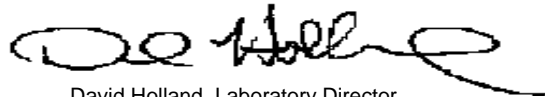
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|--------------|-------------|--------------|------|-------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 1051 | | 2 | 7/8/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | 11 | | 10 | 7/2/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | 2.83 | | 0.05 | 7/9/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 11 | | 1 | 7/2/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 315 | | 10 | 7/2/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 1282 | | 10 | 7/9/2015 | LJ |
| Boron, Dissolved | EPA200.7 | mg/L | 0.69 | | 0.5 | 7/1/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 4.2 | | 1 | 7/1/2015 | HM |
| Calcium | EPA200.7 | mg/L | 209 | | 5 | 7/1/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 242 | | 5 | 7/1/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 7/10/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 7/9/2015 | LJ |
| Chloride, Dissolved | EPA300.0 | mg/L | 1199 | | 10 | 7/1/2015 | HM |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 7/6/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 175 | | 75.0 | 7/2/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 100 | 7/1/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 7/8/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 7/8/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 7/9/2015 | BSK |
| Dissolved Phosphorus | EPA 365.1 | mg/L | 1.4 | E | 0.040 | 7/22/2015 | MCCAM |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 7/5/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | Not Detected | | 1 | 7/1/2015 | HM |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 7/6/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 1218 | | 10 | 7/6/2015 | TC |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 7/9/2015 | LJ |
| Iodide | EPA9056M | µg/L | 500 | | 50 | 7/2/2015 | WECK |
| Iron | EPA200.7 | µg/L | 6964 | | 100 | 7/1/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | 6300 | | 100 | 7/1/2015 | MW |
| Kjeldahl Nitrogen, Dissolved | SM 4500 B, D | mg/L | 6.12 | | 0.10 | 7/9/2015 | TC |
| Lithium | EPA200.8 | µg/L | 23 | | 1 | 7/2/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 169 | | 5 | 7/1/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|------------------------------------|-------------|----------|--------------|------|-----------|-----|
| Magnesium, Dissolved | EPA200.7 | mg/L | 161 | 5 | 7/1/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 4920 | 100 | 7/1/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 5140 | 100 | 7/1/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | 0.05 | 7/2/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | Not Detected | 10 | 7/1/2015 | HM |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 2.5 | 1.00 | 7/1/2015 | HM |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 2.5 | 1 | 7/1/2015 | HM |
| Odor Threshold at 60 C | SM2150B | TON | 2 | 1 | 7/2/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 1.34 | 0.02 | 7/2/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.06 | | 6/30/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.1 | 0.1 | 6/30/2015 | LRH |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 7/10/2015 | BSK |
| Potassium | EPA200.7 | mg/L | 14 | 5 | 7/1/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 12.8 | 5 | 7/1/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.60 | | 7/7/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 7/10/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 43 | 5 | 7/1/2015 | MW |
| Sodium | EPA200.7 | mg/L | 732 | 5 | 7/1/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 698 | 5 | 7/1/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 5330 | 1 | 7/1/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 5384 | 1 | 6/30/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 3064 | 5 | 7/2/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 210 | 10 | 7/1/2015 | HM |
| Temperature (Field) | SM2550 | ° C | 17.3 | | 6/30/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 3204 | 10 | 7/1/2015 | HM |
| Turbidity | EPA180.1 | NTU | 55 | 0.1 | 7/2/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.82 | 0.05 | 6/30/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Attached | E | 7/7/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | 100 | 7/1/2015 | MW |

Sample Comments: Odor: Earthy

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 32527 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 732 | 0.04350 | 31.84 |
| Potassium | 14 | 0.02558 | 0.36 |
| Calcium | 209 | 0.04990 | 10.43 |
| Magnesium | 169 | 0.08229 | 13.91 |
| NH3-N | 2.83 | 0.07143 | 0.20 |
| | | SUM | 56.74 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 1051 | 0.02000 | 21.02 |
| Sulfate | 210 | 0.02082 | 4.37 |
| Chloride | 1199 | 0.02821 | 33.82 |
| Nitrate-Nitrogen | 0 | 0.07138 | 0.00 |
| Phosphate-P | 1.40 | 0.01031 | 0.01 |
| Bromide | 4.2 | 0.01252 | 0.05 |
| | | SUM | 59.28 |

ANION-CATION BALANC -2 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|------|
| Conductivity | 5330 | |
| Cation Sum X 100 | 5674 | 106% |
| Anion Sum X 100 | 5928 | 111% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 698 | 0.04350 | 30.36 |
| Potassium | 12.8 | 0.02558 | 0.33 |
| Calcium | 242 | 0.04990 | 12.08 |
| Magnesium | 161 | 0.08229 | 13.25 |
| NH3-N | 2.83 | 0.07143 | 0.20 |
| | | SUM | 56.22 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 1051 | 0.02000 | 21.02 |
| Sulfate | 210 | 0.02082 | 4.37 |
| Chloride | 1199 | 0.02821 | 33.82 |
| Nitrate-Nitrogen | 0 | 0.07138 | 0.00 |
| Phosphate-P | 1.40 | 0.01031 | 0.01 |
| Bromide | 4.2 | 0.01252 | 0.05 |
| | | SUM | 59.28 |

ANION-CATION BA -3 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|------|------|
| Conductivity | 5330 | |
| Cation Sum X 100 | 5622 | 105% |
| Anion Sum X 100 | 5928 | 111% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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Color QC Summary (SM 2120B)

Date Analyzed: 7/2/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 10:40 |
| ICV | 5 | 5 | 100 | 80-120 | 10:40 |
| CCV | 5 | 5 | 100 | 80-120 | 10:40 |
| CCVB | --- | <3 | --- | <3 | 10:40 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria %RPD | Time |
|-----------|----------------------|--------------------------|-------|--------------------------|-------|
| AB32527 | 175 | 175 | 0.0 | 10 | 14:32 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 7/2/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.003 | --- | <0.05 | 856 |
| ICVL | 0.050 | 0.046 | 92 | 80-120 | 858 |
| ICV | 0.250 | 0.243 | 97.2 | 80-120 | 1005 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32611 | 0.008 | 0.250 | 0.226 | 0.241 | 87.2 | 93.2 | 6.4 | 80/120 | 10 | 938 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 7/9/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.02 | --- | <0.05 | |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | |
| ICV | 0.500 | 0.460 | 92.00% | 90-110 | |
| CCVB1 | --- | 0.04 | --- | <0.05 | |
| CCV1 | 0.500 | 0.450 | 90.00% | 90-110 | |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32250 | 0.140 | 0.500 | 0.620 | 0.620 | 96 | 96 | 0.0 | 85-120 | 10 | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 7/2/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|-------|
| ICVB | --- | <0.01 | --- | < 0.01 | 11:34 |
| LCSL | 0.01 | 0.01 | 100 | 50-150 | 11:34 |
| ICV | 0.30 | 0.30 | 100 | 90-110 | 11:34 |
| QCS | 0.30 | 0.30 | 100 | 80-120 | 11:34 |
| CCV | 0.30 | 0.29 | 96.7 | 80-120 | 11:34 |
| CCVB | --- | <0.001 | --- | < 0.01 | 11:34 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|---------------|---------------|-----------|------------|----------|-----------|--------------|-----------------------|-----|---------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB32527 | 0.68 | 0.30 | 0.96 | 0.96 | 93 | 93 | 0 | 70-130 | 10 | 11:34 | 11:34 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 6/30/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|------|
| ICV | 6.86 | 6.88 | 100.3 | 95-105 | 1650 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|------|
| AB32527 | 7.1 | 7.1 | 0 | 10 | 1650 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 7/1/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|-------|-----------------------------|------|
| ICV | 1412 | 1411 | 99.9% | 95-105 | 1115 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB32534 | 1889 | 1875 | 0.7% | 10 | 1140 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 7/1/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|-----------------------|------|
| ICVB | --- | 8 | --- | <10 | 1350 |
| ICVL | 100 | 114 | 114 | 80-120 | 1350 |
| ICV | 500 | 500 | 100 | 90-110 | 1350 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|---------------------------|------|
| AB32540 | 16700 | 16300 | 2.4 | 10 | 1515 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen by Electrode QC Summary (SM 4500-NH3 B,D)

Date: 7/9/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.02 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.460 | 92.00% | 90-110 | 1100 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32250 | 0.140 | 0.500 | 0.620 | 0.620 | 96 | 96 | 0.0 | 85-120 | 10 | 1130 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 7/2/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|-------|--------------------------|------|
| ICVB | --- | <0.05 | --- | <0.05 | 9:16 |
| ICV | 1.00 | 1.0 | 101% | 95-105 | 9:16 |
| CCVB | --- | <0.05 | --- | <0.05 | 9:16 |
| CCV | 1.00 | 0.96 | 96.0% | 95-105 | 9:16 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB32611 | 0.300 | 0.300 | 0.00% | 10 | 9:16 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
AB32527 D

Date Analyzed
Thursday, July 02, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Beryllium | 0.0 | 101.2 | 0.02 | 121.1 | 138.2 | 0.13 | 0.0 | 50 | 91.0 | 86.1 | 5.5 | 96.7 | 96.2 | 0.60 | 0.00 |
| Aluminum | 0.0 | 96.9 | 6.19 | 119.2 | 134.9 | 0.12 | 5.2 | 50 | 83.6 | 79.1 | 5.5 | 94.6 | 96.2 | 1.60 | 0.18 |
| Arsenic | 0.1 | 97.6 | -0.30 | 99.7 | 113.1 | 0.13 | 14.2 | 50 | 144.7 | 134.0 | 7.7 | 99.0 | 95.5 | 3.60 | 0.03 |
| Strontium | 0.0 | 99.5 | 0.02 | 102.1 | 115.1 | 0.12 | 2064.4 | 50 | 290.8 | 29.5 | 163.2 | 96.9 | 97.6 | 0.63 | 0.00 |
| Barium | 0.0 | 98.9 | 0.03 | 99.7 | 112.2 | 0.12 | 314.7 | 50 | 122.6 | 85.0 | 36.2 | 95.3 | 96.3 | 1.03 | 0.01 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference

4 Justin Court Ste D, Monterey, CA 93940

831.375.MBAS (6227), 831.641.0734 (Fax)

MontereyBayAnalytical@usa.net

<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID:

20150701

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.00 | 0.01 | 0.04 | 0.00 | 0.09 | 0.00 |
| ICV | 1.95 | 20.24 | 2.03 | 20.45 | 1.84 | 1.92 |
| Rec 90-110% | 97.28 | 101.21 | 101.26 | 102.27 | 91.90 | 95.82 |
| ICVL | 0.19 | 1.78 | 0.20 | 1.13 | 0.23 | 0.21 |
| Rec 50-150% | 95.34 | 89.18 | 97.81 | 56.73 | 112.69 | 105.17 |
| Sample ID AB32532 | 0.15 | 111.48 | 0.35 | 41.05 | 0.32 | 0.00 |
| MS | 2.00 | 130.77 | 2.34 | 59.10 | 2.17 | 1.85 |
| Rec 80-120% | 92.75 | 96.43 | 99.28 | 90.22 | 92.48 | 92.52 |
| MSD | 1.99 | 130.85 | 2.34 | 59.01 | 2.17 | 1.83 |
| Rec 80-120% | 92.09 | 96.83 | 99.12 | 89.81 | 92.44 | 91.73 |
| Diff 10% | 0.66 | 0.06 | 0.14 | 0.14 | 0.04 | 0.86 |
| CCV | 1.96 | 20.23 | 2.03 | 20.46 | 1.85 | 1.92 |
| Rec 90-110% | 98.02 | 101.14 | 101.59 | 102.32 | 92.26 | 96.22 |
| Diff 10% | 0.76 | 0.07 | 0.32 | 0.05 | 0.40 | 0.42 |
| CCVB | 0.00 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 |

Batch # 20150701b

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.00 | 1.02 | 101.6% | 1.04 | 104.0% | 2.4% | 1 | 1.00 | 100.0% | 1 | 1.0 | 99.8% |
| B 249.772 | 0.05-5ppm | 0.01 | 0.01 | 1.01 | 101.2% | 1.04 | 104.4% | 3.2% | 1 | 1.00 | 100.4% | 1 | 1.0 | 99.5% |
| Ca 317.933 | 50-300ppm | -5.93 | -5.98 | 49.8 | 99.6% | 50.2 | 100.4% | 0.8% | 50 | 48.1 | 96.2% | 50 | 47.1 | 94.2% |
| Ca 396.847 | 0.5-50ppm | -0.36 | -0.41 | 50.3 | 100.6% | 46.6 | 93.2% | 7.7% | 50 | 49.7 | 99.4% | 50 | 49.2 | 98.4% |
| Cu 324.754 | 10ppb-100ppm | 2.20 | 1.43 | 1021 | 102.1% | 1046 | 104.6% | 2.5% | 1000 | 1000 | 100.0% | 1000 | 988.1 | 98.8% |
| Cu 327.395 | 10ppb-100ppm | 3.47 | 4.69 | 1027 | 102.7% | 1047 | 104.7% | 1.9% | 1000 | 996 | 99.6% | 1000 | 985.3 | 98.5% |
| Fe 238.204 | 10ppb-100ppm | 2.22 | 1.05 | 1010 | 101.0% | 1029 | 102.9% | 2.0% | 1000 | 1004 | 100.4% | 1000 | 995.1 | 99.5% |
| Fe 259.940 | 10ppb-100ppm | 3.07 | 6.13 | 997 | 99.7% | 1017 | 101.7% | 2.0% | 1000 | 992 | 99.2% | 1000 | 988.1 | 98.8% |
| K 766.491 | 0.5-750ppm | -0.07 | -0.08 | 10.0 | 100.1% | 10.3 | 103.1% | 2.9% | 10 | 9.9 | 98.7% | 10 | 9.8 | 97.8% |
| Mg 202.582 | 50-1000ppm | -2.15 | -2.19 | 50.7 | 101.3% | 51.7 | 103.3% | 2.0% | 50 | 49.9 | 99.8% | 50 | 49.4 | 98.9% |
| Mg 279.078 | 0.5-50ppm | 0.24 | 0.18 | 50.4 | 100.9% | 51.7 | 103.3% | 2.4% | 50 | 49.9 | 99.7% | 50 | 49.4 | 98.8% |
| Mn 257.610 | 10ppb-11ppm | 2.97 | 1.96 | 1012 | 101.2% | 1027 | 102.7% | 1.5% | 1000 | 995 | 99.5% | 1000 | 996.9 | 99.7% |
| Mn 260.568 | 10ppb-11ppm | 2.02 | 1.43 | 1009 | 100.9% | 1029 | 102.9% | 1.9% | 1000 | 994 | 99.4% | 1000 | 995.0 | 99.5% |
| Na 568.821 | 50-1000ppm | 0.53 | 0.59 | 49.6 | 99.1% | 50.4 | 100.8% | 1.7% | 50 | 48.9 | 97.8% | 50 | 48.9 | 97.8% |
| Na 589.592 | 0.5-50ppm | 0.27 | 0.23 | 49.8 | 99.5% | 51.8 | 103.5% | 3.9% | 50 | 49.5 | 98.9% | 50 | 49.3 | 98.5% |
| Si 251.611 | 0.5-200ppm | 0.30 | 0.12 | 50.4 | 100.9% | 51.4 | 102.7% | 1.8% | 50 | 50.0 | 100.0% | 50 | 50.1 | 100.3% |
| Si 252.411 | 0.5-200ppm | 0.33 | 0.15 | 50.3 | 100.6% | 51.2 | 102.4% | 1.8% | 50 | 50.1 | 100.2% | 50 | 50.2 | 100.4% |
| Zn 213.857 | 10ppb-50ppm | -4.67 | -5.37 | 1005 | 100.5% | 1013 | 101.3% | 0.8% | 1000 | 988 | 98.8% | 1000 | 989.3 | 98.9% |

Sample ID AB32495

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|-------|-------|-------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.14 | 1.12 | 97.6% | 1.11 | 96.7% | 0.8% | 1 | 0.98 | 98.4% | 1.6% | 0.01 |
| B 249.772 | 0.14 | 1.11 | 96.5% | 1.11 | 97.2% | 0.6% | 1 | 0.98 | 98.4% | 2.1% | 0.00 |
| Ca 317.933 | 22.7 | 74.2 | 103.1% | 73.5 | 101.6% | 1.0% | 50 | 47.4 | 94.9% | 1.4% | -5.96 |
| Ca 396.847 | 27.3 | 71.1 | 87.6% | 70.6 | 86.7% | 0.6% | 50 | 49.2 | 98.3% | 1.1% | -0.39 |
| Cu 324.754 | 4 | 967 | 96.3% | 968 | 96.4% | 0.1% | 1000 | 980 | 98.0% | 2.0% | 1.60 |
| Cu 327.395 | 7 | 973 | 96.7% | 965 | 95.9% | 0.9% | 1000 | 974 | 97.4% | 2.2% | 4.74 |
| Fe 238.204 | 16 | 981 | 96.5% | 978 | 96.2% | 0.3% | 1000 | 983 | 98.3% | 2.1% | 1.47 |
| Fe 259.940 | 18 | 978 | 96.1% | 982 | 96.4% | 0.3% | 1000 | 984 | 98.4% | 0.8% | 2.60 |
| K 766.491 | 1.1 | 10.8 | 97.4% | 10.8 | 97.6% | 0.3% | 10 | 9.9 | 98.6% | 0.1% | -0.07 |
| Mg 202.582 | 6.4 | 56.3 | 99.8% | 56.4 | 100.1% | 0.2% | 50 | 48.6 | 97.3% | 2.5% | -2.18 |
| Mg 279.078 | 8.5 | 56.5 | 95.9% | 56.3 | 95.5% | 0.4% | 50 | 49.4 | 98.7% | 1.0% | 0.18 |
| Mn 257.610 | 10 | 966 | 95.6% | 967 | 95.7% | 0.1% | 1000 | 978 | 97.8% | 1.8% | 2.27 |
| Mn 260.568 | 10 | 969 | 95.9% | 967 | 95.6% | 0.3% | 1000 | 977 | 97.7% | 1.7% | 1.62 |
| Na 568.821 | 43.6 | 91.7 | 96.2% | 91.3 | 95.4% | 0.4% | 50 | 47.8 | 95.6% | 2.3% | 0.26 |
| Na 589.592 | 45.2 | 91.4 | 92.4% | 90.6 | 90.8% | 0.9% | 50 | 48.9 | 97.8% | 1.1% | 0.25 |
| Si 251.611 | 9.3 | 57.1 | 95.6% | 56.8 | 95.0% | 0.5% | 50 | 49.4 | 98.9% | 1.1% | 0.13 |
| Si 252.411 | 9.4 | 57.1 | 95.3% | 56.9 | 94.9% | 0.3% | 50 | 49.4 | 98.9% | 1.3% | 0.16 |
| Zn 213.857 | 620 | 1527 | 90.7% | 1523 | 90.3% | 0.2% | 1000 | 974 | 97.4% | 1% | -6.23 |



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5G0181

7/17/2015

Invoice: A514607

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5G0181 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/2/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an as received basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth, at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Kijuana Hartshorn, Project Coordinator



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 7/02/2015 - 08:00 Report Due: 7/17/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|---|
| Cooler: Default Cooler Temperature on Receipt °C: 3.1 | Containers Intact COC/Labels Agree Preservation Confirmed Received On Wet Ice Packing Material - Bubble Wrap Packing Material - Paper Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|---|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS1.2 Matrix spike recovery exceeds lower control limit. Reported results for parent matrix should be considered estimated due to matrix interferences.
- MS1.5 Matrix spike recovery exceeds upper control limit. No material impact as sample results are Non-Detected.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5G0181-01
Sampled By: Matan Salmon
Sample Description: MW-9S (monitoring) // AB32527

Sample Date - Time: 06/30/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A507410 | 07/06/15 | 07/08/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A507410 | 07/06/15 | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 101 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507601 | 07/08/15 | 07/10/15 | |
| Surrogate: DCPAA | EPA 515.3 | 105 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |

Certificate of Analysis

Sample ID: A5G0181-01
Sampled By: Matan Salmon
Sample Description: MW-9S (monitoring) // AB32527

Sample Date - Time: 06/30/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|----------------------------|-------|---------|---------|----------|----------|------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Toluene | EPA 524.2 | 1.6 | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507414 | 07/06/15 | 07/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 97 % | Acceptable range: 70-130 % | | | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 95 % | Acceptable range: 70-130 % | | | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5G0181-01
Sampled By: Matan Salmon
Sample Description: MW-9S (monitoring) // AB32527

Sample Date - Time: 06/30/15 - 15:00
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|--------------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | MS1.2 |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | MS1.2 |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | BS1.0, MS1.5 |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | MS1.2 |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507524 | 07/08/15 | 07/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 90 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507340 | 07/01/15 | 07/10/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A507422 | 07/06/15 | 07/06/15 | |
| Surrogate: AMPA | EPA 547 | 88 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A507403 | 07/02/15 | 07/05/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A507404 | 07/02/15 | 07/09/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A507410

Prepared: 7/6/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A507410-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 07/08/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.46 | | 100 | 70-130 | | | 07/08/15 | |

Blank Spike (A507410-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 96 | 70-130 | | | 07/08/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 91 | 70-130 | | | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.44 | | | 0.46 | | 97 | 70-130 | | | 07/08/15 | |

Blank Spike Dup (A507410-bsd1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 97 | 70-130 | 1 | 20 | 07/08/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 89 | 70-130 | 2 | 20 | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.45 | | | 0.46 | | 98 | 70-130 | | | 07/08/15 | |

Matrix Spike (A507410-MS1), Source: A5G0173-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | ND | 93 | 65-135 | | | 07/08/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | ND | 92 | 65-135 | | | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.41 | | | 0.46 | | 90 | 70-130 | | | 07/08/15 | |

Matrix Spike Dup (A507410-MSD1), Source: A5G0173-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | ND | 93 | 65-135 | 3 | 20 | 07/08/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 99 | 65-135 | 9 | 20 | 07/08/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.43 | | | 0.47 | | 92 | 70-130 | | | 07/08/15 | |

EPA 515.3 - Quality Control

Batch: A507601

Prepared: 7/8/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A507601-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 07/10/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 07/10/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 07/10/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 07/10/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 07/10/15 | |

Blank Spike (A507601-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | | 109 | 70-130 | | | 07/10/15 | |
| 2,4,5-TP (Silvex) | 0.82 | 1.0 | ug/L | 0.80 | | 102 | 70-130 | | | 07/10/15 | |
| 2,4-D | 0.45 | 10 | ug/L | 0.40 | | 112 | 70-130 | | | 07/10/15 | |
| Bentazon | 8.3 | 2.0 | ug/L | 8.0 | | 103 | 70-130 | | | 07/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A507601

Prepared: 7/8/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A507601-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.1 | 10 | ug/L | 4.0 | | 102 | 70-130 | | | 07/10/15 | |
| Dicamba | 6.6 | 1.5 | ug/L | 6.0 | | 110 | 70-130 | | | 07/10/15 | |
| Dinoseb | 0.82 | 2.0 | ug/L | 0.80 | | 103 | 70-130 | | | 07/10/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | | 106 | 70-130 | | | 07/10/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 99 | 70-130 | | | 07/10/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 07/10/15 | |

Blank Spike Dup (A507601-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|----|----|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | 1 | 20 | 07/10/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | | 104 | 70-130 | 2 | 20 | 07/10/15 | |
| 2,4-D | 0.48 | 10 | ug/L | 0.40 | | 120 | 70-130 | 8 | 20 | 07/10/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | | 102 | 70-130 | 2 | 20 | 07/10/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | | 108 | 70-130 | 6 | 20 | 07/10/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | | 108 | 70-130 | 2 | 20 | 07/10/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 104 | 70-130 | 1 | 20 | 07/10/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | | 104 | 70-130 | 2 | 20 | 07/10/15 | |
| Picloram | 0.45 | 1.0 | ug/L | 0.40 | | 111 | 70-130 | 12 | 20 | 07/10/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 102 | 70-130 | | | 07/10/15 | |

Matrix Spike (A507601-MS1), Source: A5G0173-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | ND | 107 | 70-130 | | | 07/10/15 | |
| 2,4,5-TP (Silvex) | 0.83 | 1.0 | ug/L | 0.80 | ND | 104 | 70-130 | | | 07/10/15 | |
| 2,4-D | 0.48 | 10 | ug/L | 0.40 | ND | 119 | 70-130 | | | 07/10/15 | |
| Bentazon | 7.6 | 2.0 | ug/L | 8.0 | ND | 95 | 70-130 | | | 07/10/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | ND | 107 | 70-130 | | | 07/10/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | ND | 108 | 70-130 | | | 07/10/15 | |
| Dinoseb | 0.82 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | | | 07/10/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 103 | 70-130 | | | 07/10/15 | |
| Picloram | 0.43 | 1.0 | ug/L | 0.40 | ND | 108 | 70-130 | | | 07/10/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 100 | 70-130 | | | 07/10/15 | |

Matrix Spike Dup (A507601-MSD1), Source: A5G0173-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|---|----|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | ND | 107 | 70-130 | 0 | 20 | 07/10/15 | |
| 2,4,5-TP (Silvex) | 0.78 | 1.0 | ug/L | 0.80 | ND | 98 | 70-130 | 6 | 20 | 07/10/15 | |
| 2,4-D | 0.47 | 10 | ug/L | 0.40 | ND | 117 | 70-130 | 2 | 20 | 07/10/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | ND | 103 | 70-130 | 8 | 20 | 07/10/15 | |
| Dalapon | 4.3 | 10 | ug/L | 4.0 | ND | 106 | 70-130 | 1 | 20 | 07/10/15 | |
| Dicamba | 6.5 | 1.5 | ug/L | 6.0 | ND | 109 | 70-130 | 0 | 20 | 07/10/15 | |
| Dinoseb | 0.80 | 2.0 | ug/L | 0.80 | ND | 101 | 70-130 | 1 | 20 | 07/10/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | ND | 102 | 70-130 | 1 | 20 | 07/10/15 | |
| Picloram | 0.43 | 1.0 | ug/L | 0.40 | ND | 109 | 70-130 | 0 | 20 | 07/10/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 07/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507414-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 07/07/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 07/07/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 07/07/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 07/07/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 07/07/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 07/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507414-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 07/07/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 07/07/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 07/07/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 07/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 47 | | | 50 | | 94 | 70-130 | | | 07/07/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 95 | 70-130 | | | 07/07/15 | |

Blank Spike (A507414-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |
| 1,1,2-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 105 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 07/07/15 | |
| 1,2,4-Trichlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/07/15 | |
| 1,2,4-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 1,2-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 1,2-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| 1,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| 1,3,5-Trimethylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| 1,3-Dichlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| 1,3-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 07/07/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507414-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 2-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 4-Chlorotoluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Acetone | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| Benzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Bromobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| Bromochloromethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 07/07/15 | |
| Bromodichloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| Bromoform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/07/15 | |
| Bromomethane | 12 | 0.50 | ug/L | 10 | | 119 | 70-130 | | | 07/07/15 | |
| Carbon disulfide | 11 | 10 | ug/L | 10 | | 106 | 70-130 | | | 07/07/15 | |
| Carbon Tetrachloride | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 07/07/15 | |
| Chlorobenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| Chloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| Chloroform | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| Chloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| Dibromomethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 114 | 70-130 | | | 07/07/15 | |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 07/07/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/07/15 | |
| Ethylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| Hexachlorobutadiene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 07/07/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 101 | 70-130 | | | 07/07/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/07/15 | |
| n-Butylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/07/15 | |
| n-Propylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| o-Xylene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| p-Isopropyltoluene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/07/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/07/15 | |
| Styrene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.9 | 3.0 | ug/L | 10 | | 99 | 70-130 | | | 07/07/15 | |
| tert-Butyl alcohol (TBA) | 9.5 | 2.0 | ug/L | 10 | | 95 | 70-130 | | | 07/07/15 | |
| tert-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/07/15 | |
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Toluene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/07/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/07/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507414-BS1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| Trichlorofluoromethane | 9.7 | 5.0 | ug/L | 10 | | 97 | 70-130 | | | 07/07/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 07/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 50 | | | 50 | | 99 | 70-130 | | | 07/07/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 98 | 70-130 | | | 07/07/15 | |

Blank Spike Dup (A507414-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/07/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 07/07/15 | |
| 1,1,2,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | 10 | ug/L | 10 | | 105 | 70-130 | 1 | 30 | 07/07/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,1-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| 1,1-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 07/07/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 07/07/15 | |
| 1,2,3-Trichlorobenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 3 | 30 | 07/07/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,2,4-Trimethylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/07/15 | |
| 1,2-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/07/15 | |
| 1,2-Dichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,3,5-Trimethylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 4 | 30 | 07/07/15 | |
| 1,3-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/07/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| 1,4-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/07/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 07/07/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | | 102 | 70-130 | 3 | 30 | 07/07/15 | |
| 2-Chlorotoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/07/15 | |
| 2-Hexanone | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| 4-Chlorotoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/07/15 | |
| 4-Methyl-2-pentanone | 9.9 | 5.0 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| Acetone | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| Benzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| Bromobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/07/15 | |
| Bromochloromethane | 9.0 | 0.50 | ug/L | 10 | | 90 | 70-130 | 3 | 30 | 07/07/15 | |
| Bromodichloromethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/07/15 | |
| Bromoform | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | 5 | 30 | 07/07/15 | |
| Bromomethane | 11 | 0.50 | ug/L | 10 | | 113 | 70-130 | 5 | 30 | 07/07/15 | |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 105 | 70-130 | 2 | 30 | 07/07/15 | |
| Carbon Tetrachloride | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | 1 | 30 | 07/07/15 | |
| Chlorobenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/07/15 | |
| Chloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| Chloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/07/15 | |
| cis-1,2-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| cis-1,3-Dichloropropene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A507414-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|--|
| Dibromochloromethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/07/15 | |
| Dibromomethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/07/15 | |
| Dichlorodifluoromethane | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | 4 | 30 | 07/07/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | 5 | 30 | 07/07/15 | |
| Di-isopropyl ether (DIPE) | 9.9 | 3.0 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| Ethylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| Hexachlorobutadiene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 07/07/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/07/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | 3 | 30 | 07/07/15 | |
| Naphthalene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 07/07/15 | |
| n-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/07/15 | |
| n-Propylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/07/15 | |
| o-Xylene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 3 | 30 | 07/07/15 | |
| p-Isopropyltoluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 07/07/15 | |
| sec-Butylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 4 | 30 | 07/07/15 | |
| Styrene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 4 | 30 | 07/07/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.8 | 3.0 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/07/15 | |
| tert-Butyl alcohol (TBA) | 9.2 | 2.0 | ug/L | 10 | | 92 | 70-130 | 3 | 30 | 07/07/15 | |
| tert-Butylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 07/07/15 | |
| Tetrachloroethene (PCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/07/15 | |
| Toluene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 07/07/15 | |
| trans-1,3-Dichloropropene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 3 | 30 | 07/07/15 | |
| Trichloroethene (TCE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/07/15 | |
| Trichlorofluoromethane | 9.7 | 5.0 | ug/L | 10 | | 97 | 70-130 | 0 | 30 | 07/07/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 109 | 70-130 | 1 | 30 | 07/07/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 97 | 70-130 | | | 07/07/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 97 | 70-130 | | | 07/07/15 | |

Matrix Spike (A507414-MS1), Source: A5G0177-01

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|----|----|--------|--|--|----------|-----------|
| 1,1,1,2-Tetrachloroethane | 8.4 | 0.50 | ug/L | 10 | ND | 84 | 70-130 | | | 07/07/15 | |
| 1,1,1-Trichloroethane | 9.3 | 0.50 | ug/L | 10 | ND | 93 | 70-130 | | | 07/07/15 | |
| 1,1,2,2-Tetrachloroethane | 8.3 | 0.50 | ug/L | 10 | ND | 83 | 70-130 | | | 07/07/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.0 | 10 | ug/L | 10 | ND | 90 | 70-130 | | | 07/07/15 | |
| 1,1,2-Trichloroethane | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloroethane | 8.9 | 0.50 | ug/L | 10 | ND | 89 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloroethene | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| 1,1-Dichloropropene | 7.8 | 0.50 | ug/L | 10 | ND | 78 | 70-130 | | | 07/07/15 | |
| 1,2,3-Trichlorobenzene | 8.2 | 0.50 | ug/L | 10 | ND | 82 | 70-130 | | | 07/07/15 | |
| 1,2,4-Trichlorobenzene | 7.8 | 0.50 | ug/L | 10 | ND | 78 | 70-130 | | | 07/07/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | 10 | ND | 0 | 70-130 | | | 07/07/15 | MS1.0 Low |
| 1,2-Dichlorobenzene | 8.1 | 0.50 | ug/L | 10 | ND | 81 | 70-130 | | | 07/07/15 | |
| 1,2-Dichloroethane | 8.7 | 0.50 | ug/L | 10 | ND | 87 | 70-130 | | | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507414-MS1), Source: A5G0177-01

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|------|-----|--------|--|--|----------|-----------|
| 1,2-Dichloropropane | 8.8 | 0.50 | ug/L | 10 | ND | 88 | 70-130 | | | 07/07/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | 10 | ND | 0 | 70-130 | | | 07/07/15 | MS1.0 Low |
| 1,3-Dichlorobenzene | 8.0 | 0.50 | ug/L | 10 | ND | 80 | 70-130 | | | 07/07/15 | |
| 1,3-Dichloropropane | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| 1,4-Dichlorobenzene | 8.0 | 0.50 | ug/L | 10 | ND | 80 | 70-130 | | | 07/07/15 | |
| 2,2-Dichloropropane | 9.0 | 0.50 | ug/L | 10 | ND | 90 | 70-130 | | | 07/07/15 | |
| 2-Butanone | 15 | 5.0 | ug/L | 10 | 5.1 | 96 | 70-130 | | | 07/07/15 | |
| 2-Chlorotoluene | 8.2 | 0.50 | ug/L | 10 | ND | 82 | 70-130 | | | 07/07/15 | |
| 2-Hexanone | 8.0 | 10 | ug/L | 10 | ND | 80 | 70-130 | | | 07/07/15 | |
| 4-Chlorotoluene | 7.1 | 0.50 | ug/L | 10 | ND | 71 | 70-130 | | | 07/07/15 | |
| 4-Methyl-2-pentanone | 8.2 | 5.0 | ug/L | 10 | ND | 82 | 70-130 | | | 07/07/15 | |
| Acetone | 13 | 10 | ug/L | 10 | ND | 57 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Benzene | 8.8 | 0.50 | ug/L | 10 | ND | 88 | 70-130 | | | 07/07/15 | |
| Bromobenzene | 7.9 | 0.50 | ug/L | 10 | ND | 79 | 70-130 | | | 07/07/15 | |
| Bromochloromethane | 7.9 | 0.50 | ug/L | 10 | ND | 79 | 70-130 | | | 07/07/15 | |
| Bromodichloromethane | 8.8 | 0.50 | ug/L | 10 | ND | 88 | 70-130 | | | 07/07/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | 2.9 | 77 | 70-130 | | | 07/07/15 | |
| Bromomethane | 5.4 | 0.50 | ug/L | 10 | ND | 54 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Carbon disulfide | 9.6 | 10 | ug/L | 10 | ND | 96 | 70-130 | | | 07/07/15 | |
| Carbon Tetrachloride | 9.6 | 0.50 | ug/L | 10 | ND | 96 | 70-130 | | | 07/07/15 | |
| Chlorobenzene | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| Chloroethane | 9.2 | 0.50 | ug/L | 10 | ND | 92 | 70-130 | | | 07/07/15 | |
| Chloroform | 8.8 | 0.50 | ug/L | 10 | ND | 88 | 70-130 | | | 07/07/15 | |
| Chloromethane | 10 | 0.50 | ug/L | 10 | ND | 102 | 70-130 | | | 07/07/15 | |
| cis-1,2-Dichloroethene | 8.9 | 0.50 | ug/L | 10 | ND | 89 | 70-130 | | | 07/07/15 | |
| cis-1,3-Dichloropropene | 6.5 | 0.50 | ug/L | 10 | ND | 65 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Dibromochloromethane | 9.4 | 0.50 | ug/L | 10 | 0.95 | 84 | 70-130 | | | 07/07/15 | |
| Dibromomethane | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| Dichlorodifluoromethane | 10 | 0.50 | ug/L | 10 | ND | 103 | 70-130 | | | 07/07/15 | |
| Dichloromethane | 9.5 | 0.50 | ug/L | 10 | ND | 95 | 70-130 | | | 07/07/15 | |
| Di-isopropyl ether (DIPE) | 8.6 | 3.0 | ug/L | 10 | ND | 86 | 70-130 | | | 07/07/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| Ethylbenzene | 6.1 | 0.50 | ug/L | 10 | ND | 61 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Hexachlorobutadiene | 8.5 | 0.50 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |
| Isopropylbenzene | 6.6 | 0.50 | ug/L | 10 | ND | 66 | 70-130 | | | 07/07/15 | MS1.0 Low |
| m,p-Xylenes | 3.5 | 0.50 | ug/L | 20 | ND | 18 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Methyl-t-butyl ether | 17 | 0.50 | ug/L | 20 | ND | 84 | 70-130 | | | 07/07/15 | |
| Naphthalene | 1.7 | 0.50 | ug/L | 10 | ND | 17 | 70-130 | | | 07/07/15 | MS1.0 Low |
| n-Butylbenzene | 5.7 | 0.50 | ug/L | 10 | ND | 57 | 70-130 | | | 07/07/15 | MS1.0 Low |
| n-Propylbenzene | 5.8 | 0.50 | ug/L | 10 | ND | 58 | 70-130 | | | 07/07/15 | MS1.0 Low |
| o-Xylene | 3.0 | 0.50 | ug/L | 10 | ND | 30 | 70-130 | | | 07/07/15 | MS1.0 Low |
| p-Isopropyltoluene | 3.3 | 0.50 | ug/L | 10 | ND | 33 | 70-130 | | | 07/07/15 | MS1.0 Low |
| sec-Butylbenzene | 6.3 | 0.50 | ug/L | 10 | ND | 63 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Styrene | ND | 0.50 | ug/L | 10 | ND | 0 | 70-130 | | | 07/07/15 | MS1.0 Low |
| tert-Amyl Methyl Ether (TAME) | 8.5 | 3.0 | ug/L | 10 | ND | 85 | 70-130 | | | 07/07/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507414

Prepared: 7/6/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507414-MS1), Source: A5G0177-01

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|-----|----|--------|--|--|----------|-----------|
| tert-Butyl alcohol (TBA) | 7.7 | 2.0 | ug/L | 10 | 2.2 | 55 | 70-130 | | | 07/07/15 | MS1.0 Low |
| tert-Butylbenzene | 6.8 | 0.50 | ug/L | 10 | ND | 68 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Tetrachloroethene (PCE) | 8.4 | 0.50 | ug/L | 10 | ND | 84 | 70-130 | | | 07/07/15 | |
| Toluene | 5.9 | 0.50 | ug/L | 10 | ND | 59 | 70-130 | | | 07/07/15 | MS1.0 Low |
| trans-1,2-Dichloroethene | 9.0 | 0.50 | ug/L | 10 | ND | 90 | 70-130 | | | 07/07/15 | |
| trans-1,3-Dichloropropene | 6.5 | 0.50 | ug/L | 10 | ND | 65 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Trichloroethene (TCE) | 8.7 | 0.50 | ug/L | 10 | ND | 87 | 70-130 | | | 07/07/15 | |
| Trichlorofluoromethane | 9.7 | 5.0 | ug/L | 10 | ND | 97 | 70-130 | | | 07/07/15 | |
| Vinyl Chloride | 2.8 | 0.50 | ug/L | 10 | ND | 28 | 70-130 | | | 07/07/15 | MS1.0 Low |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 98 | 70-130 | | | 07/07/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 97 | 70-130 | | | 07/07/15 | |

EPA 525.2 - Quality Control

Batch: A507524

Prepared: 7/8/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A507524-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 07/10/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 07/10/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 07/10/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 07/10/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 07/10/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 07/10/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 07/10/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 07/10/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 07/10/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 07/10/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 07/10/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 07/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.3 | | | 5.0 | | 105 | 70-130 | | | 07/10/15 | |

Blank Spike (A507524-BS1)

| | | | | | | | | | | | |
|-----------------------------|-------|------|------|------|--|-----|--------|--|--|----------|--|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 114 | 70-130 | | | 07/10/15 | |
| Atrazine | 0.60 | 0.50 | ug/L | 0.50 | | 121 | 70-130 | | | 07/10/15 | |
| Benzo(a)pyrene | 0.099 | 0.10 | ug/L | 0.10 | | 99 | 70-130 | | | 07/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.5 | 3.0 | ug/L | 2.0 | | 123 | 70-130 | | | 07/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.9 | 3.0 | ug/L | 1.5 | | 124 | 70-130 | | | 07/10/15 | |
| Bromacil | 1.3 | 10 | ug/L | 1.0 | | 128 | 70-130 | | | 07/10/15 | |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 112 | 70-130 | | | 07/10/15 | |
| Diazinon | 0.21 | 0.25 | ug/L | 0.20 | | 104 | 70-130 | | | 07/10/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 114 | 70-130 | | | 07/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507524

Prepared: 7/8/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank Spike (A507524-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Metolachlor | 2.4 | 0.50 | ug/L | 2.0 | | 119 | 70-130 | | | 07/10/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 117 | 70-130 | | | 07/10/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 110 | 70-130 | | | 07/10/15 | |
| Prometryn | 1.6 | 2.0 | ug/L | 2.0 | | 79 | 70-130 | | | 07/10/15 | |
| Propachlor | 0.58 | 0.50 | ug/L | 0.50 | | 116 | 70-130 | | | 07/10/15 | |
| Simazine | 0.41 | 1.0 | ug/L | 0.35 | | 116 | 70-130 | | | 07/10/15 | |
| Thiobencarb | 0.60 | 1.0 | ug/L | 0.50 | | 119 | 70-130 | | | 07/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 103 | 70-130 | | | 07/10/15 | |

Blank Spike Dup (A507524-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|---------|
| Alachlor | 1.2 | 1.0 | ug/L | 1.0 | | 117 | 70-130 | 2 | 30 | 07/10/15 | |
| Atrazine | 0.60 | 0.50 | ug/L | 0.50 | | 120 | 70-130 | 1 | 30 | 07/10/15 | |
| Benzo(a)pyrene | 0.10 | 0.10 | ug/L | 0.10 | | 101 | 70-130 | 2 | 30 | 07/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.4 | 3.0 | ug/L | 2.0 | | 118 | 70-130 | 5 | 30 | 07/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 113 | 70-130 | 9 | 30 | 07/10/15 | |
| Bromacil | 1.4 | 10 | ug/L | 1.0 | | 137 | 70-130 | 7 | 30 | 07/10/15 | BS High |
| Butachlor | 1.2 | 0.38 | ug/L | 1.0 | | 117 | 70-130 | 5 | 30 | 07/10/15 | |
| Diazinon | 0.22 | 0.25 | ug/L | 0.20 | | 108 | 70-130 | 4 | 30 | 07/10/15 | |
| Dimethoate | 1.2 | 10 | ug/L | 1.0 | | 120 | 70-130 | 6 | 30 | 07/10/15 | |
| Metolachlor | 2.4 | 0.50 | ug/L | 2.0 | | 121 | 70-130 | 2 | 30 | 07/10/15 | |
| Metribuzin | 1.3 | 0.50 | ug/L | 1.0 | | 126 | 70-130 | 7 | 30 | 07/10/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 114 | 70-130 | 3 | 30 | 07/10/15 | |
| Prometryn | 1.7 | 2.0 | ug/L | 2.0 | | 87 | 70-130 | 10 | 30 | 07/10/15 | |
| Propachlor | 0.56 | 0.50 | ug/L | 0.50 | | 112 | 70-130 | 4 | 30 | 07/10/15 | |
| Simazine | 0.38 | 1.0 | ug/L | 0.35 | | 109 | 70-130 | 6 | 30 | 07/10/15 | |
| Thiobencarb | 0.61 | 1.0 | ug/L | 0.50 | | 121 | 70-130 | 2 | 30 | 07/10/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 4.8 | | | 5.0 | | 95 | 70-130 | | | 07/10/15 | |

Matrix Spike (A507524-MS1), Source: A5G0181-01

| | | | | | | | | | | | |
|-----------------------------|------|------|------|-------|----|-----|--------|--|--|----------|------------|
| Alachlor | 0.60 | 1.0 | ug/L | 0.97 | ND | 62 | 70-130 | | | 07/10/15 | MS1.0 Low |
| Atrazine | 0.27 | 0.50 | ug/L | 0.49 | ND | 56 | 70-130 | | | 07/10/15 | MS1.0 Low |
| Benzo(a)pyrene | 0.12 | 0.10 | ug/L | 0.097 | ND | 111 | 70-130 | | | 07/10/15 | |
| Bis(2-ethylhexyl) adipate | 2.3 | 3.0 | ug/L | 1.9 | ND | 118 | 70-130 | | | 07/10/15 | |
| Bis(2-ethylhexyl) phthalate | 1.9 | 3.0 | ug/L | 1.5 | ND | 128 | 70-130 | | | 07/10/15 | |
| Bromacil | 1.4 | 10 | ug/L | 0.97 | ND | 140 | 70-130 | | | 07/10/15 | MS1.0 High |
| Butachlor | 0.68 | 0.38 | ug/L | 0.97 | ND | 70 | 70-130 | | | 07/10/15 | |
| Diazinon | 0.14 | 0.25 | ug/L | 0.19 | ND | 74 | 70-130 | | | 07/10/15 | |
| Dimethoate | 1.0 | 10 | ug/L | 0.97 | ND | 102 | 70-130 | | | 07/10/15 | |
| Metolachlor | 1.9 | 0.50 | ug/L | 1.9 | ND | 96 | 70-130 | | | 07/10/15 | |
| Metribuzin | 1.0 | 0.50 | ug/L | 0.97 | ND | 104 | 70-130 | | | 07/10/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 0.97 | ND | 118 | 70-130 | | | 07/10/15 | |
| Prometryn | 1.8 | 2.0 | ug/L | 1.9 | ND | 91 | 70-130 | | | 07/10/15 | |
| Propachlor | 0.56 | 0.50 | ug/L | 0.49 | ND | 116 | 70-130 | | | 07/10/15 | |
| Simazine | 0.18 | 1.0 | ug/L | 0.34 | ND | 52 | 70-130 | | | 07/10/15 | MS1.0 Low |
| Thiobencarb | 0.57 | 1.0 | ug/L | 0.49 | ND | 117 | 70-130 | | | 07/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507524

Prepared: 7/8/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A507524-MS1), Source: A5G0181-01

Surrogate: 1,3-Dimethyl-2-nitrobenzene 4.5 4.9 92 70-130 07/10/15

EPA 531.1 - Quality Control

Batch: A507340

Prepared: 7/1/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Blank (A507340-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 07/10/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 07/10/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 07/10/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 07/10/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 07/10/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 07/10/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 07/10/15 | |

Blank Spike (A507340-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 101 | 80-120 | | | 07/10/15 | |
| Aldicarb | 3.8 | 3.0 | ug/L | 4.0 | | 96 | 80-120 | | | 07/10/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 07/10/15 | |
| Aldicarb Sulfoxide | 3.9 | 3.0 | ug/L | 4.0 | | 98 | 80-120 | | | 07/10/15 | |
| Carbaryl | 4.0 | 5.0 | ug/L | 4.0 | | 99 | 80-120 | | | 07/10/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 101 | 80-120 | | | 07/10/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/10/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | | 109 | 80-120 | | | 07/10/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 99 | 80-120 | | | 07/10/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | | | 07/10/15 | |

Blank Spike Dup (A507340-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | | 104 | 80-120 | 3 | 20 | 07/10/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | | 93 | 80-120 | 3 | 20 | 07/10/15 | |
| Aldicarb Sulfone | 4.1 | 2.0 | ug/L | 4.0 | | 103 | 80-120 | 3 | 20 | 07/10/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | | 102 | 80-120 | 5 | 20 | 07/10/15 | |
| Carbaryl | 4.0 | 5.0 | ug/L | 4.0 | | 101 | 80-120 | 2 | 20 | 07/10/15 | |
| Carbofuran | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | 1 | 20 | 07/10/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | 0 | 20 | 07/10/15 | |
| Methomyl | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | 12 | 20 | 07/10/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 104 | 80-120 | 5 | 20 | 07/10/15 | |
| Propoxur | 4.2 | 2.0 | ug/L | 4.0 | | 105 | 80-120 | 5 | 20 | 07/10/15 | |

Duplicate (A507340-DUP1), Source: A5G0053-01

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|----|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | ND | | | | | 07/10/15 | |
| Aldicarb | ND | 3.0 | ug/L | | ND | | | | | 07/10/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A507340

Prepared: 7/1/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Duplicate (A507340-DUP1), Source: A5G0053-01

| | | | | | | | | | | | |
|--------------------|----|-----|------|--|----|--|--|--|--|----------|--|
| Aldicarb Sulfone | ND | 2.0 | ug/L | | ND | | | | | 07/10/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | ND | | | | | 07/10/15 | |
| Carbaryl | ND | 5.0 | ug/L | | ND | | | | | 07/10/15 | |
| Carbofuran | ND | 5.0 | ug/L | | ND | | | | | 07/10/15 | |
| Methiocarb | ND | 2.0 | ug/L | | ND | | | | | 07/10/15 | |
| Methomyl | ND | 2.0 | ug/L | | ND | | | | | 07/10/15 | |
| Oxamyl | ND | 20 | ug/L | | ND | | | | | 07/10/15 | |
| Propoxur | ND | 2.0 | ug/L | | ND | | | | | 07/10/15 | |

EPA 547 - Quality Control

Batch: A507422

Prepared: 7/6/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A507422-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike (A507422-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 91 | 25 | ug/L | 100 | | 91 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike Dup (A507422-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | | 117 | 70-130 | 25 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

Matrix Spike (A507422-MS1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|----|----|--------|--|--|----------|--|
| Glyphosate | 88 | 25 | ug/L | 100 | ND | 87 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 96 | | | 100 | | 94 | 70-130 | | | 07/06/15 | |

Matrix Spike Dup (A507422-MSD1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | ND | 114 | 70-130 | 27 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 7/2/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A507403-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 07/05/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507403-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 92 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507403-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|
| Endothall | 22 | 45 | ug/L | 20 | | 110 | 46-116 | 18 | 30 | 07/05/15 | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 7/2/2015

Prep Method: EPA 548.1

Analyst: MTM

Matrix Spike (A507403-MS1), Source: A5F2319-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|
| Endothall | 20 | 45 | ug/L | 20 | ND | 98 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|

EPA 549.2 - Quality Control

Batch: A507404

Prepared: 7/2/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A507404-BLK1)

| | | | | | | | | | | | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 0.40 | ug/L | | | | | | | 07/09/15 | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507404-BS1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.6 | 0.40 | ug/L | 4.0 | | 90 | 70-130 | | | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507404-BSD1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.5 | 0.40 | ug/L | 4.0 | | 88 | 70-130 | 2 | 30 | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5G0181



07022015

Monte6227

Turnaround: Standard

Due Date: 7/17/2015



Monterey Bay Analytical



BSK Associates & Laboratories

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

9.1

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A5G0181
 Monte6227



07/02/2015
 10

*Required Fields

Temp:

Company/Client Name*: **Monterey Bay Analytical Services** Report Attention*: **Mason Weidner-Holland** Invoice To*: **David Holland** Phone*: **831-375-6227** Fax: **831-641-0734**
 Address*: **4 Justin Court, Suite D** City*: **Monterey** State*: **CA** Zip*: **93940** E-mail: **mweidner@mbasin.com, dholland@mbasin.com**
 Project: **Cal Air** Project #: _____ How would you like to receive your completed results? E-Mail Fax Mail
 Reporting Options: Trace (-Flag) Swamp EDD Type: _____ Regulatory Carbon Copies: SWRCB (Drinking Water) Fresno Co Madera Co Tulare Co
 Sampler Name (Printed/Signature)*: **Matan Salmon** Other: Geotracker #: _____ EDT to California SWRCB (Drinking Water) System Number*: _____
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

| # | Sample Description* | Sampled* | | Matrix* | Comments / Station Code / WTRPAX | EPA 524 | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|---|---------------------|----------|------|---------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Date | Time | | | | | | | | | | |
| 1 | MW-9S (monitoring) | 6/30/15 | 1500 | GW | AB32527 | X | X | X | X | X | X | X | X |

Relinquished by: (Signature and Printed Name) **D. Holland** Company **MBAS** Date **7/1/15** Time **1600** Received by: (Signature and Printed Name) _____
 Relinquished by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____ Received by: (Signature and Printed Name) _____
 Shipping Method: UPS GSO WALK-IN FED EX Courier: _____
 Cooling Method: Wet Blue None

Payment for services rendered is noted herein and due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLABTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

| | | | | |
|-----------------|---|--|---|--|
| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ <u>3.1</u> | Yes <input checked="" type="radio"/> No <input type="radio"/> NA | Were correct containers and preservatives received for the tests requested? | Yes <input checked="" type="radio"/> No <input type="radio"/> NA |
| | If samples were taken today, is there evidence that chilling has begun? | Yes <input type="radio"/> No <input checked="" type="radio"/> NA | Were there bubbles in the VOA vials? (Volatiles Only) | Yes <input type="radio"/> No <input checked="" type="radio"/> NA |
| | Did all bottles arrive unbroken and intact? | Yes <input checked="" type="radio"/> No <input type="radio"/> | Was a sufficient amount of sample received? | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| | Did all bottle labels agree with COC? | Yes <input checked="" type="radio"/> No <input type="radio"/> | Do samples have a hold time <72 hours? | Yes <input type="radio"/> No <input checked="" type="radio"/> |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | Yes <input type="radio"/> No <input checked="" type="radio"/> NA | Was PM notified of discrepancies? PM: _____ By/Time: _____ | Yes <input type="radio"/> No <input checked="" type="radio"/> NA |

| Bottles Received | Description | Checks | | Notes |
|------------------|---|-------------|---------|-------|
| | | Passed? | Failed? | |
| | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | | | |
| | Bacti Na ₂ S ₂ O ₃ | — | — | |
| | None (P) ^{White Cap} | — | — | |
| | Cr6 (P) ^{Br. Green Label} NH ₄ OH(NH ₄) ₂ SO ₄ DW | Cl, pH > 8 | Y N | |
| | Cr6 (P) ^{Pink Label} NH ₄ OH(NH ₄) ₂ SO ₄ WW | pH 9.3-9.7 | Y N | |
| | Cr6 (P) ^{Pink Label} NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME*** | pH 9.0-9.5 | Y N | |
| | HNO ₃ (P) ^{Red Cap} | — | — | |
| | H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y N | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y N | |
| | NaOH + ZnAc (P) | pH > 9 | Y N | |
| | Dissolved Oxygen 300ml (g) | — | — | |
| | None (AG) 608/808-1/8082, 625, 632/8321, 8151, 8270 | — | — | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | |
| | Na ₂ O ₃ S+HCl (AG) ^{Lt. Pink Label} 525 | — | — | 2C |
| | Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549 | — | — | 1C |
| | Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 547,515,548,THM,524 | — | — | 2C |
| | Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505 | — | — | 4V |
| | Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531 | pH < 3 | Y N | 1V |
| | NH ₄ Cl (AG) ^{Purple Label} 552 | — | — | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | |
| | HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624 | — | — | 3V |
| | Buffer pH 4 (CG) | — | — | |
| | None (CG) | — | — | |
| | H ₃ PO ₄ (CG) ^{Salmon Label} | — | — | |
| | Other: | | | |
| | Asbestos 1Liter Plastic w/ Foil | — | — | |
| | Low Level Hg / Metals Double Baggie | — | — | |
| | Bottled Water | — | — | |
| | Clear Glass Jar: 250 / 500 / 1 Liter | — | — | |
| | Soil Tube Brass / Steel / Plastic | — | — | |
| | Tedlar Bag / Plastic Bag | — | — | |

| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials |
|-------|-----------|--------------|--------------------|-----------|--------------|--------------------|
| | S P | | | S P | | |
| | S P | | | S P | | |

Comments

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

July 8, 2015

Ceres ID: 10716

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on July 2, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # AB32527.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10716-001 | MW-9S (monitoring) | 7/2/2015 | 6/30/2015 15:00 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB32527 | | Sample Size: | 1.000 L | QC Batch #: | 1337 | Date Extracted: | 7-Jul-15 |
| | | | | | ZB-5 MS Analysis Date: | 8-Jul-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 4.46 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 88.6 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 84.8 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | |
|--|----------------------|---------------------------|--------------------|--|------------------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | Matrix: Aqueous | | Lab Sample ID: 0-OPR001 | | Date Received: NA | |
| Project: AB32527 | | Sample Size: 1.000 L | | QC Batch #: 1337 | | Date Extracted: 7-Jul-15 | |
| | | | | ZB-5 MS Analysis Date: 8-Jul-15 | | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 9.44 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 90.7 | 25-141 | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 9.23 | 3.7-15.8 | |
| | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-9S (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10716-001 | | Date Received: 2-Jul-15 |
| Project: AB32527 | | | Sample Size: 1.010 L | | QC Batch #: 1337 | | Date Extracted: 7-Jul-15 |
| Date Collected: 30-Jun-15 | | | | | ZB-5 MS Analysis Date: 8-Jul-15 | | |
| Time Collected: 15:00 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 2.64 | | | IS ¹³ C-2,3,7,8-TCDD | 74.1 | 31 - 137 |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 75.7 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: 10716
 Temperature: 3.5 °C

Reports and invoices will be delivered by email in .pdf format

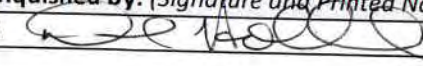
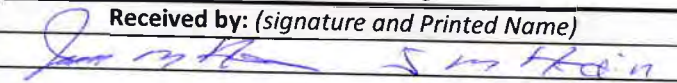
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|--|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

- A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| Sample ID | Sample Collection | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF | Comments |
|-----------|--------------------|-----------|--------|-----------------|----------|----------|-----------|----------|---------|-------|--|-----------------------------|
| | Date | Time | | | | | | | | | <input type="checkbox"/> 1998 WHO <input type="checkbox"/> 2005 WHO <input type="checkbox"/> Other | |
| 1 | MW-9S (monitoring) | 6/30/2015 | 1500 | Aq | 1 | X | | | | | | AB32527 |
| 2 | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | Please include excel report |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|---|--------|-------|
| D. Holland  | 7/1/2015 | 16:00 |  J. M. Klein | 7/1/15 | 09:15 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: <u>10716</u> | Date/Time: <u>7/2/15 09:15</u> |
| Client Project ID: <u>AB32527</u> | Received Temperature: <u>3.5°C</u> Acceptable: <u>Y</u> / N |
| Chain of Custody Relinquished by signed? | <u>Y</u> / N |
| Custody Seals? Present? | Y / N |
| | Intact? Y / N |
| | NA: <u>NA</u> |
| Unlabeled / Illegible Samples | Y / <u>N</u> |
| Proper Containers: | <u>Y</u> / N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | <u>Y</u> / N |
| Drinking Water, Sodium Thiosulfate present? | Y / N / <u>NA</u> |
| List COC discrepancies: | |
| <u>7/2/15</u> | |
| List Damaged Samples: | |
| <u>7/2/15</u> | |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10716 PB: 1337 Sample #s: 1 Due Date: 7/17/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10716-1 | 1523.78g | 514.14g | 1.0102 |
| | | | |
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Chemist: J Date: 7/7/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|--------|-------------------|-------------------|-------------------|-------------------|----|--------|----|--------|-----|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | | |
| 0-1337-MB001 | Method Blank | | 1.0002 | 7/7/15 DHA | 7/8/15 DHA | NA | 7/8/15 | NA | 7/8/15 | NA | 7/8/15 | DHA |
| 0-1337-OPR001 | OPR | | 1.0002 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10716-1337-001 | MW-9S (monitoring) | ✓ | 1.0102 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | | | | |
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Comments (A) OPR spiked with NSS.

Soxhlet Start: 14:00 7/7/15
 Soxhlet Stop: 07:00 7/8/15

Samples Logged out by: 7/7/15 10:27
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 17
 Extracts to Instrument: 09:49 7/8/15
 Extracts returned to Storage Location: 15:15 7/8/15

Chemist: [Signature]

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 100 | 2/11/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 200 | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|-----------------|----------|-----------|
| Toluene | 450ml | 146339 | 7/1/16 |
| Hexanes | 30, 30, 100, 20 | 150700 | 6/15/16 |
| S: Gel | 4g | P062315A | 12/23/15 |
| Basic Gel | 4g | P061915A | 12/19/15 |
| Acid Gel | 8g | P062415B | 12/24/15 |
| Acid A1 | 6g | P062415A | 12/24/15 |
| Na ₂ SO ₄ | 1.5g | P040515A | 10/15/15 |
| 20% Dcm Hex | 30ml | L070915A | 1/5/16 |

Chemist: 

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1507539

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: Geoscience

Project Received: 07/15/2015

Analytical Report reviewed & approved for release on 07/23/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: Geoscience
WorkOrder: 1507539

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Analytical Report

Client: Monterey Bay Analytical

WorkOrder: 1507539

Project: Geoscience

Extraction Method: E365.1

Date Received: 7/15/15 15:44

Analytical Method: E365.1

Date Prepared: 7/21/15

Unit: mg/L

Dissolved Phosphorous as P

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--------------------|--------------|--------|------------------|------------|----------|
| MW-9S (monitoring) | 1507539-001A | Water | 06/30/2015 15:00 | WC_SKALAR | R129675 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-------|----|------------------|
| Phosphorous, Dissolved (as P) | 1.4 | 0.040 | 1 | 07/22/2015 21:25 |

Analyst(s): JS



Quality Control Report

Client: Monterey Bay Analytical
Date Prepared: 7/20/15
Date Analyzed: 7/21/15
Instrument: WC_SKALAR
Matrix: Water
Project: Geoscience

WorkOrder: 1507539
BatchID: 107793
Extraction Method: E365.1
Analytical Method: E365.1
Unit: mg/L
Sample ID: MB/LCS-107793
 1507453-001AMS/MSD

QC Summary Report for E365.1

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|------------------------|-----------|------------|-------|---------|------------|----------|------------|
| Total Phosphorous as P | ND | 0.837 | 0.040 | 0.80 | - | 105 | 90-110 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Total Phosphorous as P | 1.05 | 1.08 | 0.80 | 0.3645 | 86.2 | 89.3 | 80-120 | 2.36 | 20 |



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1507539

ClientCode: MBAS

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: mweidner@mbasinc.com; Dholland@mbas
cc/3rd Party:
PO:
ProjectNo: Geoscience

Bill to:

Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT:

5 days

Date Received: **07/15/2015**

Date Printed: **07/15/2015**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | | |
|-------------|--------------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1507539-001 | MW-9S (monitoring) | Water | 6/30/2015 15:00 | <input type="checkbox"/> | A | | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|-------------|----|--|---|--|---|--|----|--|
| 1 | TotalP_Diss | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

QC Level: LEVEL 2

Work Order: 1507539

Project: Geoscience

Client Contact: David Holland

Date Received: 7/15/2015

Comments:

Contact's Email: mweidner@mbasinc.com; Dholland@mbasinc.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|--------------------|--------|--------------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1507539-001A | MW-9S (monitoring) | Water | E365.1 (Dissolved Phosphorous) | 1 | 250mL HDPE w/ HS04 | <input type="checkbox"/> | 6/30/2015 15:00 | 5 days | None | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1507539

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)

| | |
|---|--|
| Report To: David Holland | Bill To: |
| Company: Monterey Bay Analytical Services | |
| 4 Justin Ct. Suite D | |
| Monterey, Ca 93940 | E-Mail: mweidner@mbasinc.com |
| Tele: (831) 375 - 6227 | Fax: (831) 641-0734 |
| Project #: | Project Name: Geoscience |
| Project Location: CalAm | |
| Sampler Signature: Matan Salmon | |

Analysis Request

| SAMPLE ID | LOCATION/ Field Point Name | SAMPLING | | # Containers | Type Containers | MATRIX | | | | | METHOD PRESERVED | | | | MTBE / BTEX & TPH as Gas (602 / 8021 + 8015) | MTBE / BTEX ONLY (EPA 602 / 8021) | TPH as Diesel / Motor Oil (8015) | Total Petroleum Oil & Grease (1664 / 5520 E/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 502.2 / 601 / 8010 / 8021 (HVOCs) | EPA 505/608 / 8081 (CI Pesticides) | EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners | EPA 507 / 8141 (NP Pesticides) | EPA 515 / 8151 (Acidic CI Herbicides) | EPA 524.2 / 624 / 8260 (VOCs) | EPA 525.2 / 625 / 8270 (SVOCs) | EPA 8270 SIM / 8310 (PAHs / PNAS) | CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) | LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) | Lead (200.7 / 200.8 / 6010 / 6020) | Total Dissolved Phosphorous (Samples filtered and preserved w/ H2SO4) | Filter Samples for Metals analysis: Yes / No | Comments |
|-----------|----------------------------------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|-----------------------------------|----------------------------------|--|--------------------------------------|---------------------------------------|------------------------------------|---|--------------------------------|---------------------------------------|-------------------------------|--------------------------------|-----------------------------------|---|---|------------------------------------|--|--|----------|
| | | Date | Time | | | Water | Soil | Air | Sludge | Other | ICE | HCL | HNO ₃ | Other | | | | | | | | | | | | | | | | | | | |
| | MW-9S (monitoring) | 6/30/15 | 1500 | 1 | P | X | | | | | X | | | | | | | | | | | | | | | | | | | X | | AB32527 | |
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| | | | |
|------------------|---------------|-------------|--------------|
| Relinquished By: | Date: 7/14/15 | Time: 16:00 | Received By: |
| Relinquished By: | Date: 7/15/15 | Time: 0830 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

ICE/° 2.0 COMMENTS: SpCond=5384uS/cm

GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER
 PRESERVATION pH<2



Sample Receipt Checklist

Client Name: **Monterey Bay Analytical** Date and Time Received: **7/15/2015 3:44:24 PM**
 Project Name: **Geoscience** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1507539** Matrix: Water Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET/BLU)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

 Comments:

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 07/14/15 13:07 |
| Attention: David Holland | Received Date: 07/02/15 10:15 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5G02020 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

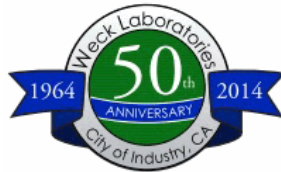
Dear David Holland :

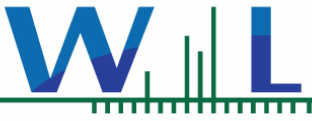
Enclosed are the results of analyses for samples received 07/02/15 10:15 with the Chain of Custody document. The samples were received in good condition, at 1.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|--------------|------------|--------|----------------|
| MW-9S (monitoring) Comments: AB32527 | Matan Salmon | 5G02020-01 | Water | 06/30/15 15:00 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

5G02020-01 MW-9S (monitoring)

Sampled: 06/30/15 15:00

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32527

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5G0128

Prepared: 07/02/15 12:00

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | 500 | 50 | ug/l | 5 | 07/02/15 16:40 | |

Chlorinated Pesticides and/or PCBs

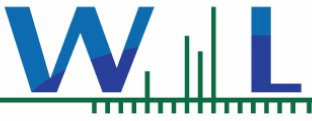
Method: EPA 508

Batch: W5G0076

Prepared: 07/02/15 12:50

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 07/06/15 23:53 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 07/06/15 23:53 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Endrin | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 07/06/15 23:53 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 07/06/15 23:53 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 07/06/15 23:53 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 07/06/15 23:53 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 07/06/15 23:53 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 07/06/15 23:53 | |
| Surr: Decachlorobiphenyl | 63 % | Conc:0.0633 | 70-130 | % | | S-GC |
| Surr: Tetrachloro-meta-xylene | 88 % | Conc:0.0881 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

5G02020-01 MW-9S (monitoring)

Sampled: 06/30/15 15:00

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32527

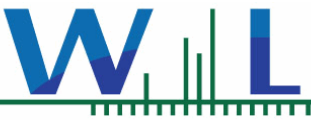
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

Anions by IC, EPA Method 9056 - Quality Control

Batch W5G0128 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5G0128-BLK1) | | | | Analyzed: 07/02/15 11:27 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5G0128-BS1) | | | | Analyzed: 07/02/15 11:59 | | | | | | |
| Iodide | 42.7 | 10 | ug/l | 40.0 | | 107 | 85-115 | | | |
| Matrix Spike (W5G0128-MS1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 16:57 | | | | |
| Iodide | 41.9 | 10 | ug/l | 40.0 | ND | 105 | 80-120 | | | |
| Matrix Spike (W5G0128-MS2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:26 | | | | |
| Iodide | 54.2 | 10 | ug/l | 40.0 | 11.7 | 106 | 80-120 | | | |
| Matrix Spike Dup (W5G0128-MSD1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 17:11 | | | | |
| Iodide | 43.6 | 10 | ug/l | 40.0 | ND | 109 | 80-120 | 4 | 20 | |
| Matrix Spike Dup (W5G0128-MSD2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:41 | | | | |
| Iodide | 53.5 | 10 | ug/l | 40.0 | 11.7 | 104 | 80-120 | 1 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | Analyzed: 07/06/15 20:18 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | Analyzed: 07/06/15 20:18 | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.108 | | ug/l | 0.100 | | 108 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0934 | | ug/l | 0.100 | | 93 | 70-130 | | | |
| LCS (W5G0076-BS1) | | | | Analyzed: 07/06/15 20:48 | | | | | | |
| 4,4'-DDD | 0.0859 | 0.010 | ug/l | 0.100 | | 86 | 55-142 | | | |
| 4,4'-DDE | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 49-129 | | | |
| 4,4'-DDT | 0.100 | 0.010 | ug/l | 0.100 | | 100 | 54-160 | | | |
| Aldrin | 0.0872 | 0.010 | ug/l | 0.100 | | 87 | 29-115 | | | |
| alpha-BHC | 0.0936 | 0.010 | ug/l | 0.100 | | 94 | 59-131 | | | |
| beta-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 63-136 | | | |
| delta-BHC | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 59-137 | | | |
| Dieldrin | 0.0909 | 0.010 | ug/l | 0.100 | | 91 | 59-135 | | | |
| Endosulfan I | 0.0701 | 0.010 | ug/l | 0.100 | | 70 | 28-138 | | | |
| Endosulfan II | 0.0741 | 0.010 | ug/l | 0.100 | | 74 | 53-133 | | | |
| Endosulfan sulfate | 0.0783 | 0.010 | ug/l | 0.100 | | 78 | 58-155 | | | |
| Endrin | 0.0882 | 0.010 | ug/l | 0.100 | | 88 | 57-148 | | | |
| Endrin aldehyde | 0.0980 | 0.010 | ug/l | 0.100 | | 98 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.0908 | 0.010 | ug/l | 0.100 | | 91 | 59-129 | | | |
| Heptachlor | 0.0912 | 0.010 | ug/l | 0.100 | | 91 | 42-136 | | | |
| Heptachlor epoxide | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 59-134 | | | |
| Methoxychlor | 0.0773 | 0.010 | ug/l | 0.100 | | 77 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.100 | | ug/l | 0.100 | | 100 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0837 | | ug/l | 0.100 | | 84 | 70-130 | | | |
| LCS Dup (W5G0076-BSD1) | | | | Analyzed: 07/06/15 21:19 | | | | | | |
| 4,4'-DDD | 0.0966 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | 12 | 25 | |
| 4,4'-DDE | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 49-129 | 11 | 25 | |
| 4,4'-DDT | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 54-160 | 11 | 25 | |
| Aldrin | 0.0981 | 0.010 | ug/l | 0.100 | | 98 | 29-115 | 12 | 25 | |
| alpha-BHC | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-131 | 13 | 25 | |
| beta-BHC | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 63-136 | 12 | 25 | |
| delta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 59-137 | 13 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5G0076 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|---------------|-------|-------------|--------------------------|---------------|------------|---------------|-----|-----------|-----------------|
| LCS Dup (W5G0076-BSD1) | | | | Analyzed: 07/06/15 21:19 | | | | | | |
| Dieldrin | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 59-135 | 12 | 25 | |
| Endosulfan I | 0.0768 | 0.010 | ug/l | 0.100 | | 77 | 28-138 | 9 | 25 | |
| Endosulfan II | 0.0832 | 0.010 | ug/l | 0.100 | | 83 | 53-133 | 12 | 25 | |
| Endosulfan sulfate | 0.0895 | 0.010 | ug/l | 0.100 | | 90 | 58-155 | 13 | 25 | |
| Endrin | 0.0988 | 0.010 | ug/l | 0.100 | | 99 | 57-148 | 11 | 25 | |
| Endrin aldehyde | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 45-139 | 13 | 25 | |
| gamma-BHC (Lindane) | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-129 | 13 | 25 | |
| Heptachlor | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 42-136 | 13 | 25 | |
| Heptachlor epoxide | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-134 | 11 | 25 | |
| Methoxychlor | 0.0884 | 0.010 | ug/l | 0.100 | | 88 | 56-167 | 13 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.105</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>105</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0932</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>93</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/02/15 10:15
Date Reported: 07/14/15 13:07

Notes and Definitions

| | |
|--------------|--|
| S-GC | Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | |
|---------------------------------|------------------------------------|--|---|---|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland Dissolved metals sample was filtered in the field using 0.45 um filter |

| | | | |
|--|---|----------------------|--|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 | |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | |
|------------|-----------------------------|---|----------|------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|---------------------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size |
| 32527 | | MW-95 | 6/30/15 | 1500 | 12.1 | | | | | | 22 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Field Parameters: |
| | | | | | | | | | | | | | Temp: 17.3°C |
| | | | | | | | | | | | | | pH: 7.06 |
| | | | | | | | | | | | | | Sp Cond: 5384 µS/cm |
| | | | | | | | | | | | | | Turb: 0.82 NTU |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|---------------|--------------------|---------|------|---|
| Sampled by: | Mattar Salmon | <i>[Signature]</i> | 6/30/15 | 1500 | Is sample for regulatory purposes? Yes / No (Yes) |
| Relinquished by: | Mattar Salmon | <i>[Signature]</i> | 6/30/15 | 1626 | |
| Received by: | MBAS | <i>[Signature]</i> | 6/30/15 | 1626 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

Cal Am ^{DW-} Geoscience

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA

<2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
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| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
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Comments

Filter + divide TL (0.45 μ) \rightarrow 500mL + H₂SO₄ + Na₂S₂O₃
 250mL + H₂SO₄
 250mL NP
 TC 6/30/15
 250mL + 2mL 1:1 re pH < 2 6/30/15



California American Water
P.O. Box 951, Monterey, CA 93942-0951
ph: 831-646-3259 / 831-646-3269
Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB32387

Collection Date/Time: 6/28/2015 10:20 Sample Collector: SALMON M
Submittal Date/Time: 6/29/2015 8:21 Sample ID

Sample Description: MW-9M

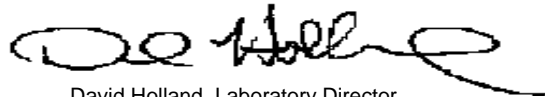
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|--------------|-------------|--------------|------|-------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 127 | | 2 | 7/8/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 100 | 7/2/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | 0.12 | | 0.05 | 6/30/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 39 | | 10 | 7/2/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 163 | | 100 | 7/2/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 155 | | 10 | 7/9/2015 | LJ |
| Boron, Dissolved | EPA200.7 | mg/L | 2.93 | | 1.0 | 7/1/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 49.6 | | 10 | 6/29/2015 | MW |
| Calcium | EPA200.7 | mg/L | 878 | | 10 | 7/1/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 869 | | 10 | 7/1/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 7/1/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 7/9/2015 | LJ |
| Chloride, Dissolved | EPA300.0 | mg/L | 16519 | | 100 | 6/29/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 7/6/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | 6 | | 3 | 6/29/2015 | LRH |
| Copper | EPA200.7 | µg/L | Not Detected | | 200 | 7/1/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 7/2/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 7/8/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 7/9/2015 | BSK |
| Dissolved Phosphorus | EPA 365.1 | mg/L | 0.06 | E | 0.040 | 7/22/2015 | MCCAM |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 7/5/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | Not Detected | | 1 | 6/29/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 7/6/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 6718 | | 10 | 7/6/2015 | TC |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 7/9/2015 | LJ |
| Iodide | EPA9056M | µg/L | Not Detected | E | 10 | 7/2/2015 | WECK |
| Iron | EPA200.7 | µg/L | 670 | | 200 | 7/1/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | 667 | | 200 | 7/1/2015 | MW |
| Kjeldahl Nitrogen, Dissolved | SM 4500 B, D | mg/L | 0.20 | | 0.10 | 7/9/2015 | TC |
| Lithium | EPA200.8 | µg/L | 289 | | 10 | 7/2/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 1100 | | 10 | 7/1/2015 | MW |

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | | |
|------------------------------------|-------------|----------|---------------------|---|------|-----------|-----|
| Magnesium, Dissolved | EPA200.7 | mg/L | 1090 | | 10 | 7/1/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 1120 | | 200 | 7/1/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 1160 | | 200 | 7/1/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | | 0.05 | 6/30/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 5 | J | 10 | 6/29/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 1.2 | | 1.00 | 6/29/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | Not Detected | | 1 | 6/29/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 1 | | 1 | 6/29/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.06 | | 0.01 | 6/29/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 6.84 | | | 6/28/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 6.9 | | 0.1 | 6/29/2015 | LRH |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | | 7/2/2015 | BSK |
| Potassium | EPA200.7 | mg/L | 197 | | 10 | 7/1/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 196 | | 10 | 7/1/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.66 | | | 7/7/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | | 7/7/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 35 | | 10 | 7/1/2015 | MW |
| Sodium | EPA200.7 | mg/L | 8407 | | 10 | 7/1/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 8430 | | 10 | 7/1/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 44090 | | 1 | 7/1/2015 | HM |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 44462 | | 1 | 6/28/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 8148 | | 50 | 7/2/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 2286 | | 10 | 6/29/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 17.2 | | | 6/28/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 29000 | | 10 | 7/1/2015 | HM |
| Turbidity | EPA180.1 | NTU | 1.3 | | 0.05 | 6/29/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.29 | | 0.05 | 6/28/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | | 7/1/2015 | BSK |
| Zinc | EPA200.7 | µg/L | Not Detected | | 200 | 7/1/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 32387 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 8407 | 0.04350 | 365.70 |
| Potassium | 197 | 0.02558 | 5.04 |
| Calcium | 878 | 0.04990 | 43.81 |
| Magnesium | 1100 | 0.08229 | 90.52 |
| NH3-N | 0.12 | 0.07143 | 0.01 |
| | | SUM | 505.08 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 127 | 0.02000 | 2.54 |
| Sulfate | 2286 | 0.02082 | 47.59 |
| Chloride | 16519 | 0.02821 | 466.00 |
| Nitrate-Nitrogen | 1.2 | 0.07138 | 0.09 |
| Phosphate-P | 0.06 | 0.01031 | 0.00 |
| Bromide | 49.6 | 0.01252 | 0.62 |
| | | SUM | 516.84 |

ANION-CATION BALANCE -1 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 44090 | |
| Cation Sum X 100 | 50508 | 115% |
| Anion Sum X 100 | 51684 | 117% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|--------|
| Sodium | 8430 | 0.04350 | 366.71 |
| Potassium | 196 | 0.02558 | 5.01 |
| Calcium | 869 | 0.04990 | 43.36 |
| Magnesium | 1090 | 0.08229 | 89.70 |
| NH3-N | 0.12 | 0.07143 | 0.01 |
| | | SUM | 504.79 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|-------|---------|--------|
| Total Alkalinity | 127 | 0.02000 | 2.54 |
| Sulfate | 2286 | 0.02082 | 47.59 |
| Chloride | 16519 | 0.02821 | 466.00 |
| Nitrate-Nitrogen | 1.2 | 0.07138 | 0.09 |
| Phosphate-P | 0.06 | 0.01031 | 0.00 |
| Bromide | 49.6 | 0.01252 | 0.62 |
| | | SUM | 516.84 |

ANION-CATION BALANCE -1 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-------|------|
| Conductivity | 44090 | |
| Cation Sum X 100 | 50479 | 114% |
| Anion Sum X 100 | 51684 | 117% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
 MontereyBayAnalytical@usa.net
<http://www.MBASinc.com>

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 7/8/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|--------------|---------------|-------|-----------------------|-------|
| ICV | 40 | 41 | 103 | 95-105 | 9:31 |
| CCV | 40 | 41 | 103 | 95-105 | 12:03 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB32393 | 294 | 295 | 0 | 5 | 9:31 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



4 Justin Court Ste D, Monterey, CA 93940
 831.375.MBAS (6227), 831.641.0734 (Fax)
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<http://www.MBASinc.com>

Color QC Summary (SM 2120B)

Date Analyzed: 6/29/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|------|
| ICVB | --- | ND | --- | <3 | 1608 |
| ICV | 5 | 5 | 100.0 | 80-120 | 1608 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|------|
| AB32390 | 150 | 150 | 0.0 | 10 | 1608 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 6/30/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.014 | --- | <0.05 | 835 |
| ICVL | 0.050 | 0.057 | 114 | 80-120 | 837 |
| ICV | 0.250 | 0.263 | 105.2 | 80-120 | 931 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32387 | 0.029 | 0.250 | 0.298 | 0.303 | 107.6 | 109.6 | 1.7 | 80/120 | 10 | 846 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 6/30/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.04 | 80.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.500 | 100.00% | 90-110 | 1100 |
| CCVB3 | --- | 0.01 | --- | <0.05 | 1230 |
| CCV3 | 0.500 | 0.520 | 104.00% | 90-110 | 1230 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32397 | ND | 0.500 | 0.510 | 0.500 | 102 | 100 | 2.0 | 85-120 | 10 | 1230 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check



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Orthophosphate QC Summary (Hach 8048)

Date: 6/29/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | ND | --- | < 0.01 | 1124 |
| LCSL | 0.01 | 0.01 | 100.0 | 50-150 | 1129 |
| ICV | 0.30 | 0.29 | 96.7 | 90-110 | 1137 |
| QCS | 0.30 | 0.29 | 96.7 | 80-120 | 1131 |
| CCV | 0.30 | 0.29 | 96.7 | 80-120 | 1148 |
| CCVB | --- | ND | --- | < 0.01 | 1150 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB32387 | 0.06 | 0.30 | 0.36 | 0.34 | 100.0 | 93.3 | 5.7 | 70-130 | 10 | 1142 | 1145 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 6/29/2025

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|-------|
| ICV | 6.86 | 6.88 | 100.3 | 95-105 | 16:35 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|-------|
| AB32463 | 7.5 | 7.5 | 0 | 10 | 16:35 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 7/1/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|-------|-----------------------------|------|
| ICV | 1412 | 1411 | 99.9% | 95-105 | 1115 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB32467 | 1112 | 1115 | 0.3% | 10 | 1115 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 7/1/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 8 | --- | <10 | 1350 |
| ICVL | 100 | 114 | 114 | 80-120 | 1350 |
| ICV | 500 | 500 | 100 | 90-110 | 1350 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB32393 | 571 | 566 | 0.9 | 10 | 1350 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen by Electrode QC Summary (SM 4500-NH3 B,D)

Date: 7/9/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.02 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.05 | 100.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.460 | 92.00% | 90-110 | 1100 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32250 | 0.140 | 0.500 | 0.620 | 0.620 | 96 | 96 | 0.0 | 85-120 | 10 | 1130 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 6/29/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|--------|--------------------------|------|
| ICVB | --- | ND | --- | <0.05 | NR |
| ICV | 1.00 | 1.00 | 100.0% | 95-105 | NR |
| CCVB | --- | ND | --- | <0.05 | NR |
| CCV | 1.00 | 1.00 | 100.0% | 95-105 | NR |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB32387 | 1.3 | 1.3 | 0.00% | 10 | NR |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample

AB32387 D

20x Dilution

Date Analyzed

Thursday, July 02, 2015

| | ICVB | QCS 50 | LCB | LCS | LCSD | LCS-LCSD | Sample | Spike | MS | MSD | MS-MSD | ICV | CCV | ICV-CCV | CCVB |
|-----------|------|---------|-------|---------|---------|----------|--------|-------|---------|---------|--------|---------|---------|---------|------|
| | ug/L | %Rec. | ug/L | % Rec | %Rec | %RPD | ug/L | ug/L | %Rec. | % Rec. | % RPD | % Rec | % Rec | % RPD | ug/L |
| | | 85-115% | | 70-130% | 70-130% | 20% | | | 70-130% | 70-130% | 20% | 85-115% | 85-115% | 20% | |
| Lithium | 0.0 | 98.8 | 0.23 | 129.0 | 144.4 | 0.11 | 317.7 | 500 | 90.4 | 89.8 | 0.6 | 95.4 | 94.6 | 0.80 | 0.04 |
| Aluminum | 0.0 | 96.9 | 6.19 | 119.2 | 134.9 | 0.12 | 15.1 | 500 | 92.9 | 99.6 | 6.9 | 94.6 | 96.6 | 2.02 | 0.08 |
| Arsenic | 0.1 | 97.6 | -0.30 | 99.7 | 113.1 | 0.13 | 42.6 | 500 | 93.1 | 100.2 | 7.3 | 99.0 | 97.6 | 1.50 | 0.03 |
| Strontium | 0.0 | 99.5 | 0.02 | 102.1 | 115.1 | 0.12 | 8148.6 | 500 | 16.0 | 94.1 | 141.9 | 96.9 | 97.9 | 0.98 | 0.00 |
| Barium | 0.0 | 98.9 | 0.03 | 99.7 | 112.2 | 0.12 | 162.6 | 500 | 91.6 | 99.2 | 8.0 | 95.3 | 95.8 | 0.50 | 0.01 |

ICVB=Initial Calibration Verification Blank; QCS=Quality Control Sample; LCB=Laboratory Control Blank; LCS/D=Laboratory Control Standard/Duplicate; MS/D=Matrix Spike/Duplicate; ICV=Instrument Calibration Verification; CCV=Continuing Calibration Verification; RPD=Relative Percent Difference

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300.0 QC Report

All units expressed in mg/L

Batch ID:

20150629

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.00 | 0.00 | 0.03 | 0.00 | 0.14 | 0.00 |
| ICV | 1.99 | 19.82 | 2.16 | 20.37 | 1.92 | 1.97 |
| Rec 90-110% | 99.63 | 99.09 | 108.16 | 101.85 | 96.02 | 98.35 |
| ICVL | 0.19 | 1.76 | 0.21 | 1.17 | 0.23 | 0.22 |
| Rec 50-150% | 97.07 | 87.96 | 105.08 | 58.27 | 116.66 | 108.35 |
| Sample ID AB32397 | 0.10 | 68.09 | 0.12 | 0.00 | 0.09 | 0.09 |
| MS | 2.00 | 87.36 | 2.14 | 17.51 | 2.15 | 1.80 |
| Rec 80-120% | 95.34 | 96.39 | 101.05 | 87.56 | 103.28 | 85.41 |
| MSD | 2.03 | 87.15 | 2.15 | 17.56 | 2.15 | 1.80 |
| Rec 80-120% | 96.51 | 95.34 | 101.18 | 87.79 | 103.40 | 85.50 |
| Diff 10% | 1.16 | 0.24 | 0.12 | 0.26 | 0.12 | 0.10 |
| CCV | 1.98 | 19.81 | 2.19 | 20.34 | 1.90 | 1.96 |
| Rec 90-110% | 98.98 | 99.07 | 109.38 | 101.70 | 95.07 | 97.93 |
| Diff 10% | 0.65 | 0.02 | 1.12 | 0.14 | 1.00 | 0.43 |
| CCVB | 0.06 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 |

Batch # 20150701b

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCSD | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.00 | 1.02 | 101.6% | 1.04 | 104.0% | 2.4% | 1 | 1.00 | 100.0% | 1 | 1.0 | 99.8% |
| B 249.772 | 0.05-5ppm | 0.01 | 0.01 | 1.01 | 101.2% | 1.04 | 104.4% | 3.2% | 1 | 1.00 | 100.4% | 1 | 1.0 | 99.5% |
| Ca 317.933 | 50-300ppm | -5.93 | -5.98 | 49.8 | 99.6% | 50.2 | 100.4% | 0.8% | 50 | 48.1 | 96.2% | 50 | 47.1 | 94.2% |
| Ca 396.847 | 0.5-50ppm | -0.36 | -0.41 | 50.3 | 100.6% | 46.6 | 93.2% | 7.7% | 50 | 49.7 | 99.4% | 50 | 49.2 | 98.4% |
| Cu 324.754 | 10ppb-100ppm | 2.20 | 1.43 | 1021 | 102.1% | 1046 | 104.6% | 2.5% | 1000 | 1000 | 100.0% | 1000 | 988.1 | 98.8% |
| Cu 327.395 | 10ppb-100ppm | 3.47 | 4.69 | 1027 | 102.7% | 1047 | 104.7% | 1.9% | 1000 | 996 | 99.6% | 1000 | 985.3 | 98.5% |
| Fe 238.204 | 10ppb-100ppm | 2.22 | 1.05 | 1010 | 101.0% | 1029 | 102.9% | 2.0% | 1000 | 1004 | 100.4% | 1000 | 995.1 | 99.5% |
| Fe 259.940 | 10ppb-100ppm | 3.07 | 6.13 | 997 | 99.7% | 1017 | 101.7% | 2.0% | 1000 | 992 | 99.2% | 1000 | 988.1 | 98.8% |
| K 766.491 | 0.5-750ppm | -0.07 | -0.08 | 10.0 | 100.1% | 10.3 | 103.1% | 2.9% | 10 | 9.9 | 98.7% | 10 | 9.8 | 97.8% |
| Mg 202.582 | 50-1000ppm | -2.15 | -2.19 | 50.7 | 101.3% | 51.7 | 103.3% | 2.0% | 50 | 49.9 | 99.8% | 50 | 49.4 | 98.9% |
| Mg 279.078 | 0.5-50ppm | 0.24 | 0.18 | 50.4 | 100.9% | 51.7 | 103.3% | 2.4% | 50 | 49.9 | 99.7% | 50 | 49.4 | 98.8% |
| Mn 257.610 | 10ppb-11ppm | 2.97 | 1.96 | 1012 | 101.2% | 1027 | 102.7% | 1.5% | 1000 | 995 | 99.5% | 1000 | 996.9 | 99.7% |
| Mn 260.568 | 10ppb-11ppm | 2.02 | 1.43 | 1009 | 100.9% | 1029 | 102.9% | 1.9% | 1000 | 994 | 99.4% | 1000 | 995.0 | 99.5% |
| Na 568.821 | 50-1000ppm | 0.53 | 0.59 | 49.6 | 99.1% | 50.4 | 100.8% | 1.7% | 50 | 48.9 | 97.8% | 50 | 48.9 | 97.8% |
| Na 589.592 | 0.5-50ppm | 0.27 | 0.23 | 49.8 | 99.5% | 51.8 | 103.5% | 3.9% | 50 | 49.5 | 98.9% | 50 | 49.3 | 98.5% |
| Si 251.611 | 0.5-200ppm | 0.30 | 0.12 | 50.4 | 100.9% | 51.4 | 102.7% | 1.8% | 50 | 50.0 | 100.0% | 50 | 50.1 | 100.3% |
| Si 252.411 | 0.5-200ppm | 0.33 | 0.15 | 50.3 | 100.6% | 51.2 | 102.4% | 1.8% | 50 | 50.1 | 100.2% | 50 | 50.2 | 100.4% |
| Zn 213.857 | 10ppb-50ppm | -4.67 | -5.37 | 1005 | 100.5% | 1013 | 101.3% | 0.8% | 1000 | 988 | 98.8% | 1000 | 989.3 | 98.9% |

Sample ID AB32495

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|-------|-------|-------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.14 | 1.12 | 97.6% | 1.11 | 96.7% | 0.8% | 1 | 0.98 | 98.4% | 1.6% | 0.01 |
| B 249.772 | 0.14 | 1.11 | 96.5% | 1.11 | 97.2% | 0.6% | 1 | 0.98 | 98.4% | 2.1% | 0.00 |
| Ca 317.933 | 22.7 | 74.2 | 103.1% | 73.5 | 101.6% | 1.0% | 50 | 47.4 | 94.9% | 1.4% | -5.96 |
| Ca 396.847 | 27.3 | 71.1 | 87.6% | 70.6 | 86.7% | 0.6% | 50 | 49.2 | 98.3% | 1.1% | -0.39 |
| Cu 324.754 | 4 | 967 | 96.3% | 968 | 96.4% | 0.1% | 1000 | 980 | 98.0% | 2.0% | 1.60 |
| Cu 327.395 | 7 | 973 | 96.7% | 965 | 95.9% | 0.9% | 1000 | 974 | 97.4% | 2.2% | 4.74 |
| Fe 238.204 | 16 | 981 | 96.5% | 978 | 96.2% | 0.3% | 1000 | 983 | 98.3% | 2.1% | 1.47 |
| Fe 259.940 | 18 | 978 | 96.1% | 982 | 96.4% | 0.3% | 1000 | 984 | 98.4% | 0.8% | 2.60 |
| K 766.491 | 1.1 | 10.8 | 97.4% | 10.8 | 97.6% | 0.3% | 10 | 9.9 | 98.6% | 0.1% | -0.07 |
| Mg 202.582 | 6.4 | 56.3 | 99.8% | 56.4 | 100.1% | 0.2% | 50 | 48.6 | 97.3% | 2.5% | -2.18 |
| Mg 279.078 | 8.5 | 56.5 | 95.9% | 56.3 | 95.5% | 0.4% | 50 | 49.4 | 98.7% | 1.0% | 0.18 |
| Mn 257.610 | 10 | 966 | 95.6% | 967 | 95.7% | 0.1% | 1000 | 978 | 97.8% | 1.8% | 2.27 |
| Mn 260.568 | 10 | 969 | 95.9% | 967 | 95.6% | 0.3% | 1000 | 977 | 97.7% | 1.7% | 1.62 |
| Na 568.821 | 43.6 | 91.7 | 96.2% | 91.3 | 95.4% | 0.4% | 50 | 47.8 | 95.6% | 2.3% | 0.26 |
| Na 589.592 | 45.2 | 91.4 | 92.4% | 90.6 | 90.8% | 0.9% | 50 | 48.9 | 97.8% | 1.1% | 0.25 |
| Si 251.611 | 9.3 | 57.1 | 95.6% | 56.8 | 95.0% | 0.5% | 50 | 49.4 | 98.9% | 1.1% | 0.13 |
| Si 252.411 | 9.4 | 57.1 | 95.3% | 56.9 | 94.9% | 0.3% | 50 | 49.4 | 98.9% | 1.3% | 0.16 |
| Zn 213.857 | 620 | 1527 | 90.7% | 1523 | 90.3% | 0.2% | 1000 | 974 | 97.4% | 1% | -6.23 |



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5F2584

7/10/2015

Invoice: A514221

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5F2584 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/30/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

Client: Monterey Bay Analytical
Report To: David Holland
Project #: -
Received: 6/30/2015 - 12:00
Report Due: 7/15/2015

Invoice To: Monterey Bay Analytical
Invoice Attn: David Holland
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 1.4

Containers Intact
 COC/Labels Agree
 Received On Wet Ice
 Received On Blue Ice
 Sample(s) arrived at lab on same day sampled.
 Packing Material - Bubble Wrap
 Sample(s) were received in temperature range.
 Initial receipt at BSK-FAL

Cooler: New Cooler
Temperature on Receipt °C: 5.9

Containers Intact
 COC/Labels Agree
 Received On Wet Ice
 Received On Blue Ice
 Sample(s) arrived at lab on same day sampled.
 Packing Material - Bubble Wrap
 Sample(s) were received in temperature range.
 Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS2.0 MS/MSD RPD exceeds control limit. No material impact as both sets of recovery data meet control criteria.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5F2584-01
Sampled By: Matan Salmon
Sample Description: MW-9M (monitoring) // AB32387

Sample Date - Time: 06/28/15 - 10:20
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A507286 | 07/01/15 | 07/02/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A507286 | 07/01/15 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 99 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Surrogate: DCPAA | EPA 515.3 | 103 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |

Certificate of Analysis

Sample ID: A5F2584-01
Sampled By: Matan Salmon
Sample Description: MW-9M (monitoring) // AB32387

Sample Date - Time: 06/28/15 - 10:20
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|-----------------------------------|---------|----------|----------|-------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | BS1.0 |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Toluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 92 % | | | <i>Acceptable range: 70-130 %</i> | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 95 % | | | <i>Acceptable range: 70-130 %</i> | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5F2584-01
Sampled By: Matan Salmon
Sample Description: MW-9M (monitoring) // AB32387

Sample Date - Time: 06/28/15 - 10:20
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | BS1.0 |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | BS1.0 |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 94 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A507422 | 07/06/15 | 07/06/15 | |
| Surrogate: AMPA | EPA 547 | 99 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A507403 | 07/02/15 | 07/05/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A507404 | 07/02/15 | 07/09/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A507286

Prepared: 07/01/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A507286-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 103 | 70-130 | | | 07/02/15 | |

Blank Spike (A507286-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | | 101 | 70-130 | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | | 94 | 70-130 | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 105 | 70-130 | | | 07/02/15 | |

Blank Spike Dup (A507286-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 97 | 70-130 | 5 | 20 | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 92 | 70-130 | 2 | 20 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 103 | 70-130 | | | 07/02/15 | |

Matrix Spike (A507286-MS1), Source: A5F2509-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 97 | 65-135 | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 96 | 65-135 | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 102 | 70-130 | | | 07/02/15 | |

Matrix Spike Dup (A507286-MSD1), Source: A5F2509-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 97 | 65-135 | 1 | 20 | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | ND | 95 | 65-135 | 1 | 20 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.47 | | 99 | 70-130 | | | 07/02/15 | |

EPA 515.3 - Quality Control

Batch: A507269

Prepared: 06/30/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A507269-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 07/02/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 07/02/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 07/02/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 07/02/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 07/02/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 07/02/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 07/02/15 | |

Blank Spike (A507269-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | | | 07/01/15 | |
| 2,4,5-TP (Silvex) | 0.88 | 1.0 | ug/L | 0.80 | | 111 | 70-130 | | | 07/01/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | | 108 | 70-130 | | | 07/01/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | | 102 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A507269

Prepared: 06/30/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A507269-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.6 | 10 | ug/L | 4.0 | | 115 | 70-130 | | | 07/01/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 107 | 70-130 | | | 07/01/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 103 | 70-130 | | | 07/01/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 101 | 70-130 | | | 07/01/15 | |
| Picloram | 0.50 | 1.0 | ug/L | 0.40 | | 124 | 70-130 | | | 07/01/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 99 | 70-130 | | | 07/01/15 | |

Blank Spike Dup (A507269-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|----|----|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | | 107 | 70-130 | 3 | 20 | 07/02/15 | |
| 2,4,5-TP (Silvex) | 0.89 | 1.0 | ug/L | 0.80 | | 112 | 70-130 | 1 | 20 | 07/02/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | | 110 | 70-130 | 2 | 20 | 07/02/15 | |
| Bentazon | 8.4 | 2.0 | ug/L | 8.0 | | 105 | 70-130 | 3 | 20 | 07/02/15 | |
| Dalapon | 4.6 | 10 | ug/L | 4.0 | | 115 | 70-130 | 0 | 20 | 07/02/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 107 | 70-130 | 0 | 20 | 07/02/15 | |
| Dinoseb | 0.84 | 2.0 | ug/L | 0.80 | | 105 | 70-130 | 1 | 20 | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | | 103 | 70-130 | 2 | 20 | 07/02/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 101 | 70-130 | 20 | 20 | 07/02/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 07/02/15 | |

Matrix Spike (A507269-MS1), Source: A5F2292-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.7 | 1.0 | ug/L | 4.0 | ND | 117 | 70-130 | | | 07/02/15 | |
| 2,4,5-TP (Silvex) | 0.87 | 1.0 | ug/L | 0.80 | ND | 108 | 70-130 | | | 07/02/15 | |
| 2,4-D | 0.46 | 10 | ug/L | 0.40 | ND | 114 | 70-130 | | | 07/02/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | ND | 101 | 70-130 | | | 07/02/15 | |
| Dalapon | 4.8 | 10 | ug/L | 4.0 | ND | 119 | 70-130 | | | 07/02/15 | |
| Dicamba | 6.1 | 1.5 | ug/L | 6.0 | ND | 102 | 70-130 | | | 07/02/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | | | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 105 | 70-130 | | | 07/02/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | ND | 103 | 70-130 | | | 07/02/15 | |
| Surrogate: DCPAA | 60 | | | 58 | | 103 | 70-130 | | | 07/02/15 | |

Matrix Spike Dup (A507269-MSD1), Source: A5F2292-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|----|----|----------|-------|
| 2,4,5-T | 4.5 | 1.0 | ug/L | 4.0 | ND | 114 | 70-130 | 3 | 20 | 07/02/15 | |
| 2,4,5-TP (Silvex) | 1.0 | 1.0 | ug/L | 0.80 | ND | 127 | 70-130 | 16 | 20 | 07/02/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | ND | 111 | 70-130 | 3 | 20 | 07/02/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | ND | 102 | 70-130 | 1 | 20 | 07/02/15 | |
| Dalapon | 5.0 | 10 | ug/L | 4.0 | ND | 126 | 70-130 | 6 | 20 | 07/02/15 | |
| Dicamba | 6.3 | 1.5 | ug/L | 6.0 | ND | 106 | 70-130 | 3 | 20 | 07/02/15 | |
| Dinoseb | 0.84 | 2.0 | ug/L | 0.80 | ND | 105 | 70-130 | 3 | 20 | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 104 | 70-130 | 1 | 20 | 07/02/15 | |
| Picloram | 0.51 | 1.0 | ug/L | 0.40 | ND | 128 | 70-130 | 22 | 20 | 07/02/15 | MS2.0 |
| Surrogate: DCPAA | 60 | | | 58 | | 103 | 70-130 | | | 07/02/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507280-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507280-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 98 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 101 | 70-130 | | | 07/01/15 | |

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,2-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,3-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,4-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 2-Butanone | 9.5 | 5.0 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|---------|
| 2-Chlorotoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 2-Hexanone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 4-Chlorotoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 4-Methyl-2-pentanone | 9.5 | 5.0 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |
| Acetone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| Benzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Bromobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| Bromochloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 07/01/15 | |
| Bromomethane | 14 | 0.50 | ug/L | 10 | | 136 | 70-130 | | | 07/01/15 | BS High |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 103 | 70-130 | | | 07/01/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/01/15 | |
| Chlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| Chloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| Chloroform | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Chloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 07/01/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Dichlorodifluoromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/01/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Ethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Hexachlorobutadiene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | | | 07/01/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | | | 07/01/15 | |
| Naphthalene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 07/01/15 | |
| n-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |
| n-Propylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| o-Xylene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| p-Isopropyltoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| sec-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Styrene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.3 | 3.0 | ug/L | 10 | | 93 | 70-130 | | | 07/01/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| tert-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Tetrachloroethene (PCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Toluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 109 | 70-130 | | | 07/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 95 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 96 | 70-130 | | | 07/01/15 | |

Blank Spike Dup (A507280-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|---------|
| 1,1,1,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,1-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,1-Dichloroethene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 3 | 30 | 07/01/15 | |
| 1,2-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,3-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,4-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| 2,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Butanone | 9.3 | 5.0 | ug/L | 10 | | 93 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Hexanone | 9.5 | 10 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| 4-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 4-Methyl-2-pentanone | 9.6 | 5.0 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Acetone | 9.3 | 10 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 07/01/15 | |
| Benzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| Bromobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Bromochloromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 07/01/15 | |
| Bromodichloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 07/01/15 | |
| Bromomethane | 13 | 0.50 | ug/L | 10 | | 135 | 70-130 | 1 | 30 | 07/01/15 | BS High |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 07/01/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 07/01/15 | |
| Chlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Chloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 07/01/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Chloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| cis-1,2-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |

BSK Associates Fresno
Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A507280-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 07/01/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| Dichlorodifluoromethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 07/01/15 | |
| Dichloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 5 | 30 | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | 0 | 30 | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Ethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Hexachlorobutadiene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| Isopropylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/01/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | 3 | 30 | 07/01/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Naphthalene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 07/01/15 | |
| n-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 1 | 30 | 07/01/15 | |
| n-Propylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| o-Xylene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| p-Isopropyltoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 07/01/15 | |
| sec-Butylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| Styrene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.5 | 3.0 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| tert-Butyl alcohol (TBA) | 8.9 | 2.0 | ug/L | 10 | | 89 | 70-130 | 12 | 30 | 07/01/15 | |
| tert-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/01/15 | |
| Tetrachloroethene (PCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Toluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 07/01/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| Trichloroethene (TCE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 107 | 70-130 | 2 | 30 | 07/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 96 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 97 | 70-130 | | | 07/01/15 | |

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|----|----|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| 1,1,1-Trichloroethane | 12 | 0.50 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | 10 | ug/L | 10 | ND | 121 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | ND | 110 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethene | 12 | 0.50 | ug/L | 10 | ND | 116 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloropropene | 12 | 0.50 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 106 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 105 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| 1,2-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 106 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloroethane | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|----|-----|--------|--|--|----------|------------|
| 1,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 114 | 70-130 | | | 07/01/15 | |
| 1,3-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| 1,3-Dichloropropane | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 1,4-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 107 | 70-130 | | | 07/01/15 | |
| 2,2-Dichloropropane | 12 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | ND | 102 | 70-130 | | | 07/01/15 | |
| 2-Chlorotoluene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| 4-Chlorotoluene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | ND | 102 | 70-130 | | | 07/01/15 | |
| Acetone | 8.9 | 10 | ug/L | 10 | ND | 89 | 70-130 | | | 07/01/15 | |
| Benzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | ND | 104 | 70-130 | | | 07/01/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| Bromodichloromethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| Bromoform | 8.6 | 0.50 | ug/L | 10 | ND | 86 | 70-130 | | | 07/01/15 | |
| Bromomethane | 9.4 | 0.50 | ug/L | 10 | ND | 94 | 70-130 | | | 07/01/15 | |
| Carbon disulfide | 12 | 10 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| Carbon Tetrachloride | 12 | 0.50 | ug/L | 10 | ND | 118 | 70-130 | | | 07/01/15 | |
| Chlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Chloroform | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Chloromethane | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | ND | 114 | 70-130 | | | 07/01/15 | |
| cis-1,3-Dichloropropene | 9.5 | 0.50 | ug/L | 10 | ND | 95 | 70-130 | | | 07/01/15 | |
| Dibromochloromethane | 9.9 | 0.50 | ug/L | 10 | ND | 99 | 70-130 | | | 07/01/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Dichlorodifluoromethane | 13 | 0.50 | ug/L | 10 | ND | 134 | 70-130 | | | 07/01/15 | MS1.0 High |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 11 | 3.0 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 12 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Ethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Hexachlorobutadiene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Isopropylbenzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| m,p-Xylenes | 23 | 0.50 | ug/L | 20 | ND | 114 | 70-130 | | | 07/01/15 | |
| Methyl-t-butyl ether | 22 | 0.50 | ug/L | 20 | ND | 111 | 70-130 | | | 07/01/15 | |
| Naphthalene | 9.9 | 0.50 | ug/L | 10 | ND | 99 | 70-130 | | | 07/01/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| n-Propylbenzene | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| o-Xylene | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| p-Isopropyltoluene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| sec-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Styrene | 14 | 0.50 | ug/L | 10 | ND | 142 | 70-130 | | | 07/01/15 | MS1.0 High |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|----|-----|--------|--|--|----------|------------|
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| tert-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Tetrachloroethene (PCE) | 12 | 0.50 | ug/L | 10 | ND | 120 | 70-130 | | | 07/01/15 | |
| Toluene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| trans-1,2-Dichloroethene | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| trans-1,3-Dichloropropene | 8.9 | 0.50 | ug/L | 10 | ND | 89 | 70-130 | | | 07/01/15 | |
| Trichloroethene (TCE) | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| Trichlorofluoromethane | 13 | 5.0 | ug/L | 10 | ND | 132 | 70-130 | | | 07/01/15 | MS1.0 High |
| Vinyl Chloride | 13 | 0.50 | ug/L | 10 | ND | 132 | 70-130 | | | 07/01/15 | MS1.0 High |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 98 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 99 | 70-130 | | | 07/01/15 | |

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A507341-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 07/06/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 07/06/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 07/06/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 07/06/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 07/06/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 07/06/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 07/06/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 07/06/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 108 | 70-130 | | | 07/06/15 | |

Blank Spike (A507341-BS1)

| | | | | | | | | | | | |
|-----------------------------|------|------|------|------|--|-----|--------|--|--|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | | | 07/06/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.50 | | 115 | 70-130 | | | 07/06/15 | |
| Benzo(a)pyrene | 0.19 | 0.10 | ug/L | 0.10 | | 193 | 70-130 | | | 07/06/15 | BS High |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 106 | 70-130 | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 116 | 70-130 | | | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 1.0 | | 136 | 70-130 | | | 07/06/15 | BS High |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 111 | 70-130 | | | 07/06/15 | |
| Diazinon | 0.16 | 0.25 | ug/L | 0.20 | | 82 | 70-130 | | | 07/06/15 | |
| Dimethoate | 1.2 | 10 | ug/L | 1.0 | | 117 | 70-130 | | | 07/06/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank Spike (A507341-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 110 | 70-130 | | | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 116 | 70-130 | | | 07/06/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 103 | 70-130 | | | 07/06/15 | |
| Prometryn | 1.9 | 2.0 | ug/L | 2.0 | | 93 | 70-130 | | | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | | 107 | 70-130 | | | 07/06/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 103 | 70-130 | | | 07/06/15 | |
| Thiobencarb | 0.56 | 1.0 | ug/L | 0.50 | | 113 | 70-130 | | | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 103 | 70-130 | | | 07/06/15 | |

Blank Spike Dup (A507341-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | 1 | 30 | 07/06/15 | |
| Atrazine | 0.49 | 0.50 | ug/L | 0.50 | | 99 | 70-130 | 15 | 30 | 07/06/15 | |
| Benzo(a)pyrene | 0.19 | 0.10 | ug/L | 0.10 | | 193 | 70-130 | 0 | 30 | 07/06/15 | BS High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 111 | 70-130 | 5 | 30 | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.8 | 3.0 | ug/L | 1.5 | | 117 | 70-130 | 1 | 30 | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 1.0 | | 137 | 70-130 | 1 | 30 | 07/06/15 | BS High |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 107 | 70-130 | 4 | 30 | 07/06/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | | 90 | 70-130 | 9 | 30 | 07/06/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 113 | 70-130 | 4 | 30 | 07/06/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 109 | 70-130 | 1 | 30 | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 116 | 70-130 | 0 | 30 | 07/06/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 109 | 70-130 | 5 | 30 | 07/06/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | | 104 | 70-130 | 11 | 30 | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | | 108 | 70-130 | 1 | 30 | 07/06/15 | |
| Simazine | 0.35 | 1.0 | ug/L | 0.35 | | 101 | 70-130 | 3 | 30 | 07/06/15 | |
| Thiobencarb | 0.55 | 1.0 | ug/L | 0.50 | | 109 | 70-130 | 3 | 30 | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 108 | 70-130 | | | 07/06/15 | |

Matrix Spike (A507341-MS1), Source: A5F2610-01

| | | | | | | | | | | | |
|-----------------------------|------|------|------|-------|----|-----|--------|--|--|----------|------------|
| Alachlor | 1.2 | 1.0 | ug/L | 0.97 | ND | 120 | 70-130 | | | 07/06/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.49 | ND | 118 | 70-130 | | | 07/06/15 | |
| Benzo(a)pyrene | 0.18 | 0.10 | ug/L | 0.097 | ND | 184 | 70-130 | | | 07/06/15 | MS1.0 High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 1.9 | ND | 113 | 70-130 | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | ND | 112 | 70-130 | | | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 0.97 | ND | 142 | 70-130 | | | 07/06/15 | MS1.0 High |
| Butachlor | 1.2 | 0.38 | ug/L | 0.97 | ND | 121 | 70-130 | | | 07/06/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.19 | ND | 99 | 70-130 | | | 07/06/15 | |
| Dimethoate | 1.2 | 10 | ug/L | 0.97 | ND | 120 | 70-130 | | | 07/06/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 1.9 | ND | 113 | 70-130 | | | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 0.97 | ND | 124 | 70-130 | | | 07/06/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 0.97 | ND | 104 | 70-130 | | | 07/06/15 | |
| Prometryn | 2.0 | 2.0 | ug/L | 1.9 | ND | 101 | 70-130 | | | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.49 | ND | 112 | 70-130 | | | 07/06/15 | |
| Simazine | 0.38 | 1.0 | ug/L | 0.34 | ND | 112 | 70-130 | | | 07/06/15 | |
| Thiobencarb | 0.57 | 1.0 | ug/L | 0.49 | ND | 117 | 70-130 | | | 07/06/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A507341-MS1), Source: A5F2610-01

Surrogate: 1,3-Dimethyl-2-nitrobenzene 4.9 4.9 100 70-130 07/06/15

EPA 531.1 - Quality Control

Batch: A507267

Prepared: 06/30/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Blank (A507267-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 07/01/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |

Blank Spike (A507267-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.1 | 3.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Aldicarb | 3.6 | 3.0 | ug/L | 4.0 | | 91 | 80-120 | | | 07/01/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 07/01/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | | 103 | 80-120 | | | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | | 106 | 80-120 | | | 07/01/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Methomyl | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | | | 07/01/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |

Blank Spike Dup (A507267-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 07/01/15 | |
| Aldicarb | 3.6 | 3.0 | ug/L | 4.0 | | 90 | 80-120 | 1 | 20 | 07/01/15 | |
| Aldicarb Sulfone | 3.9 | 2.0 | ug/L | 4.0 | | 98 | 80-120 | 2 | 20 | 07/01/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 3 | 20 | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | 1 | 20 | 07/01/15 | |
| Carbofuran | 4.0 | 5.0 | ug/L | 4.0 | | 99 | 80-120 | 6 | 20 | 07/01/15 | |
| Methiocarb | 3.4 | 2.0 | ug/L | 4.0 | | 85 | 80-120 | 17 | 20 | 07/01/15 | |
| Methomyl | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | 4 | 20 | 07/01/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 07/01/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | 6 | 20 | 07/01/15 | |

Matrix Spike (A507267-MS1), Source: A5F2371-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | ND | 105 | 65-135 | | | 07/01/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | ND | 93 | 65-135 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A507267

Prepared: 06/30/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Matrix Spike (A507267-MS1), Source: A5F2371-01

| | | | | | | | | | | | |
|--------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 07/01/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | ND | 102 | 65-135 | | | 07/01/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | ND | 105 | 65-135 | | | 07/01/15 | |
| Methiocarb | 4.2 | 2.0 | ug/L | 4.0 | ND | 89 | 65-135 | | | 07/01/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | ND | 109 | 65-135 | | | 07/01/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 101 | 65-135 | | | 07/01/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 07/01/15 | |

EPA 547 - Quality Control

Batch: A507422

Prepared: 07/06/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A507422-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike (A507422-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 91 | 25 | ug/L | 100 | | 91 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike Dup (A507422-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | | 117 | 70-130 | 25 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

Matrix Spike (A507422-MS1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|----|----|--------|--|--|----------|--|
| Glyphosate | 88 | 25 | ug/L | 100 | ND | 87 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 96 | | | 100 | | 94 | 70-130 | | | 07/06/15 | |

Matrix Spike Dup (A507422-MSD1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | ND | 114 | 70-130 | 27 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 07/02/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A507403-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 07/05/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507403-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 92 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507403-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|
| Endothall | 22 | 45 | ug/L | 20 | | 110 | 46-116 | 18 | 30 | 07/05/15 | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 07/02/2015

Prep Method: EPA 548.1

Analyst: MTM

Matrix Spike (A507403-MS1), Source: A5F2319-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|
| Endothall | 20 | 45 | ug/L | 20 | ND | 98 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|

EPA 549.2 - Quality Control

Batch: A507404

Prepared: 07/02/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A507404-BLK1)

| | | | | | | | | | | | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 0.40 | ug/L | | | | | | | 07/09/15 | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507404-BS1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.6 | 0.40 | ug/L | 4.0 | | 90 | 70-130 | | | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507404-BSD1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.5 | 0.40 | ug/L | 4.0 | | 88 | 70-130 | 2 | 30 | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5F2584



06302015



Monte6227

Turnaround: Standard

Due Date: 7/15/2015



Monterey Bay Analytical



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

1.4.55

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: _____

AS2F584
 Monte6227

 06/30/2015
 10

*Required Fields

Temp: _____

Company/Client Name*: **Monterey Bay Analytical Services** Report Attention*: **Mason Weidner-Holland** Invoice To*: **David Holland** Phone*: **831-375-6227** Fax: **831-641-0734**
 Address*: **4 Justin Court, Suite D** City*: **Monterey** State*: **CA** Zip*: **93940** E-mail*: **mweidner@mbasin.com, dholland@mbasin.com**
 Project: **Cal Am** Project #: _____ How would you like to receive your completed results? E-Mail Fax Mail

Reporting Options: Trace (-Flag) Swamp EDD Type: _____ Regulatory Carbon Copies: SWRCB (Drinking Water) Fresno Co Madera Co Tulare Co
 Sampler Name (Printed/Signature)*: **Matan Salmon** Other: _____ Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number*: _____
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water MW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid Geotracker #: _____

| # | Sample Description* | Date | Time | Matrix* | Comments / Station Code / WTRAX | EPA 524 | EPA 504 | EPA 515 | EPA 525 | EPA 531 | EPA 547 | EPA 548 | EPA 549 |
|---|---------------------|---------|------|---------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | MW-9M (monitoring) | 6/28/15 | 1020 | GW | AB32387 | X | X | X | X | X | X | X | X |

Relinquished by: (Signature and Printed Name) **D. Holland** Company **MBAS** Date **6/29/15** Time **1600** Received by: (Signature and Printed Name) _____
 Relinquished by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____ Received by: (Signature and Printed Name) _____
 Relinquished by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____ Received by: (Signature and Printed Name) _____

Received at Lab: (Signature and Printed Name) _____ Date _____
 Payment for services rendered is enclosed herein and/or in full within 30 days from the date invoiced. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for this Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/SK/LabTermsConditions.pdf

Shipping Method: UPS GSO WALK-IN FED EX Courier: _____
 Cooling Method: Wet Blue None
 Chilling Process Bagged Y/N _____
 Amount: _____ PIA# _____
 Custody Seal: Y/N _____
 Check # _____
 Cash # _____



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ <u>14.5.9</u> <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA | Were correct containers and preservatives received for the tests requested? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA | | | | | | | |
|---|---|--|--------------------|--|-----------|--------------|--------------------|--|--|
| | If samples were taken today, is there evidence that chilling has begun? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA | Were there bubbles in the VOA vials? (Volatiles Only) <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA | | | | | | | |
| | Did all bottles arrive unbroken and intact? <input checked="" type="radio"/> Yes <input type="radio"/> No | Was a sufficient amount of sample received? <input checked="" type="radio"/> Yes <input type="radio"/> No | | | | | | | |
| | Did all bottle labels agree with COC? <input checked="" type="radio"/> Yes <input type="radio"/> No | Do samples have a hold time <72 hours? <input type="radio"/> Yes <input checked="" type="radio"/> No | | | | | | | |
| Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> NA | Was PM notified of discrepancies? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> NA | | | | | | | | |
| PM: _____ By/Time: _____ | | | | | | | | | |
| 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | | | | |
| Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | | | |
| None (P) ^{White Cap} | — | — | | | | | | | |
| Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | Cl, pH > 8 | Y N | | | | | | | |
| Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW | pH 9.3-9.7 | Y N | | | | | | | |
| Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME*** | pH 9.0-9.5 | Y N | | | | | | | |
| HNO_3 (P) ^{Red Cap} | — | — | | | | | | | |
| H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y N | | | | | | | |
| NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y N | | | | | | | |
| $\text{NaOH} + \text{ZnAc}$ (P) | pH > 9 | Y N | | | | | | | |
| Dissolved Oxygen 300ml (g) | — | — | | | | | | | |
| None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | | | |
| HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | | | |
| $\text{Na}_2\text{O}_3\text{S} + \text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | | | | | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | | | | | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | — | — | | | | | | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | | | | | |
| $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | <input checked="" type="radio"/> Y <input type="radio"/> N | | | | | | | |
| NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | | | |
| EDA (AG) ^{Brown Label} DBPs | — | — | | | | | | | |
| HCL (CG) 524, 2, BTEX, Gas, MTBE, 8260/624 | — | — | | | | | | | |
| Buffer pH 4 (CG) | — | — | | | | | | | |
| None (CG) | — | — | | | | | | | |
| H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | | | |
| Other: | | | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | | |
| Low Level Hg / Metals Double Baggie | — | — | | | | | | | |
| Bottled Water | — | — | | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | | Container | Preservative | Date/Time/Initials | | |
| | S P | | | | S P | | | | |
| | S P | | | | S P | | | | |
| Comments | | | | | | | | | |
| | | | | | | | | | |

Handwritten signature and date: JG/30/15

Handwritten notes: 2C, 1C, 2C, 7V, 1V

Handwritten note: 3V

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

July 8, 2015

Ceres ID: 10715

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on July 2, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

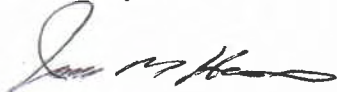
This work was authorized under M.B.A.'s Project # AB32387.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10715-001 | MW-9M (monitoring) | 7/2/2015 | 6/28/2015 10:20 |

Section II: Data Summary

| | | | | | | | | |
|--------------------------------|-------------------------|-----------------------|-------------------------|-------------------|---|------------|----------------------------|-------------------|
| Sample ID: Method Blank | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-MB001 | Date Received: | NA |
| Project: | AB32387 | | Sample Size: | 1.000 L | QC Batch #: | 1337 | Date Extracted: | 7-Jul-15 |
| | | | | | ZB-5 MS Analysis Date: | 8-Jul-15 | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c | Qualifiers |
| 2,3,7,8-TCDD | ND | 4.46 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 88.6 | 31 - 137 | |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 84.8 | 42 - 164 | |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|-----------------|--|--------------|---------------------------|-------------------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB32387 | | Sample Size: | 1.000 L | QC Batch #: | 1337 | Date Extracted: | 7-Jul-15 |
| | | | | | ZB-5 MS Analysis Date: | 8-Jul-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | | Labeled Standards | Conc. | Limits^a | Qualifiers |
| 2,3,7,8-TCDD | 9.44 | 7.3-14.6 | | | IS ¹³ C-2,3,7,8-TCDD | 90.7 | 25-141 | |
| | | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 9.23 | 3.7-15.8 | |
| | | | | | <i>a. Method acceptance criteria .</i> | | | |
| Analyst: JMH | | | | Reviewed by: BS | | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-9M (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10715-001 | | Date Received: 2-Jul-15 |
| Project: AB32387 | | | Sample Size: 1.044 L | | QC Batch #: 1337 | | Date Extracted: 7-Jul-15 |
| Date Collected: 28-Jun-15 | | | | | ZB-5 MS Analysis Date: 8-Jul-15 | | |
| Time Collected: 10:20 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 1.51 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 83.1 | 31 - 137 |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 82.1 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg. ___ of ___

Ceres Project ID: 10715
 Temperature: 25 °C

Reports and invoices will be delivered by email in .pdf format

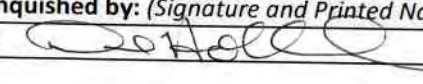
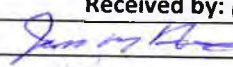
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|---|--|
| Company Name: <u>Monterey Bay Analytical</u> Contact Name: <u>David Holland</u> Address: <u>4 Justin Court Ste D Monterey CA 93940</u> Ph: <u>831-375-6227</u> Email: <u>mweidner@mbasinc.com</u> | Company Name: <u>Same</u> Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

- A: Aqueous S: Soil AS: Ash DW: Drinking Water
- E: Effluent SD: Sediment C: Clay SO: Solid
- I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF | | | |
|-----------|--------------------|-----------|------|--------|-----------------|----------|----------|-----------|----------|---------|-------|-----------------------------------|-----------------------------------|--------------------------------|--|
| | Date | Time | | | | | | | | | | <input type="checkbox"/> 1998 WHO | <input type="checkbox"/> 2005 WHO | <input type="checkbox"/> Other | |
| 1 | MW-9M (monitoring) | 6/28/2015 | 1020 | Aq | 1 | X | | | | | | | Comments | | |
| 2 | | | | | | | | | | | | | AB32387 | | |
| 3 | | | | | | | | | | | | | (2,3,7,8 TCDD only) | | |
| 4 | | | | | | | | | | | | | Please include excel report | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|--|--------|-------|
| D. Holland  | 7/1/2015 | 16:00 |  J M Hedrin | 7/1/15 | 09:15 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: 10715 | Date/Time: 7/2/15 09:15 |
| Client Project ID: AB32387 | Received Temperature: 3.5°C Acceptable: Y/N |
| Chain of Custody Relinquished by signed? | (Y)/N |
| Custody Seals? Present? | Y/N |
| Intact? | Y/N |
| NA: | (NA) |
| Unlabeled / Illegible Samples | Y/(N) |
| Proper Containers: | (Y)/N |
| Preservation Acceptable (Chemical or <u>Temperature</u>)? | (Y)/N |
| Drinking Water, Sodium Thiosulfate present? | Y/N/(NA) |
| List COC discrepancies: | 7/2/15 |
| List Damaged Samples: | 7/2/15 |

Ceres Analytical Laboratory

Process Request

Ceres ID: 10715 PB: 1337 Sample #: 1 Due Date: 7/17/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Sample Volume Calculation

Instructions:

1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$\text{Sample Volume} = (\text{Sample} + \text{Bottle Wt}) - \text{Empty Bottle Wt.}$$

| Ceres ID | Sample +Bottle Wt. | Empty Bottle Wt. | Sample Volume |
|----------|--------------------|------------------|---------------|
| 10715-1 | 1562.01g | 518.42g | 1.044L |
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Chemist:  Date: 7/7/15

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | | CSS | | AP | AB/AC | FC | RSS | |
|----------------|--------------------|------|--------|-------------------|-------------------|-------------------|-------------------|----|--------|----|-------------------|-------------------|
| | | | | chem/date/witness | chem/date/witness | chem/date/witness | chem/date/witness | | | | chem/date/witness | chem/date/witness |
| 0-1337-MB001 | Method Blank | | 1.000L | 2/2/15-DH | 2/2/15-DH | NA | 2/2/15 | NA | 2/2/15 | NA | 2/2/15 | DH |
| 0-1337-OPR001 | OPR | | 1.000L | (A) ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10715-1337-001 | MW-9M (monitoring) | ✓ | 1.044L | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
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Comments (A) OPR spiked with NSS.

Soxhlet Start: 14:00 7/7/15
 Soxhlet Stop: 07:00 7/8/15

Samples Logged out by: 10:27 7/7/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 17
 Extracts to Instrument: 09:49 7/8/15
 Extracts returned to Storage Location: 15:15 7/8/15

Chemist: [Signature]

Method: 1613B
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 100 | 2/11/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 200 | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|-----------------|----------|-----------|
| Toluene | 450ml | 146339 | 7/1/16 |
| Hexanes | 30, 30, 100, 20 | 150700 | 6/15/16 |
| S: Gel | 4g | P062315A | 12/23/15 |
| Basic Gel | 4g | P061915A | 12/19/15 |
| Acid Gel | 8g | P062415B | 12/24/15 |
| Acid A1 | 6g | P062415A | 12/24/15 |
| Na ₂ SO ₄ | 1.5g | P040515A | 10/15/15 |
| 20% Decm Hex | 30ml | L070915A | 1/5/16 |
| | | | |
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Chemist: 

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1507538

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: Geoscience

Project Received: 07/15/2015

Analytical Report reviewed & approved for release on 07/23/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: Geoscience
WorkOrder: 1507538

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Analytical Report

Client: Monterey Bay Analytical

WorkOrder: 1507538

Project: Geoscience

Extraction Method: E365.1

Date Received: 7/15/15 15:43

Analytical Method: E365.1

Date Prepared: 7/21/15

Unit: mg/L

Dissolved Phosphorous as P

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--------------------|--------------|--------|------------------|------------|----------|
| MW-9M (monitoring) | 1507538-001A | Water | 06/28/2015 10:20 | WC_SKALAR | 107793 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-------|----|------------------|
| Phosphorous, Dissolved (as P) | 0.062 | 0.040 | 1 | 07/22/2015 21:21 |

Analyst(s): JS



Quality Control Report

Client: Monterey Bay Analytical
Date Prepared: 7/20/15
Date Analyzed: 7/21/15
Instrument: WC_SKALAR
Matrix: Water
Project: Geoscience

WorkOrder: 1507538
BatchID: 107793
Extraction Method: E365.1
Analytical Method: E365.1
Unit: mg/L
Sample ID: MB/LCS-107793
 1507453-001AMS/MSD

QC Summary Report for E365.1

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|------------------------|-----------|------------|-------|---------|------------|----------|------------|
| Total Phosphorous as P | ND | 0.837 | 0.040 | 0.80 | - | 105 | 90-110 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Total Phosphorous as P | 1.05 | 1.08 | 0.80 | 0.3645 | 86.2 | 89.3 | 80-120 | 2.36 | 20 |



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1507538

ClientCode: MBAS

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

David Holland
 Monterey Bay Analytical
 4 Justin Court, Suite D
 Monterey, CA 93940
 831-375-6227 FAX: 831-641-0734

Email: mweidner@mbasinc.com; Dholland@mbas
 cc/3rd Party:
 PO:
 ProjectNo: Geoscience

Bill to:

Accounts Payable
 Monterey Bay Analytical
 4 Justin Court, Suite D
 Monterey, CA 93940

Requested TAT:

5 days

Date Received: **07/15/2015**

Date Printed: **07/15/2015**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | | |
|-------------|--------------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1507538-001 | MW-9M (monitoring) | Water | 6/28/2015 10:20 | <input type="checkbox"/> | A | | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|-------------|----|--|---|--|---|--|----|--|
| 1 | TotalP_Diss | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

QC Level: LEVEL 2

Work Order: 1507538

Project: Geoscience

Client Contact: David Holland

Date Received: 7/15/2015

Comments:

Contact's Email: mweidner@mbasinc.com; Dholland@mbasinc.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|--------------------|--------|--------------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1507538-001A | MW-9M (monitoring) | Water | E365.1 (Dissolved Phosphorous) | 1 | 250mL HDPE w/ HS04 | <input type="checkbox"/> | 6/28/2015 10:20 | 5 days | None | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1507538

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Report To: David Holland Bill To:

Company: Monterey Bay Analytical Services

4 Justin Ct. Suite D

Monterey, Ca 93940 E-Mail: mweidner@mbasinc.com

Tele: (831) 375 - 6227 Fax: (831) 641-0734

Project #: Project Name: Geoscience

Project Location: CalAm

Sampler Signature: Matan Salmon

Analysis Request

Other

Comments

- MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)
- MTBE / BTEX ONLY (EPA 602 / 8021)
- TPH as Diesel / Motor Oil (8015)
- Total Petroleum Oil & Grease (1664 / 5520 E/B&F)
- Total Petroleum Hydrocarbons (418.1)
- EPA 502.2 / 601 / 8010 / 8021 (HVOCs)
- EPA 505 / 608 / 8081 (CI Pesticides)
- EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners
- EPA 507 / 8141 (NP Pesticides)
- EPA 515 / 8151 (Acidic Cl Herbicides)
- EPA 524.2 / 624 / 8260 (VOCs)
- EPA 525.2 / 625 / 8270 (SVOCs)
- EPA 8270 SIM / 8310 (PAHs / PNAs)
- CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)
- LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)
- Lead (200.7 / 200.8 / 6010 / 6020)

- Total Dissolved Phosphorous
- (Samples filtered and preserved w/ H2SO4)

Filter Samples for Metals analysis: Yes / No

| SAMPLE ID | LOCATION/ Field Point Name | SAMPLING | | # Containers | Type Containers | MATRIX | | | | | METHOD PRESERVED | | | | | | | |
|-----------|----------------------------------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|---|--|
| | | Date | Time | | | Water | Soil | Air | Sludge | Other | ICE | HCL | HNO ₃ | Other | | | | |
| | MW-9M (monitoring) | 6/28/15 | 1020 | 1 | P | X | | | | | X | | | | | | X | |
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|---------------------------------|---------------|-------------|--------------|
| Relinquished By: David Holland/ | Date: 7/14/15 | Time: 16:00 | Received By: |
| Relinquished By: | Date: 7/15/15 | Time: 0830 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

ICE/t° 2.0

GOOD CONDITION _____

HEAD SPACE ABSENT _____

DECHLORINATED IN LAB _____

APPROPRIATE CONTAINERS _____

PRESERVED IN LAB _____

VOAS O&G METALS OTHER
PRESERVATION pH<2

COMMENTS: SpCond=44462uS/cm



Sample Receipt Checklist

Client Name: **Monterey Bay Analytical** Date and Time Received: **7/15/2015 3:43:48 PM**
 Project Name: **Geoscience** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1507538** Matrix: Water Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No
 (Ice Type: WET/BLU)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

 Comments:

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 07/13/15 11:44 |
| Attention: David Holland | Received Date: 07/01/15 09:45 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5G01016 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 07/01/15 09:45 with the Chain of Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

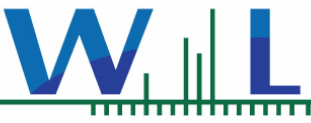
Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|--------------|------------|--------|----------------|
| MW-9M (monitoring) Comments: AB32387 | Matan Salmon | 5G01016-01 | Water | 06/28/15 10:20 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

5G01016-01 MW-9M (monitoring)

Sampled: 06/28/15 10:20

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32387

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5G0128

Prepared: 07/02/15 10:00

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 10 | ug/l | 1 | 07/02/15 13:53 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 508

Batch: W5G0076

Prepared: 07/02/15 12:50

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 07/06/15 22:51 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 07/06/15 22:51 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Endrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 07/06/15 22:51 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 07/06/15 22:51 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 07/06/15 22:51 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 07/06/15 22:51 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 07/06/15 22:51 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 07/06/15 22:51 | |
| Surr: Decachlorobiphenyl | 92 % | Conc:0.0925 | 70-130 | % | | |
| Surr: Tetrachloro-meta-xylene | 86 % | Conc:0.0858 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

5G01016-01 MW-9M (monitoring)

Sampled: 06/28/15 10:20

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32387

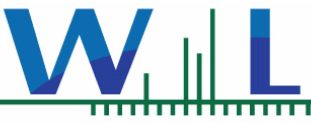
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Anions by IC, EPA Method 9056 - Quality Control

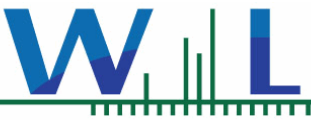
Batch W5G0128 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5G0128-BLK1) | | | | Analyzed: 07/02/15 11:27 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5G0128-BS1) | | | | Analyzed: 07/02/15 11:59 | | | | | | |
| Iodide | 42.7 | 10 | ug/l | 40.0 | | 107 | 85-115 | | | |
| Matrix Spike (W5G0128-MS1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 16:57 | | | | |
| Iodide | 41.9 | 10 | ug/l | 40.0 | ND | 105 | 80-120 | | | |
| Matrix Spike (W5G0128-MS2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:26 | | | | |
| Iodide | 54.2 | 10 | ug/l | 40.0 | 11.7 | 106 | 80-120 | | | |
| Matrix Spike Dup (W5G0128-MSD1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 17:11 | | | | |
| Iodide | 43.6 | 10 | ug/l | 40.0 | ND | 109 | 80-120 | 4 | 20 | |
| Matrix Spike Dup (W5G0128-MSD2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:41 | | | | |
| Iodide | 53.5 | 10 | ug/l | 40.0 | 11.7 | 104 | 80-120 | 1 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | Analyzed: 07/06/15 20:18 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |



Monterey Bay Analytical Services
 4 Justin Court, Suite D
 Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | | | | | | | |
| Analyzed: 07/06/15 20:18 | | | | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.108 | | ug/l | 0.100 | | 108 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0934 | | ug/l | 0.100 | | 93 | 70-130 | | | |
| LCS (W5G0076-BS1) | | | | | | | | | | |
| Analyzed: 07/06/15 20:48 | | | | | | | | | | |
| 4,4'-DDD | 0.0859 | 0.010 | ug/l | 0.100 | | 86 | 55-142 | | | |
| 4,4'-DDE | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 49-129 | | | |
| 4,4'-DDT | 0.100 | 0.010 | ug/l | 0.100 | | 100 | 54-160 | | | |
| Aldrin | 0.0872 | 0.010 | ug/l | 0.100 | | 87 | 29-115 | | | |
| alpha-BHC | 0.0936 | 0.010 | ug/l | 0.100 | | 94 | 59-131 | | | |
| beta-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 63-136 | | | |
| delta-BHC | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 59-137 | | | |
| Dieldrin | 0.0909 | 0.010 | ug/l | 0.100 | | 91 | 59-135 | | | |
| Endosulfan I | 0.0701 | 0.010 | ug/l | 0.100 | | 70 | 28-138 | | | |
| Endosulfan II | 0.0741 | 0.010 | ug/l | 0.100 | | 74 | 53-133 | | | |
| Endosulfan sulfate | 0.0783 | 0.010 | ug/l | 0.100 | | 78 | 58-155 | | | |
| Endrin | 0.0882 | 0.010 | ug/l | 0.100 | | 88 | 57-148 | | | |
| Endrin aldehyde | 0.0980 | 0.010 | ug/l | 0.100 | | 98 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.0908 | 0.010 | ug/l | 0.100 | | 91 | 59-129 | | | |
| Heptachlor | 0.0912 | 0.010 | ug/l | 0.100 | | 91 | 42-136 | | | |
| Heptachlor epoxide | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 59-134 | | | |
| Methoxychlor | 0.0773 | 0.010 | ug/l | 0.100 | | 77 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.100 | | ug/l | 0.100 | | 100 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0837 | | ug/l | 0.100 | | 84 | 70-130 | | | |
| LCS Dup (W5G0076-BSD1) | | | | | | | | | | |
| Analyzed: 07/06/15 21:19 | | | | | | | | | | |
| 4,4'-DDD | 0.0966 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | 12 | 25 | |
| 4,4'-DDE | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 49-129 | 11 | 25 | |
| 4,4'-DDT | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 54-160 | 11 | 25 | |
| Aldrin | 0.0981 | 0.010 | ug/l | 0.100 | | 98 | 29-115 | 12 | 25 | |
| alpha-BHC | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-131 | 13 | 25 | |
| beta-BHC | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 63-136 | 12 | 25 | |
| delta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 59-137 | 13 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5G0076 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|---------------|-------|-------------|--------------|---------------|------------|---------------|-----|-----------|-----------------|
| LCS Dup (W5G0076-BSD1) | | | | | | | | | | |
| Analyzed: 07/06/15 21:19 | | | | | | | | | | |
| Dieldrin | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 59-135 | 12 | 25 | |
| Endosulfan I | 0.0768 | 0.010 | ug/l | 0.100 | | 77 | 28-138 | 9 | 25 | |
| Endosulfan II | 0.0832 | 0.010 | ug/l | 0.100 | | 83 | 53-133 | 12 | 25 | |
| Endosulfan sulfate | 0.0895 | 0.010 | ug/l | 0.100 | | 90 | 58-155 | 13 | 25 | |
| Endrin | 0.0988 | 0.010 | ug/l | 0.100 | | 99 | 57-148 | 11 | 25 | |
| Endrin aldehyde | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 45-139 | 13 | 25 | |
| gamma-BHC (Lindane) | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-129 | 13 | 25 | |
| Heptachlor | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 42-136 | 13 | 25 | |
| Heptachlor epoxide | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-134 | 11 | 25 | |
| Methoxychlor | 0.0884 | 0.010 | ug/l | 0.100 | | 88 | 56-167 | 13 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.105</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>105</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0932</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>93</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Notes and Definitions

| | |
|--------------|---|
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | |
|---------------------------------|------------------------------------|--|---|---|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland Dissolved metals sample was filtered in the field using 0.45 um filter |

| | | |
|--|--|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|-------------------|--------------|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 32387 | | AR MW-9M | 6/28/15 | 1020 | 4.6 | | | | | | 22 | | | |
| | | | | | | | | | | | | | Field Parameters: | |
| | | | | | | | | | | | | | Temp: | 17.2°C |
| | | | | | | | | | | | | | pH: | 6.84 |
| | | | | | | | | | | | | | Sp Cond: | 444.62 µS/cm |
| | | | | | | | | | | | | | Turb: | 0.29 NTU |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|---------------|-----------|---------|--------|---|
| Sampled by: | Matan Salmon | | 6/28/15 | 1020am | Is sample for regulatory purposes? <input checked="" type="radio"/> Yes / <input type="radio"/> No |
| Relinquished by: | Matan Salmon | | 6/29/15 | 8:21 | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | Mollie Woodan | | 6/29/15 | 821 | |

[] Payment received Check # Amount: Receipt # Date:

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA <2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Comments

Filtrant divide 1L (0.45 μ membrane filter) \rightarrow 500mL H₂SO₄ + Na₂S₂O₃
 250mL H₂SO₄
 250mL NP



California American Water
 P.O. Box 951, Monterey, CA 93942-0951
 ph: 831-646-3259 / 831-646-3269
 Susy Jacobson

4 Justin Court Suite D, Monterey, CA 93940
 831.375.MBAS
 www.MBASinc.com

ELAP Certification Number: 2385

Lab Number: AB32340

Collection Date/Time: 6/25/2015 14:40 Sample Collector: SALMON M
 Submittal Date/Time: 6/25/2015 16:16 Sample ID

Sample Description: MW-9D

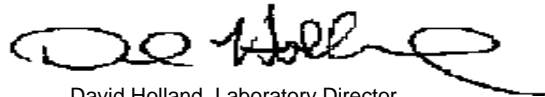
| Analyte | Method | Unit | Result | Qual | PQL | Date Analyzed | Analyst: |
|--|---------------|-------------|--------------|------|-------|---------------|----------|
| Alkalinity, Total (as CaCO3) | SM2320B | mg/L | 170 | | 2 | 7/7/2015 | LRH |
| Aluminum, Total | EPA200.8 | µg/L | Not Detected | | 10 | 7/2/2015 | SM |
| Ammonia-N, Dissolved | SM4500NH3 D | mg/L | Not Detected | | 0.05 | 6/30/2015 | TC |
| Arsenic, Total | EPA200.8 | µg/L | 2 | | 1 | 7/2/2015 | SM |
| Barium, Dissolved | EPA200.8 | µg/L | 59 | | 10 | 7/2/2015 | SM |
| Bicarbonate (as HCO3-) | SM2320B | mg/L | 207 | | 10 | 7/7/2015 | LJ |
| Boron, Dissolved | EPA200.7 | mg/L | 0.08 | | 0.05 | 7/1/2015 | MW |
| Bromide, Dissolved | EPA300.0 | mg/L | 0.2 | | 0.1 | 6/26/2015 | MW |
| Calcium | EPA200.7 | mg/L | 32 | | 0.5 | 7/1/2015 | MW |
| Calcium, Dissolved | EPA200.7 | mg/L | 35 | | 0.5 | 7/1/2015 | MW |
| Carbamates by HPLC (EPA 531) | EPA531 | µg/L | Not Detected | E | | 7/1/2015 | BSK |
| Carbonate as CaCO3 | SM2320B | mg/L | Not Detected | | 10 | 7/7/2015 | LJ |
| Chloride, Dissolved | EPA300.0 | mg/L | 74 | | 1 | 6/26/2015 | MW |
| Chlorinated Pesticides and PCB (EPA 508) | EPA508 | µg/L | Not Detected | E | | 7/6/2015 | WECK |
| Color, Apparent (Unfiltered) | SM2120B | Color Units | Not Detected | | 3 | 6/26/2015 | LRH |
| Copper | EPA200.7 | µg/L | 10 | | 10 | 7/1/2015 | MW |
| DBCP & EDB | EPA504.1 | µg/L | Not Detected | E | | 7/2/2015 | BSK |
| Dioxin | EPA 1613 | pg/L | Not Detected | E | | 7/8/2015 | CERES |
| Diquat (EPA 549) | EPA549 | µg/L | Not Detected | E | | 7/9/2015 | BSK |
| Dissolved Phosphorus | EPA 365.1 | mg/L | 0.12 | E | 0.040 | 7/22/2015 | MCCAM |
| Endothall | EPA548.1 | µg/L | Not Detected | E | | 7/5/2015 | BSK |
| Fluoride, Dissolved | EPA300.0 | mg/L | 0.3 | | 0.1 | 6/26/2015 | MW |
| Glyphosate | EPA547 | µg/L | Not Detected | E | | 7/6/2015 | BSK |
| Hardness (as CaCO3) | SM2340B/Calc | mg/L | 133 | | 10 | 7/6/2015 | TC |
| Hydroxide | SM2320B | mg/L | Not Detected | | 5 | 7/7/2015 | LJ |
| Iodide | EPA9056M | µg/L | Not Detected | E | 500 | 7/2/2015 | WECK |
| Iron | EPA200.7 | µg/L | 10 | | 10 | 7/1/2015 | MW |
| Iron, Dissolved | EPA200.7 | µg/L | Not Detected | | 10 | 7/1/2015 | MW |
| Kjehldahl Nitrogen, Dissolved | SM4500-NH3 B, | mg/L | Not Detected | | 0.5 | 7/7/2015 | TC |
| Lithium | EPA200.8 | µg/L | 38 | | 1 | 7/2/2015 | SM |
| Magnesium | EPA200.7 | mg/L | 13 | | 0.5 | 7/1/2015 | MW |

mg/L: Milligrams per liter (=ppm) µg/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

| | | | | | | |
|------------------------------------|-------------|----------|--------------|------|-----------|-----|
| Magnesium, Dissolved | EPA200.7 | mg/L | 13 | 0.5 | 7/1/2015 | MW |
| Manganese, Dissolved | EPA200.7 | µg/L | 247 | 10 | 7/1/2015 | MW |
| Manganese, Total | EPA200.7 | µg/L | 254 | 10 | 7/1/2015 | MW |
| MBAS (Surfactants) | SM5540C | mg/L | Not Detected | 0.05 | 6/26/2015 | HM |
| Nitrate as NO3 | EPA300.0 | mg/L | 2 | 1 | 6/26/2015 | MW |
| Nitrate+Nitrite as N | EPA300.0 | mg/L | 0.9 | 0.1 | 6/26/2015 | MW |
| Nitrite as NO2-N, Dissolved | EPA300.0 | mg/L | 0.3 | 0.1 | 6/26/2015 | MW |
| Odor Threshold at 60 C | SM2150B | TON | 1 | 1 | 6/26/2015 | LRH |
| o-Phosphate-P | Hach 8048 | mg/L | 0.06 | 0.01 | 6/26/2015 | LRH |
| pH (Field Test) | SM4500-H+B | pH | 7.44 | | 6/25/2015 | MS |
| pH (Laboratory) | SM4500-H+B | pH (H) | 7.5 | 0.1 | 6/25/2015 | LRH |
| Phenoxy Acid Herbicides (515.3) | EPA515.3 | µg/L | Not Detected | E | 7/2/2015 | BSK |
| Potassium | EPA200.7 | mg/L | 3.5 | 0.5 | 7/1/2015 | MW |
| Potassium, Dissolved | EPA200.7 | mg/L | 3.6 | 0.5 | 7/1/2015 | MW |
| QC Ratio TDS/SEC | Calculation | | 0.59 | | 7/2/2015 | HM |
| Reg. Org. Compounds (EPA 525) | EPA525 | µg/L | Not Detected | E | 7/7/2015 | BSK |
| Silica as SiO2, Dissolved | EPA200.7 | mg/L | 45 | 0.5 | 7/1/2015 | MW |
| Sodium | EPA200.7 | mg/L | 68 | 0.5 | 7/1/2015 | MW |
| Sodium, Dissolved | EPA200.7 | mg/L | 68 | 0.5 | 7/1/2015 | MW |
| Specific Conductance (E.C) | SM2510B | µmhos/cm | 624 | 1 | 6/30/2015 | LJ |
| Specific Conductance (E.C) (Field) | SM2510B | µmhos/cm | 574 | 1 | 6/25/2015 | MS |
| Strontium, Dissolved | EPA200.8 | µg/L | 273 | 5 | 7/2/2015 | SM |
| Sulfate, Dissolved | EPA300.0 | mg/L | 25 | 1 | 6/26/2015 | MW |
| Temperature (Field) | SM2550 | ° C | 21.2 | | 6/25/2015 | MS |
| Total Diss. Solids | SM2540C | mg/L | 366 | 10 | 6/30/2015 | HM |
| Turbidity | EPA180.1 | NTU | 0.10 | 0.05 | 6/26/2015 | LRH |
| Turbidity (Field) | EPA180.1 | NTU | 0.86 | 0.05 | 6/25/2015 | MS |
| Volatile Org. Compounds (524) | EPA524 | µg/L | Not Detected | E | 7/1/2015 | BSK |
| Zinc | EPA200.7 | µg/L | 22 | 10 | 7/1/2015 | MW |

Sample Comments:

Report Approved by:



David Holland, Laboratory Director

mg/L: Milligrams per liter (=ppm) ug/L : Micrograms per liter (=ppb) PQL : Practical Quantitation Limit J = Result is less than PQL
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See Report attachments.
 D = Method deviates from standard method due to insufficient sample for MS/MSD

**Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940**

SAMPLE ID 32340 Total

Dissolved

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 68 | 0.04350 | 2.96 |
| Potassium | 3.5 | 0.02558 | 0.09 |
| Calcium | 32 | 0.04990 | 1.60 |
| Magnesium | 13 | 0.08229 | 1.07 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 5.71 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 170 | 0.02000 | 3.40 |
| Sulfate | 25 | 0.02082 | 0.52 |
| Chloride | 74 | 0.02821 | 2.09 |
| Nitrate-Nitrogen | 0.6 | 0.07138 | 0.04 |
| Phosphate-P | 0.12 | 0.01031 | 0.00 |
| Bromide | 0.2 | 0.01252 | 0.00 |
| | | SUM | 6.05 |

ANION-CATION BALANC -3 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-----|-----|
| Conductivity | 624 | |
| Cation Sum X 100 | 571 | 92% |
| Anion Sum X 100 | 605 | 97% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

CORRECTNESS OF ANALYSIS

| CATION | MG/L | FACTOR | MEQ/L |
|-----------|------|---------|-------|
| Sodium | 68 | 0.04350 | 2.96 |
| Potassium | 3.6 | 0.02558 | 0.09 |
| Calcium | 35 | 0.04990 | 1.75 |
| Magnesium | 13 | 0.08229 | 1.07 |
| NH3-N | 0 | 0.07143 | 0.00 |
| | | SUM | 5.87 |

| ANION | MG/L | FACTOR | MEQ/L |
|------------------|------|---------|-------|
| Total Alkalinity | 170 | 0.02000 | 3.40 |
| Sulfate | 25 | 0.02082 | 0.52 |
| Chloride | 74 | 0.02821 | 2.09 |
| Nitrate-Nitrogen | 0.6 | 0.07138 | 0.04 |
| Phosphate-P | 0.12 | 0.01031 | 0.00 |
| Bromide | 0.2 | 0.01252 | 0.00 |
| | | SUM | 6.05 |

ANION-CATION BA -2 (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

| | | |
|------------------|-----|-----|
| Conductivity | 624 | |
| Cation Sum X 100 | 587 | 94% |
| Anion Sum X 100 | 605 | 97% |

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.



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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 6/30/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-------|-----------------|------------------|---------|--------------------------|------|
| ICVB | --- | 0.01 | --- | <0.05 | 1100 |
| ICVL | 0.050 | 0.04 | 80.00% | 90-110 | 1100 |
| ICV | 0.500 | 0.500 | 100.00% | 90-110 | 1100 |
| CCVB1 | --- | 0.11 | --- | <0.05 | 1130 |
| CCV1 | 0.500 | 0.490 | 98.00% | 90-110 | 1130 |
| CCVB2 | --- | 0.03 | --- | <0.05 | 1200 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32392 | ND | 0.500 | 0.500 | 0.510 | 100 | 102 | 2.0 | 85-120 | 10 | 1200 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check



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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 7/7/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|-----|-----------------|------------------|-------|--------------------------|-------|
| ICV | 40 | 41 | 103 | 95-105 | 9:02 |
| CCV | 40 | 40 | 100 | 95-105 | 10:58 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|------------------|-------------------------|-------|------------------------------|-------|
| AB32340 | 170 | 170 | 0 | 5 | 10:58 |

ICV= Initial Calibration Verification; CCV= Continuing Calibration Verification; RPD = Relative Percent Difference; Rec = Recovery



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Color QC Summary (SM 2120B)

Date Analyzed: 6/26/2015

| | Value (Color Units) | Result (Color Units) | % Rec | Acceptance Criteria %Rec | Time |
|------|---------------------|----------------------|-------|--------------------------|-------|
| ICVB | --- | <3 | --- | <3 | 10:16 |
| ICV | 5 | 5 | 100 | 80-120 | 10:16 |

| Sample ID | Sample (Color Units) | Sample Dup (Color Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|---------------------------|-------|
| AB32276 | Not Detected | Not Detected | NA | 10 | 10:16 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery



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MBAS QC Summary (SM 5540C)

Date Analyzed: 6/26/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|------|
| ICVB | --- | 0.002 | --- | <0.05 | 836 |
| ICVL | 0.050 | 0.047 | 94 | 80-120 | 838 |
| ICV | 0.250 | 0.259 | 103.6 | 80-120 | 1053 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | Time |
|---------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------|
| | | | | | | | | MS/MSD | RPD | |
| AB32340 | 0.011 | 0.250 | 0.24 | 0.242 | 91.6 | 92.4 | 0.8 | 80/120 | 10 | 1024 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent
 Difference; Rec = Recovery



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Orthophosphate QC Summary (Hach 8048)

Date: 6/25/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|-----------------|------------------|-------|--------------------------|-------|
| ICVB | --- | <0.01 | --- | < 0.01 | 11:33 |
| LCSL | 0.01 | 0.014 | 140 | 50-150 | 11:33 |
| ICV | 0.30 | 0.30 | 100 | 90-110 | 11:33 |
| QCS | 0.30 | 0.30 | 100 | 80-120 | 11:33 |
| CCV | 0.30 | 0.29 | 97 | 80-120 | 11:33 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | | MS Time | MSD Time |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|------------|----------|
| | | | | | | | | MS/MSD | RPD | | |
| AB32250 | 0.07 | 0.30 | 0.38 | 0.35 | 103 | 93 | 8 | 70-130 | 10 | 11:33 | 11:33 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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pH QC Summary (SM 4500 H+)

Date Analyzed: 6/25/2015

| | Value (pH Units) | Result (pH Units) | % Rec | Acceptance Criteria %Rec | Time |
|-----|------------------|-------------------|-------|--------------------------|-------|
| ICV | 6.86 | 6.89 | 100 | 95-105 | 16:45 |

| Sample ID | Sample (pH Units) | Sample Dup (pH Units) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|-------------------|-----------------------|-------|---------------------------|-------|
| AB32325 | 7.5 | 7.5 | 0 | 10 | 16:45 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery



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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 6/30/2015

| | Value (umhos/cm) | Result (umhos/cm) | % Rec | Acceptance Criteria %Rec | Time |
|-----|---------------------|----------------------|-------|-----------------------------|------|
| ICV | 1412 | 1408 | 99.7% | 95-105 | 1630 |

| Sample ID | Sample (umhos/cm) | Sample Dup (umhos/cm) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|----------------------|--------------------------|-------|------------------------------|------|
| AB32340 | 624 | 624 | 0.0% | 10 | 1630 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
 RPD = Relative Percent Difference; Rec = Recovery



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TDS QC Summary (SM 2540C)

Date Analyzed: 6/30/2015

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % | Time |
|------|--------------|---------------|-------|-----------------------|------|
| ICVB | --- | 6 | --- | <10 | 955 |
| ICVL | 100 | 97 | 97 | 80-120 | 955 |
| ICV | 500 | 506 | 101.2 | 90-110 | 955 |

| Sample ID | Sample (mg/L) | Sample Dup (mg/L) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|---------------|-------------------|-------|---------------------------|------|
| AB32389 | 2940 | 3046 | 3.5 | 10 | 1040 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery



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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 7/7/2015

Time: 1600

| | Value (mg/L) | Result (mg/L) | % Rec | Acceptance Criteria % |
|-----|-----------------|------------------|-------|--------------------------|
| LCB | --- | 0.095 | --- | <0.5 |
| LCS | 5.0 | 4.9 | 98 | 90-110 |

| Spiked Sample ID | Sample (mg/L) | Spiked (mg/L) | MS (mg/L) | MSD (mg/L) | MS % Rec | MSD % Rec | MS-MSD % RPD | Acceptance Criteria % | |
|------------------|------------------|------------------|--------------|---------------|-------------|--------------|-----------------|-----------------------|-----|
| | | | | | | | | MS/MSD | RPD |
| AB32315 | ND | 5.0 | 4.6 | 4.9 | 92 | 98 | 6.3 | 85-120 | 10 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;

RPD = Relative Percent Difference; Rec = Recovery



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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 6/26/2015

| | Value (NTU) | Result (NTU) | % Rec | Acceptance Criteria %Rec | Time |
|------|-------------|--------------|-------|--------------------------|------|
| ICVB | --- | <0.05 | --- | <0.05 | 9:00 |
| ICV | 1.00 | 1.03 | 103% | 95-105 | 9:00 |

| Sample ID | Sample (NTU) | Sample Dup (NTU) | % RPD | Acceptance Criteria % RPD | Time |
|-----------|--------------|------------------|-------|---------------------------|------|
| AB32307 | 0.05 | 0.05 | 0% | 10 | 9:40 |

ICV= Initial Calibration Verification, ICVB= Initial Calibration Verification Blank;
 RPD = Relative Percent Difference; Rec = Recovery

Batch # 20150701b

| Analyte/ WL | Range | IC | Prep | LCS | %Rec | LCS | %Rec | %Diff | IC Verification | | | QCS (95-105%) | | |
|----------------|--------------|-------|-------|-------|---------|-------|---------|-------|-----------------|--------|--------|---------------|--------|--------|
| | | Blank | Blank | Value | 85-115% | Value | 85-115% | | Value | Result | %Rec | Value | Result | %Rec |
| B 249.678 | 0.05-5ppm | 0.01 | 0.00 | 1.02 | 101.6% | 1.04 | 104.0% | 2.4% | 1 | 1.00 | 100.0% | 1 | 1.0 | 99.8% |
| B 249.772 | 0.05-5ppm | 0.01 | 0.01 | 1.01 | 101.2% | 1.04 | 104.4% | 3.2% | 1 | 1.00 | 100.4% | 1 | 1.0 | 99.5% |
| Ca 317.933 | 50-300ppm | -5.93 | -5.98 | 49.8 | 99.6% | 50.2 | 100.4% | 0.8% | 50 | 48.1 | 96.2% | 50 | 47.1 | 94.2% |
| Ca 396.847 | 0.5-50ppm | -0.36 | -0.41 | 50.3 | 100.6% | 46.6 | 93.2% | 7.7% | 50 | 49.7 | 99.4% | 50 | 49.2 | 98.4% |
| Cu 324.754 | 10ppb-100ppm | 2.20 | 1.43 | 1021 | 102.1% | 1046 | 104.6% | 2.5% | 1000 | 1000 | 100.0% | 1000 | 988.1 | 98.8% |
| Cu 327.395 | 10ppb-100ppm | 3.47 | 4.69 | 1027 | 102.7% | 1047 | 104.7% | 1.9% | 1000 | 996 | 99.6% | 1000 | 985.3 | 98.5% |
| Fe 238.204 | 10ppb-100ppm | 2.22 | 1.05 | 1010 | 101.0% | 1029 | 102.9% | 2.0% | 1000 | 1004 | 100.4% | 1000 | 995.1 | 99.5% |
| Fe 259.940 | 10ppb-100ppm | 3.07 | 6.13 | 997 | 99.7% | 1017 | 101.7% | 2.0% | 1000 | 992 | 99.2% | 1000 | 988.1 | 98.8% |
| K 766.491 | 0.5-750ppm | -0.07 | -0.08 | 10.0 | 100.1% | 10.3 | 103.1% | 2.9% | 10 | 9.9 | 98.7% | 10 | 9.8 | 97.8% |
| Mg 202.582 | 50-1000ppm | -2.15 | -2.19 | 50.7 | 101.3% | 51.7 | 103.3% | 2.0% | 50 | 49.9 | 99.8% | 50 | 49.4 | 98.9% |
| Mg 279.078 | 0.5-50ppm | 0.24 | 0.18 | 50.4 | 100.9% | 51.7 | 103.3% | 2.4% | 50 | 49.9 | 99.7% | 50 | 49.4 | 98.8% |
| Mn 257.610 | 10ppb-11ppm | 2.97 | 1.96 | 1012 | 101.2% | 1027 | 102.7% | 1.5% | 1000 | 995 | 99.5% | 1000 | 996.9 | 99.7% |
| Mn 260.568 | 10ppb-11ppm | 2.02 | 1.43 | 1009 | 100.9% | 1029 | 102.9% | 1.9% | 1000 | 994 | 99.4% | 1000 | 995.0 | 99.5% |
| Na 568.821 | 50-1000ppm | 0.53 | 0.59 | 49.6 | 99.1% | 50.4 | 100.8% | 1.7% | 50 | 48.9 | 97.8% | 50 | 48.9 | 97.8% |
| Na 589.592 | 0.5-50ppm | 0.27 | 0.23 | 49.8 | 99.5% | 51.8 | 103.5% | 3.9% | 50 | 49.5 | 98.9% | 50 | 49.3 | 98.5% |
| Si 251.611 | 0.5-200ppm | 0.30 | 0.12 | 50.4 | 100.9% | 51.4 | 102.7% | 1.8% | 50 | 50.0 | 100.0% | 50 | 50.1 | 100.3% |
| Si 252.411 | 0.5-200ppm | 0.33 | 0.15 | 50.3 | 100.6% | 51.2 | 102.4% | 1.8% | 50 | 50.1 | 100.2% | 50 | 50.2 | 100.4% |
| Zn 213.857 | 10ppb-50ppm | -4.67 | -5.37 | 1005 | 100.5% | 1013 | 101.3% | 0.8% | 1000 | 988 | 98.8% | 1000 | 989.3 | 98.9% |

Sample ID AB32346

| Analyte/ WL | Sample Value | MS | %Rec | MSD | %Rec | %Diff | CCV (90-110%) | | | %Diff | CC |
|----------------|-----------------|-------|---------|-------|---------|-------|---------------|--------|--------|-------|-------|
| | | Value | 70-130% | Value | 70-130% | | Value | Result | %Rec | 10% | Blank |
| B 249.678 | 0.04 | 1.04 | 99.6% | 1.03 | 98.8% | 0.8% | 1 | 1.00 | 100.1% | 0.1% | 0.00 |
| B 249.772 | 0.05 | 1.03 | 98.0% | 1.03 | 98.7% | 0.6% | 1 | 1.00 | 100.1% | 0.4% | 0.01 |
| Ca 317.933 | 20.7 | 73.3 | 105.3% | 73.3 | 105.2% | 0.1% | 50 | 48.4 | 96.8% | 0.6% | -5.95 |
| Ca 396.847 | 25.6 | 70.2 | 89.2% | 70.2 | 89.4% | 0.1% | 50 | 49.6 | 99.2% | 0.2% | -0.38 |
| Cu 324.754 | 3 | 978 | 97.5% | 976 | 97.3% | 0.2% | 1000 | 993 | 99.3% | 0.7% | 1.97 |
| Cu 327.395 | 6 | 975 | 96.9% | 978 | 97.2% | 0.3% | 1000 | 992 | 99.2% | 0.3% | 4.07 |
| Fe 238.204 | 7 | 1010 | 100.3% | 992 | 98.5% | 1.8% | 1000 | 1005 | 100.5% | 0.1% | 1.95 |
| Fe 259.940 | 6 | 999 | 99.3% | 981 | 97.5% | 1.8% | 1000 | 996 | 99.6% | 0.5% | 1.78 |
| K 766.491 | 1.4 | 11.2 | 98.1% | 11.2 | 98.4% | 0.3% | 10 | 9.8 | 98.5% | 0.2% | -0.07 |
| Mg 202.582 | 7.9 | 58.3 | 100.9% | 58.5 | 101.3% | 0.4% | 50 | 49.8 | 99.6% | 0.2% | -2.17 |
| Mg 279.078 | 9.9 | 58.3 | 96.8% | 58.2 | 96.6% | 0.2% | 50 | 49.9 | 99.9% | 0.2% | 0.21 |
| Mn 257.610 | 2 | 978 | 97.6% | 981 | 97.9% | 0.3% | 1000 | 996 | 99.6% | 0.1% | 2.44 |
| Mn 260.568 | 2 | 982 | 98.0% | 983 | 98.1% | 0.1% | 1000 | 997 | 99.7% | 0.4% | 1.94 |
| Na 568.821 | 93.2 | 139.8 | 93.2% | 139.3 | 92.2% | 0.4% | 50 | 47.9 | 95.8% | 2.0% | 0.62 |
| Na 589.592 | 93.0 | 138.5 | 91.1% | 136.4 | 86.7% | 1.6% | 50 | 49.0 | 97.9% | 1.0% | 0.26 |
| Si 251.611 | 33.2 | 80.5 | 94.7% | 80.7 | 95.1% | 0.2% | 50 | 50.1 | 100.2% | 0.3% | 0.13 |
| Si 252.411 | 33.1 | 80.4 | 94.5% | 80.5 | 94.8% | 0.2% | 50 | 50.1 | 100.2% | 0.0% | 0.14 |
| Zn 213.857 | 10 | 975 | 96.5% | 972 | 96.2% | 0.2% | 1000 | 993 | 99.3% | 1% | -4.04 |

4 Justin Court Ste D, Monterey, CA 93940

831.375.MBAS (6227), 831.641.0734 (Fax)

MontereyBayAnalytical@usa.net

<http://www.MBASinc.com>

300.0 QC Report

All units expressed in mg/L

Batch ID:

20150626

| | F | Cl | NO2-N | SO4 | Br | NO3-N |
|--------------------------|----------|-----------|--------------|------------|-----------|--------------|
| Spike amount | 2 | 20 | 2 | 20 | 2 | 2 |
| ICVB | 0.00 | 0.03 | 0.03 | 0.02 | 0.00 | 0.00 |
| ICV | 1.97 | 19.87 | 2.10 | 20.51 | 1.81 | 1.92 |
| Rec 90-110% | 98.55 | 99.35 | 104.99 | 102.54 | 90.75 | 96.17 |
| ICVL | 0.19 | 1.74 | 0.20 | 1.68 | 0.22 | 0.21 |
| Rec 50-150% | 95.74 | 87.17 | 100.53 | 84.19 | 112.39 | 105.21 |
| Sample ID AB32348 | 0.52 | 751.53 | 0.17 | 14.69 | 1.25 | 24.33 |
| MS | 2.39 | 778.68 | 2.18 | 34.50 | 3.28 | 26.03 |
| Rec 80-120% | 93.32 | 135.75 | 100.27 | 99.05 | 101.55 | 84.98 |
| MSD | 2.51 | 753.06 | 2.17 | 33.88 | 3.26 | 25.20 |
| Rec 80-120% | 99.61 | 7.66 | 100.14 | 95.94 | 100.14 | 43.40 |
| Diff 10% | 5.14 | 3.35 | 0.12 | 1.82 | 0.86 | 3.25 |
| CCV | 2.07 | 20.35 | 2.09 | 20.85 | 1.88 | 2.03 |
| Rec 90-110% | 103.35 | 101.75 | 104.55 | 104.25 | 93.83 | 101.72 |
| Diff 10% | 4.75 | 2.39 | 0.42 | 1.65 | 3.34 | 5.61 |
| CCVB | 0.06 | 0.03 | 0.04 | 0.00 | 0.00 | 0.07 |



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5F2587

7/10/2015

Invoice: A514223

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A5F2587 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/30/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

| Project and Report Details | Invoice Details |
|----------------------------|-----------------|
|----------------------------|-----------------|

| | |
|--|---|
| Client: Monterey Bay Analytical Report To: David Holland Project #: - Received: 6/30/2015 - 12:00 Report Due: 7/15/2015 | Invoice To: Monterey Bay Analytical Invoice Attn: David Holland Project PO#: - |
|--|---|

Sample Receipt Conditions

| | |
|--|--|
| Cooler: Default Cooler Temperature on Receipt °C: 1.4 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Sample(s) arrived at lab on same day sampled. Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|--|

| | |
|--|--|
| Cooler: New Cooler Temperature on Receipt °C: 5.9 | Containers Intact COC/Labels Agree Received On Wet Ice Received On Blue Ice Sample(s) arrived at lab on same day sampled. Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-FAL |
|--|--|

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- BS Blank spike recoveries did not meet acceptance limits.
- BS1.0 Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.
- MS2.0 MS/MSD RPD exceeds control limit. No material impact as both sets of recovery data meet control criteria.

Report Distribution

| Recipient(s) | Report Format | CC: |
|---------------|---------------|-----|
| David Holland | FINAL.RPT | |
| Mason Weidner | FINAL.RPT | |

Certificate of Analysis

Sample ID: A5F2587-01
Sampled By: Matan Salmon
Sample Description: MW-9D (monitoring) // AB32340

Sample Date - Time: 06/25/15 - 14:40
Matrix: Ground Water
Sample Type: Grab

BSK Associates Fresno
Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|------|
| <u>EDB and DBCP by GC-ECD</u> | | | | | | | | | |
| Dibromochloropropane (DBCP) | EPA 504.1 | ND | 0.010 | ug/L | 1 | A507286 | 07/01/15 | 07/02/15 | |
| Ethylene Dibromide (EDB) | EPA 504.1 | ND | 0.020 | ug/L | 1 | A507286 | 07/01/15 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | EPA 504.1 | 102 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Chlorinated Acid Herbicides by GC-ECD</u> | | | | | | | | | |
| 2,4,5-T | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| 2,4,5-TP (Silvex) | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| 2,4-D | EPA 515.3 | ND | 10 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Bentazon | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dalapon | EPA 515.3 | ND | 10 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dicamba | EPA 515.3 | ND | 1.5 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Dinoseb | EPA 515.3 | ND | 2.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Pentachlorophenol | EPA 515.3 | ND | 0.20 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Picloram | EPA 515.3 | ND | 1.0 | ug/L | 1 | A507269 | 06/30/15 | 07/02/15 | |
| Surrogate: DCPAA | EPA 515.3 | 99 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Volatile Organics by GC-MS</u> | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,1-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1,2-Trichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,1-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,3-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,4-Trichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2,4-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3,5-Trimethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,3-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 1,4-Dichlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2,2-Dichloropropane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Butanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 2-Hexanone | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 4-Chlorotoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| 4-Methyl-2-pentanone | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Acetone | EPA 524.2 | ND | 10 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Benzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |

Certificate of Analysis

Sample ID: A5F2587-01
Sampled By: Matan Salmon
Sample Description: MW-9D (monitoring) // AB32340

Sample Date - Time: 06/25/15 - 14:40
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|--------------------------------------|-----------|--------|------|-------|-----------------------------------|---------|----------|----------|-------|
| Volatile Organics by GC-MS | | | | | | | | | |
| Bromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromodichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromoform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Bromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | BS1.0 |
| Carbon Tetrachloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chlorobenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloroethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloroform | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Chloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| cis-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| cis-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dibromochloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dibromomethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dichlorodifluoromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Dichloromethane | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Di-isopropyl ether (DIPE) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Ethylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Hexachlorobutadiene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Isopropylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| m,p-Xylenes | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Methyl-t-butyl ether | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Naphthalene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| n-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| n-Propylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| o-Xylene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| p-Isopropyltoluene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| sec-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Styrene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | EPA 524.2 | ND | 3.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Butyl alcohol (TBA) | EPA 524.2 | ND | 2.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| tert-Butylbenzene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Tetrachloroethene (PCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Toluene | EPA 524.2 | 2.2 | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| trans-1,2-Dichloroethene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| trans-1,3-Dichloropropene | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Trichloroethene (TCE) | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Trichlorofluoromethane | EPA 524.2 | ND | 5.0 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Vinyl Chloride | EPA 524.2 | ND | 0.50 | ug/L | 1 | A507280 | 06/30/15 | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | EPA 524.2 | 95 % | | | <i>Acceptable range: 70-130 %</i> | | | | |
| Surrogate: Bromofluorobenzene | EPA 524.2 | 98 % | | | <i>Acceptable range: 70-130 %</i> | | | | |
| Total 1,3-Dichloropropene, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Trihalomethanes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |
| Total Xylenes, EPA 524.2 | | ND | 0.50 | ug/L | | | | | |

Certificate of Analysis

Sample ID: A5F2587-01
Sampled By: Matan Salmon
Sample Description: MW-9D (monitoring) // AB32340

Sample Date - Time: 06/25/15 - 14:40
Matrix: Ground Water
Sample Type: Grab

Organics

| Analyte | Method | Result | RL | Units | RL Mult | Batch | Prepared | Analyzed | Qual |
|---|-----------|--------|-----------------------------------|-------|---------|---------|----------|----------|-------|
| <u>Semi-Volatile Organics by GC-MS</u> | | | | | | | | | |
| Alachlor | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Atrazine | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Benzo(a)pyrene | EPA 525.2 | ND | 0.10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | BS1.0 |
| Bis(2-ethylhexyl) adipate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Bis(2-ethylhexyl) phthalate | EPA 525.2 | ND | 3.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Bromacil | EPA 525.2 | ND | 10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | BS1.0 |
| Butachlor | EPA 525.2 | ND | 0.38 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Diazinon | EPA 525.2 | ND | 0.25 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Dimethoate | EPA 525.2 | ND | 10 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Metolachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Metribuzin | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Molinate | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Prometryn | EPA 525.2 | ND | 2.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Propachlor | EPA 525.2 | ND | 0.50 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Simazine | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Thiobencarb | EPA 525.2 | ND | 1.0 | ug/L | 1 | A507341 | 07/02/15 | 07/07/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | EPA 525.2 | 92 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| 3-Hydroxycarbofuran | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb Sulfone | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Aldicarb Sulfoxide | EPA 531.1 | ND | 3.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Carbaryl | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Carbofuran | EPA 531.1 | ND | 5.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Methomyl | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Oxamyl | EPA 531.1 | ND | 20 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| <u>Carbamates by HPLC</u> | | | | | | | | | |
| Methiocarb | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| Propoxur | EPA 531.1 | ND | 2.0 | ug/L | 1 | A507267 | 06/30/15 | 07/01/15 | |
| <u>Glyphosate by HPLC</u> | | | | | | | | | |
| Glyphosate | EPA 547 | ND | 25 | ug/L | 1 | A507422 | 07/06/15 | 07/06/15 | |
| Surrogate: AMPA | EPA 547 | 82 % | <i>Acceptable range: 70-130 %</i> | | | | | | |
| <u>Endothall by GC-MS</u> | | | | | | | | | |
| Endothall | EPA 548.1 | ND | 45 | ug/L | 1 | A507403 | 07/02/15 | 07/05/15 | |
| <u>Diquat by HPLC</u> | | | | | | | | | |
| Diquat | EPA 549.2 | ND | 4.0 | ug/L | 1 | A507404 | 07/02/15 | 07/09/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 504.1 - Quality Control

Batch: A507286

Prepared: 07/01/2015

Prep Method: EPA 505

Analyst: AAR

Blank (A507286-BLK1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | ND | 0.010 | ug/L | | | | | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | ND | 0.020 | ug/L | | | | | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 103 | 70-130 | | | 07/02/15 | |

Blank Spike (A507286-BS1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | | 101 | 70-130 | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | | 94 | 70-130 | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.48 | | | 0.46 | | 105 | 70-130 | | | 07/02/15 | |

Blank Spike Dup (A507286-BSD1)

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|--|-----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.19 | 0.010 | ug/L | 0.20 | | 97 | 70-130 | 5 | 20 | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.18 | 0.020 | ug/L | 0.20 | | 92 | 70-130 | 2 | 20 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 103 | 70-130 | | | 07/02/15 | |

Matrix Spike (A507286-MS1), Source: A5F2509-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|-----|--------|--|--|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 97 | 65-135 | | | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.20 | 0.020 | ug/L | 0.20 | ND | 96 | 65-135 | | | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.47 | | | 0.46 | | 102 | 70-130 | | | 07/02/15 | |

Matrix Spike Dup (A507286-MSD1), Source: A5F2509-01

| | | | | | | | | | | | |
|--------------------------------|------|-------|------|------|----|----|--------|---|----|----------|--|
| Dibromochloropropane (DBCP) | 0.20 | 0.010 | ug/L | 0.20 | ND | 97 | 65-135 | 1 | 20 | 07/02/15 | |
| Ethylene Dibromide (EDB) | 0.19 | 0.020 | ug/L | 0.20 | ND | 95 | 65-135 | 1 | 20 | 07/02/15 | |
| Surrogate: 1-Br-2-Nitrobenzene | 0.46 | | | 0.47 | | 99 | 70-130 | | | 07/02/15 | |

EPA 515.3 - Quality Control

Batch: A507269

Prepared: 06/30/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank (A507269-BLK1)

| | | | | | | | | | | | |
|-------------------|----|------|------|----|--|----|--------|--|--|----------|--|
| 2,4,5-T | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| 2,4,5-TP (Silvex) | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| 2,4-D | ND | 10 | ug/L | | | | | | | 07/02/15 | |
| Bentazon | ND | 2.0 | ug/L | | | | | | | 07/02/15 | |
| Dalapon | ND | 10 | ug/L | | | | | | | 07/02/15 | |
| Dicamba | ND | 1.5 | ug/L | | | | | | | 07/02/15 | |
| Dinoseb | ND | 2.0 | ug/L | | | | | | | 07/02/15 | |
| Pentachlorophenol | ND | 0.20 | ug/L | | | | | | | 07/02/15 | |
| Picloram | ND | 1.0 | ug/L | | | | | | | 07/02/15 | |
| Surrogate: DCPAA | 57 | | | 58 | | 98 | 70-130 | | | 07/02/15 | |

Blank Spike (A507269-BS1)

| | | | | | | | | | | | |
|-------------------|------|-----|------|------|--|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.4 | 1.0 | ug/L | 4.0 | | 110 | 70-130 | | | 07/01/15 | |
| 2,4,5-TP (Silvex) | 0.88 | 1.0 | ug/L | 0.80 | | 111 | 70-130 | | | 07/01/15 | |
| 2,4-D | 0.43 | 10 | ug/L | 0.40 | | 108 | 70-130 | | | 07/01/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | | 102 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 515.3 - Quality Control

Batch: A507269

Prepared: 06/30/2015

Prep Method: EPA 515.3

Analyst: AAR

Blank Spike (A507269-BS1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|--|--|----------|--|
| Dalapon | 4.6 | 10 | ug/L | 4.0 | | 115 | 70-130 | | | 07/01/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 107 | 70-130 | | | 07/01/15 | |
| Dinoseb | 0.83 | 2.0 | ug/L | 0.80 | | 103 | 70-130 | | | 07/01/15 | |
| Pentachlorophenol | 0.16 | 0.20 | ug/L | 0.16 | | 101 | 70-130 | | | 07/01/15 | |
| Picloram | 0.50 | 1.0 | ug/L | 0.40 | | 124 | 70-130 | | | 07/01/15 | |
| Surrogate: DCPAA | 58 | | | 58 | | 99 | 70-130 | | | 07/01/15 | |

Blank Spike Dup (A507269-BSD1)

| | | | | | | | | | | | |
|-------------------|------|------|------|------|--|-----|--------|----|----|----------|--|
| 2,4,5-T | 4.3 | 1.0 | ug/L | 4.0 | | 107 | 70-130 | 3 | 20 | 07/02/15 | |
| 2,4,5-TP (Silvex) | 0.89 | 1.0 | ug/L | 0.80 | | 112 | 70-130 | 1 | 20 | 07/02/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | | 110 | 70-130 | 2 | 20 | 07/02/15 | |
| Bentazon | 8.4 | 2.0 | ug/L | 8.0 | | 105 | 70-130 | 3 | 20 | 07/02/15 | |
| Dalapon | 4.6 | 10 | ug/L | 4.0 | | 115 | 70-130 | 0 | 20 | 07/02/15 | |
| Dicamba | 6.4 | 1.5 | ug/L | 6.0 | | 107 | 70-130 | 0 | 20 | 07/02/15 | |
| Dinoseb | 0.84 | 2.0 | ug/L | 0.80 | | 105 | 70-130 | 1 | 20 | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | | 103 | 70-130 | 2 | 20 | 07/02/15 | |
| Picloram | 0.40 | 1.0 | ug/L | 0.40 | | 101 | 70-130 | 20 | 20 | 07/02/15 | |
| Surrogate: DCPAA | 59 | | | 58 | | 101 | 70-130 | | | 07/02/15 | |

Matrix Spike (A507269-MS1), Source: A5F2292-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|--|--|----------|--|
| 2,4,5-T | 4.7 | 1.0 | ug/L | 4.0 | ND | 117 | 70-130 | | | 07/02/15 | |
| 2,4,5-TP (Silvex) | 0.87 | 1.0 | ug/L | 0.80 | ND | 108 | 70-130 | | | 07/02/15 | |
| 2,4-D | 0.46 | 10 | ug/L | 0.40 | ND | 114 | 70-130 | | | 07/02/15 | |
| Bentazon | 8.1 | 2.0 | ug/L | 8.0 | ND | 101 | 70-130 | | | 07/02/15 | |
| Dalapon | 4.8 | 10 | ug/L | 4.0 | ND | 119 | 70-130 | | | 07/02/15 | |
| Dicamba | 6.1 | 1.5 | ug/L | 6.0 | ND | 102 | 70-130 | | | 07/02/15 | |
| Dinoseb | 0.81 | 2.0 | ug/L | 0.80 | ND | 102 | 70-130 | | | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 105 | 70-130 | | | 07/02/15 | |
| Picloram | 0.41 | 1.0 | ug/L | 0.40 | ND | 103 | 70-130 | | | 07/02/15 | |
| Surrogate: DCPAA | 60 | | | 58 | | 103 | 70-130 | | | 07/02/15 | |

Matrix Spike Dup (A507269-MSD1), Source: A5F2292-01

| | | | | | | | | | | | |
|-------------------|------|------|------|------|----|-----|--------|----|----|----------|-------|
| 2,4,5-T | 4.5 | 1.0 | ug/L | 4.0 | ND | 114 | 70-130 | 3 | 20 | 07/02/15 | |
| 2,4,5-TP (Silvex) | 1.0 | 1.0 | ug/L | 0.80 | ND | 127 | 70-130 | 16 | 20 | 07/02/15 | |
| 2,4-D | 0.44 | 10 | ug/L | 0.40 | ND | 111 | 70-130 | 3 | 20 | 07/02/15 | |
| Bentazon | 8.2 | 2.0 | ug/L | 8.0 | ND | 102 | 70-130 | 1 | 20 | 07/02/15 | |
| Dalapon | 5.0 | 10 | ug/L | 4.0 | ND | 126 | 70-130 | 6 | 20 | 07/02/15 | |
| Dicamba | 6.3 | 1.5 | ug/L | 6.0 | ND | 106 | 70-130 | 3 | 20 | 07/02/15 | |
| Dinoseb | 0.84 | 2.0 | ug/L | 0.80 | ND | 105 | 70-130 | 3 | 20 | 07/02/15 | |
| Pentachlorophenol | 0.17 | 0.20 | ug/L | 0.16 | ND | 104 | 70-130 | 1 | 20 | 07/02/15 | |
| Picloram | 0.51 | 1.0 | ug/L | 0.40 | ND | 128 | 70-130 | 22 | 20 | 07/02/15 | MS2.0 |
| Surrogate: DCPAA | 60 | | | 58 | | 103 | 70-130 | | | 07/02/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507280-BLK1)

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|--|--|--|--|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2-Butanone | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 2-Hexanone | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Acetone | ND | 10 | ug/L | | | | | | | 07/01/15 | |
| Benzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Carbon Tetrachloride | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Dichloromethane | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank (A507280-BLK1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| m,p-Xylenes | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Methyl-t-butyl ether | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Styrene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| tert-Butyl alcohol (TBA) | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Tetrachloroethene (PCE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Toluene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Trichloroethene (TCE) | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Vinyl Chloride | ND | 0.50 | ug/L | | | | | | | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 98 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 50 | | | 50 | | 101 | 70-130 | | | 07/01/15 | |

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 9.3 | 0.50 | ug/L | 10 | | 93 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | 10 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,2-Dichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 1,3-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| 1,4-Dichlorobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 2,2-Dichloropropane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| 2-Butanone | 9.5 | 5.0 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |

BSK Associates Fresno
Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|--|-----|--------|--|--|----------|---------|
| 2-Chlorotoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| 2-Hexanone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 4-Chlorotoluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| 4-Methyl-2-pentanone | 9.5 | 5.0 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |
| Acetone | 9.7 | 10 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| Benzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Bromobenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| Bromochloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Bromodichloromethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 110 | 70-130 | | | 07/01/15 | |
| Bromomethane | 14 | 0.50 | ug/L | 10 | | 136 | 70-130 | | | 07/01/15 | BS High |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 103 | 70-130 | | | 07/01/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/01/15 | |
| Chlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| Chloroethane | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| Chloroform | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Chloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| cis-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | | | 07/01/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Dichlorodifluoromethane | 10 | 0.50 | ug/L | 10 | | 104 | 70-130 | | | 07/01/15 | |
| Dichloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| Ethylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Hexachlorobutadiene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Isopropylbenzene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |
| m,p-Xylenes | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | | | 07/01/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 99 | 70-130 | | | 07/01/15 | |
| Naphthalene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | | | 07/01/15 | |
| n-Butylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | | | 07/01/15 | |
| n-Propylbenzene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| o-Xylene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | | | 07/01/15 | |
| p-Isopropyltoluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| sec-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Styrene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | | | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.3 | 3.0 | ug/L | 10 | | 93 | 70-130 | | | 07/01/15 | |
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| tert-Butylbenzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Tetrachloroethene (PCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | | | 07/01/15 | |
| Toluene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | | | 07/01/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | | | 07/01/15 | |
| Trichloroethene (TCE) | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike (A507280-BS1)

| | | | | | | | | | | | |
|-----------------------------------|----|------|------|----|--|-----|--------|--|--|----------|--|
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 109 | 70-130 | | | 07/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 107 | 70-130 | | | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 95 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 96 | 70-130 | | | 07/01/15 | |

Blank Spike Dup (A507280-BSD1)

| | | | | | | | | | | | |
|---------------------------------------|-----|------|------|----|--|-----|--------|---|----|----------|---------|
| 1,1,1,2-Tetrachloroethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,1-Trichloroethane | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 9.8 | 10 | ug/L | 10 | | 98 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1,2-Trichloroethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,1-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,1-Dichloroethene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,1-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 3 | 30 | 07/01/15 | |
| 1,2-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 07/01/15 | |
| 1,2-Dichloroethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 1,3-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| 1,3-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| 1,4-Dichlorobenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| 2,2-Dichloropropane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Butanone | 9.3 | 5.0 | ug/L | 10 | | 93 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 07/01/15 | |
| 2-Hexanone | 9.5 | 10 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| 4-Chlorotoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| 4-Methyl-2-pentanone | 9.6 | 5.0 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Acetone | 9.3 | 10 | ug/L | 10 | | 93 | 70-130 | 4 | 30 | 07/01/15 | |
| Benzene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| Bromobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Bromochloromethane | 9.5 | 0.50 | ug/L | 10 | | 95 | 70-130 | 5 | 30 | 07/01/15 | |
| Bromodichloromethane | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| Bromoform | 11 | 0.50 | ug/L | 10 | | 108 | 70-130 | 2 | 30 | 07/01/15 | |
| Bromomethane | 13 | 0.50 | ug/L | 10 | | 135 | 70-130 | 1 | 30 | 07/01/15 | BS High |
| Carbon disulfide | 10 | 10 | ug/L | 10 | | 101 | 70-130 | 2 | 30 | 07/01/15 | |
| Carbon Tetrachloride | 10 | 0.50 | ug/L | 10 | | 101 | 70-130 | 1 | 30 | 07/01/15 | |
| Chlorobenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Chloroethane | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 2 | 30 | 07/01/15 | |
| Chloroform | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Chloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| cis-1,2-Dichloroethene | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 0 | 30 | 07/01/15 | |
| cis-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Blank Spike Dup (A507280-BSD1)

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|--|-----|--------|----|----|----------|--|
| Dibromochloromethane | 10 | 0.50 | ug/L | 10 | | 102 | 70-130 | 1 | 30 | 07/01/15 | |
| Dibromomethane | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 0 | 30 | 07/01/15 | |
| Dichlorodifluoromethane | 10 | 0.50 | ug/L | 10 | | 103 | 70-130 | 1 | 30 | 07/01/15 | |
| Dichloromethane | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 5 | 30 | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 10 | 3.0 | ug/L | 10 | | 100 | 70-130 | 0 | 30 | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Ethylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 1 | 30 | 07/01/15 | |
| Hexachlorobutadiene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 3 | 30 | 07/01/15 | |
| Isopropylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 3 | 30 | 07/01/15 | |
| m,p-Xylenes | 19 | 0.50 | ug/L | 20 | | 97 | 70-130 | 3 | 30 | 07/01/15 | |
| Methyl-t-butyl ether | 20 | 0.50 | ug/L | 20 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Naphthalene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 5 | 30 | 07/01/15 | |
| n-Butylbenzene | 9.4 | 0.50 | ug/L | 10 | | 94 | 70-130 | 1 | 30 | 07/01/15 | |
| n-Propylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| o-Xylene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| p-Isopropyltoluene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 2 | 30 | 07/01/15 | |
| sec-Butylbenzene | 9.7 | 0.50 | ug/L | 10 | | 97 | 70-130 | 2 | 30 | 07/01/15 | |
| Styrene | 9.2 | 0.50 | ug/L | 10 | | 92 | 70-130 | 5 | 30 | 07/01/15 | |
| tert-Amyl Methyl Ether (TAME) | 9.5 | 3.0 | ug/L | 10 | | 95 | 70-130 | 2 | 30 | 07/01/15 | |
| tert-Butyl alcohol (TBA) | 8.9 | 2.0 | ug/L | 10 | | 89 | 70-130 | 12 | 30 | 07/01/15 | |
| tert-Butylbenzene | 9.6 | 0.50 | ug/L | 10 | | 96 | 70-130 | 3 | 30 | 07/01/15 | |
| Tetrachloroethene (PCE) | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| Toluene | 9.8 | 0.50 | ug/L | 10 | | 98 | 70-130 | 1 | 30 | 07/01/15 | |
| trans-1,2-Dichloroethene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 2 | 30 | 07/01/15 | |
| trans-1,3-Dichloropropene | 10 | 0.50 | ug/L | 10 | | 100 | 70-130 | 1 | 30 | 07/01/15 | |
| Trichloroethene (TCE) | 9.9 | 0.50 | ug/L | 10 | | 99 | 70-130 | 1 | 30 | 07/01/15 | |
| Trichlorofluoromethane | 11 | 5.0 | ug/L | 10 | | 107 | 70-130 | 2 | 30 | 07/01/15 | |
| Vinyl Chloride | 11 | 0.50 | ug/L | 10 | | 106 | 70-130 | 1 | 30 | 07/01/15 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 48 | | | 50 | | 96 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 48 | | | 50 | | 97 | 70-130 | | | 07/01/15 | |

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|---------------------------------------|----|------|------|----|----|-----|--------|--|--|----------|--|
| 1,1,1,2-Tetrachloroethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| 1,1,1-Trichloroethane | 12 | 0.50 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| 1,1,2,2-Tetrachloroethane | 10 | 0.50 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | 10 | ug/L | 10 | ND | 121 | 70-130 | | | 07/01/15 | |
| 1,1,2-Trichloroethane | 11 | 0.50 | ug/L | 10 | ND | 110 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloroethene | 12 | 0.50 | ug/L | 10 | ND | 116 | 70-130 | | | 07/01/15 | |
| 1,1-Dichloropropene | 12 | 0.50 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| 1,2,3-Trichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 106 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 105 | 70-130 | | | 07/01/15 | |
| 1,2,4-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| 1,2-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 106 | 70-130 | | | 07/01/15 | |
| 1,2-Dichloroethane | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |

BSK Associates Fresno
Organics Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|-------------------------------|-----|------|------|----|----|-----|--------|--|--|----------|------------|
| 1,2-Dichloropropane | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| 1,3,5-Trimethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 114 | 70-130 | | | 07/01/15 | |
| 1,3-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| 1,3-Dichloropropane | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 1,4-Dichlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 107 | 70-130 | | | 07/01/15 | |
| 2,2-Dichloropropane | 12 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| 2-Butanone | 10 | 5.0 | ug/L | 10 | ND | 102 | 70-130 | | | 07/01/15 | |
| 2-Chlorotoluene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 2-Hexanone | 10 | 10 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| 4-Chlorotoluene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| 4-Methyl-2-pentanone | 10 | 5.0 | ug/L | 10 | ND | 102 | 70-130 | | | 07/01/15 | |
| Acetone | 8.9 | 10 | ug/L | 10 | ND | 89 | 70-130 | | | 07/01/15 | |
| Benzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Bromobenzene | 10 | 0.50 | ug/L | 10 | ND | 104 | 70-130 | | | 07/01/15 | |
| Bromochloromethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| Bromodichloromethane | 11 | 0.50 | ug/L | 10 | ND | 108 | 70-130 | | | 07/01/15 | |
| Bromoform | 8.6 | 0.50 | ug/L | 10 | ND | 86 | 70-130 | | | 07/01/15 | |
| Bromomethane | 9.4 | 0.50 | ug/L | 10 | ND | 94 | 70-130 | | | 07/01/15 | |
| Carbon disulfide | 12 | 10 | ug/L | 10 | ND | 119 | 70-130 | | | 07/01/15 | |
| Carbon Tetrachloride | 12 | 0.50 | ug/L | 10 | ND | 118 | 70-130 | | | 07/01/15 | |
| Chlorobenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| Chloroethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Chloroform | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Chloromethane | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| cis-1,2-Dichloroethene | 11 | 0.50 | ug/L | 10 | ND | 114 | 70-130 | | | 07/01/15 | |
| cis-1,3-Dichloropropene | 9.5 | 0.50 | ug/L | 10 | ND | 95 | 70-130 | | | 07/01/15 | |
| Dibromochloromethane | 9.9 | 0.50 | ug/L | 10 | ND | 99 | 70-130 | | | 07/01/15 | |
| Dibromomethane | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Dichlorodifluoromethane | 13 | 0.50 | ug/L | 10 | ND | 134 | 70-130 | | | 07/01/15 | MS1.0 High |
| Dichloromethane | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Di-isopropyl ether (DIPE) | 11 | 3.0 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Ethyl tert-Butyl Ether (ETBE) | 12 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Ethylbenzene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| Hexachlorobutadiene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Isopropylbenzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| m,p-Xylenes | 23 | 0.50 | ug/L | 20 | ND | 114 | 70-130 | | | 07/01/15 | |
| Methyl-t-butyl ether | 22 | 0.50 | ug/L | 20 | ND | 111 | 70-130 | | | 07/01/15 | |
| Naphthalene | 9.9 | 0.50 | ug/L | 10 | ND | 99 | 70-130 | | | 07/01/15 | |
| n-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 109 | 70-130 | | | 07/01/15 | |
| n-Propylbenzene | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| o-Xylene | 11 | 0.50 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |
| p-Isopropyltoluene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| sec-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 115 | 70-130 | | | 07/01/15 | |
| Styrene | 14 | 0.50 | ug/L | 10 | ND | 142 | 70-130 | | | 07/01/15 | MS1.0 High |
| tert-Amyl Methyl Ether (TAME) | 11 | 3.0 | ug/L | 10 | ND | 113 | 70-130 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 524.2 - Quality Control

Batch: A507280

Prepared: 07/01/2015

Prep Method: no prep-volatiles

Analyst: JGB

Matrix Spike (A507280-MS1), Source: A5F2589-01

| | | | | | | | | | | | |
|-----------------------------------|-----|------|------|----|----|-----|--------|--|--|----------|------------|
| tert-Butyl alcohol (TBA) | 10 | 2.0 | ug/L | 10 | ND | 103 | 70-130 | | | 07/01/15 | |
| tert-Butylbenzene | 11 | 0.50 | ug/L | 10 | ND | 111 | 70-130 | | | 07/01/15 | |
| Tetrachloroethene (PCE) | 12 | 0.50 | ug/L | 10 | ND | 120 | 70-130 | | | 07/01/15 | |
| Toluene | 11 | 0.50 | ug/L | 10 | ND | 112 | 70-130 | | | 07/01/15 | |
| trans-1,2-Dichloroethene | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| trans-1,3-Dichloropropene | 8.9 | 0.50 | ug/L | 10 | ND | 89 | 70-130 | | | 07/01/15 | |
| Trichloroethene (TCE) | 12 | 0.50 | ug/L | 10 | ND | 117 | 70-130 | | | 07/01/15 | |
| Trichlorofluoromethane | 13 | 5.0 | ug/L | 10 | ND | 132 | 70-130 | | | 07/01/15 | MS1.0 High |
| Vinyl Chloride | 13 | 0.50 | ug/L | 10 | ND | 132 | 70-130 | | | 07/01/15 | MS1.0 High |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49 | | | 50 | | 98 | 70-130 | | | 07/01/15 | |
| Surrogate: Bromofluorobenzene | 49 | | | 50 | | 99 | 70-130 | | | 07/01/15 | |

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank (A507341-BLK1)

| | | | | | | | | | | | |
|--|-----|------|------|-----|--|-----|--------|--|--|----------|--|
| Alachlor | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Atrazine | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Benzo(a)pyrene | ND | 0.10 | ug/L | | | | | | | 07/06/15 | |
| Bis(2-ethylhexyl) adipate | ND | 3.0 | ug/L | | | | | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | ND | 3.0 | ug/L | | | | | | | 07/06/15 | |
| Bromacil | ND | 10 | ug/L | | | | | | | 07/06/15 | |
| Butachlor | ND | 0.38 | ug/L | | | | | | | 07/06/15 | |
| Diazinon | ND | 0.25 | ug/L | | | | | | | 07/06/15 | |
| Dimethoate | ND | 10 | ug/L | | | | | | | 07/06/15 | |
| Metolachlor | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Metribuzin | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Molinate | ND | 2.0 | ug/L | | | | | | | 07/06/15 | |
| Prometryn | ND | 2.0 | ug/L | | | | | | | 07/06/15 | |
| Propachlor | ND | 0.50 | ug/L | | | | | | | 07/06/15 | |
| Simazine | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Thiobencarb | ND | 1.0 | ug/L | | | | | | | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 108 | 70-130 | | | 07/06/15 | |

Blank Spike (A507341-BS1)

| | | | | | | | | | | | |
|-----------------------------|------|------|------|------|--|-----|--------|--|--|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | | | 07/06/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.50 | | 115 | 70-130 | | | 07/06/15 | |
| Benzo(a)pyrene | 0.19 | 0.10 | ug/L | 0.10 | | 193 | 70-130 | | | 07/06/15 | BS High |
| Bis(2-ethylhexyl) adipate | 2.1 | 3.0 | ug/L | 2.0 | | 106 | 70-130 | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.7 | 3.0 | ug/L | 1.5 | | 116 | 70-130 | | | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 1.0 | | 136 | 70-130 | | | 07/06/15 | BS High |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 111 | 70-130 | | | 07/06/15 | |
| Diazinon | 0.16 | 0.25 | ug/L | 0.20 | | 82 | 70-130 | | | 07/06/15 | |
| Dimethoate | 1.2 | 10 | ug/L | 1.0 | | 117 | 70-130 | | | 07/06/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Blank Spike (A507341-BS1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|--|--|----------|--|
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 110 | 70-130 | | | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 116 | 70-130 | | | 07/06/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 1.0 | | 103 | 70-130 | | | 07/06/15 | |
| Prometryn | 1.9 | 2.0 | ug/L | 2.0 | | 93 | 70-130 | | | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | | 107 | 70-130 | | | 07/06/15 | |
| Simazine | 0.36 | 1.0 | ug/L | 0.35 | | 103 | 70-130 | | | 07/06/15 | |
| Thiobencarb | 0.56 | 1.0 | ug/L | 0.50 | | 113 | 70-130 | | | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.1 | | | 5.0 | | 103 | 70-130 | | | 07/06/15 | |

Blank Spike Dup (A507341-BSD1)

| | | | | | | | | | | | |
|--|------|------|------|------|--|-----|--------|----|----|----------|---------|
| Alachlor | 1.1 | 1.0 | ug/L | 1.0 | | 106 | 70-130 | 1 | 30 | 07/06/15 | |
| Atrazine | 0.49 | 0.50 | ug/L | 0.50 | | 99 | 70-130 | 15 | 30 | 07/06/15 | |
| Benzo(a)pyrene | 0.19 | 0.10 | ug/L | 0.10 | | 193 | 70-130 | 0 | 30 | 07/06/15 | BS High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 2.0 | | 111 | 70-130 | 5 | 30 | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.8 | 3.0 | ug/L | 1.5 | | 117 | 70-130 | 1 | 30 | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 1.0 | | 137 | 70-130 | 1 | 30 | 07/06/15 | BS High |
| Butachlor | 1.1 | 0.38 | ug/L | 1.0 | | 107 | 70-130 | 4 | 30 | 07/06/15 | |
| Diazinon | 0.18 | 0.25 | ug/L | 0.20 | | 90 | 70-130 | 9 | 30 | 07/06/15 | |
| Dimethoate | 1.1 | 10 | ug/L | 1.0 | | 113 | 70-130 | 4 | 30 | 07/06/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 2.0 | | 109 | 70-130 | 1 | 30 | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 1.0 | | 116 | 70-130 | 0 | 30 | 07/06/15 | |
| Molinate | 1.1 | 2.0 | ug/L | 1.0 | | 109 | 70-130 | 5 | 30 | 07/06/15 | |
| Prometryn | 2.1 | 2.0 | ug/L | 2.0 | | 104 | 70-130 | 11 | 30 | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.50 | | 108 | 70-130 | 1 | 30 | 07/06/15 | |
| Simazine | 0.35 | 1.0 | ug/L | 0.35 | | 101 | 70-130 | 3 | 30 | 07/06/15 | |
| Thiobencarb | 0.55 | 1.0 | ug/L | 0.50 | | 109 | 70-130 | 3 | 30 | 07/06/15 | |
| Surrogate: 1,3-Dimethyl-2-nitrobenzene | 5.4 | | | 5.0 | | 108 | 70-130 | | | 07/06/15 | |

Matrix Spike (A507341-MS1), Source: A5F2610-01

| | | | | | | | | | | | |
|-----------------------------|------|------|------|-------|----|-----|--------|--|--|----------|------------|
| Alachlor | 1.2 | 1.0 | ug/L | 0.97 | ND | 120 | 70-130 | | | 07/06/15 | |
| Atrazine | 0.57 | 0.50 | ug/L | 0.49 | ND | 118 | 70-130 | | | 07/06/15 | |
| Benzo(a)pyrene | 0.18 | 0.10 | ug/L | 0.097 | ND | 184 | 70-130 | | | 07/06/15 | MS1.0 High |
| Bis(2-ethylhexyl) adipate | 2.2 | 3.0 | ug/L | 1.9 | ND | 113 | 70-130 | | | 07/06/15 | |
| Bis(2-ethylhexyl) phthalate | 1.6 | 3.0 | ug/L | 1.5 | ND | 112 | 70-130 | | | 07/06/15 | |
| Bromacil | 1.4 | 10 | ug/L | 0.97 | ND | 142 | 70-130 | | | 07/06/15 | MS1.0 High |
| Butachlor | 1.2 | 0.38 | ug/L | 0.97 | ND | 121 | 70-130 | | | 07/06/15 | |
| Diazinon | 0.19 | 0.25 | ug/L | 0.19 | ND | 99 | 70-130 | | | 07/06/15 | |
| Dimethoate | 1.2 | 10 | ug/L | 0.97 | ND | 120 | 70-130 | | | 07/06/15 | |
| Metolachlor | 2.2 | 0.50 | ug/L | 1.9 | ND | 113 | 70-130 | | | 07/06/15 | |
| Metribuzin | 1.2 | 0.50 | ug/L | 0.97 | ND | 124 | 70-130 | | | 07/06/15 | |
| Molinate | 1.0 | 2.0 | ug/L | 0.97 | ND | 104 | 70-130 | | | 07/06/15 | |
| Prometryn | 2.0 | 2.0 | ug/L | 1.9 | ND | 101 | 70-130 | | | 07/06/15 | |
| Propachlor | 0.54 | 0.50 | ug/L | 0.49 | ND | 112 | 70-130 | | | 07/06/15 | |
| Simazine | 0.38 | 1.0 | ug/L | 0.34 | ND | 112 | 70-130 | | | 07/06/15 | |
| Thiobencarb | 0.57 | 1.0 | ug/L | 0.49 | ND | 117 | 70-130 | | | 07/06/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 525.2 - Quality Control

Batch: A507341

Prepared: 07/02/2015

Prep Method: EPA 525.2

Analyst: MTM

Matrix Spike (A507341-MS1), Source: A5F2610-01

Surrogate: 1,3-Dimethyl-2-nitrobenzene 4.9 4.9 100 70-130 07/06/15

EPA 531.1 - Quality Control

Batch: A507267

Prepared: 06/30/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Blank (A507267-BLK1)

| | | | | | | | | | | | |
|---------------------|----|-----|------|--|--|--|--|--|--|----------|--|
| 3-Hydroxycarbofuran | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb Sulfone | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Aldicarb Sulfoxide | ND | 3.0 | ug/L | | | | | | | 07/01/15 | |
| Carbaryl | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Carbofuran | ND | 5.0 | ug/L | | | | | | | 07/01/15 | |
| Methiocarb | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Methomyl | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |
| Oxamyl | ND | 20 | ug/L | | | | | | | 07/01/15 | |
| Propoxur | ND | 2.0 | ug/L | | | | | | | 07/01/15 | |

Blank Spike (A507267-BS1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.1 | 3.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Aldicarb | 3.6 | 3.0 | ug/L | 4.0 | | 91 | 80-120 | | | 07/01/15 | |
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | | 101 | 80-120 | | | 07/01/15 | |
| Aldicarb Sulfoxide | 4.1 | 3.0 | ug/L | 4.0 | | 103 | 80-120 | | | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | | 106 | 80-120 | | | 07/01/15 | |
| Methiocarb | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Methomyl | 3.9 | 2.0 | ug/L | 4.0 | | 97 | 80-120 | | | 07/01/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |
| Propoxur | 4.1 | 2.0 | ug/L | 4.0 | | 102 | 80-120 | | | 07/01/15 | |

Blank Spike Dup (A507267-BSD1)

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|--|-----|--------|----|----|----------|--|
| 3-Hydroxycarbofuran | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 07/01/15 | |
| Aldicarb | 3.6 | 3.0 | ug/L | 4.0 | | 90 | 80-120 | 1 | 20 | 07/01/15 | |
| Aldicarb Sulfone | 3.9 | 2.0 | ug/L | 4.0 | | 98 | 80-120 | 2 | 20 | 07/01/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | | 100 | 80-120 | 3 | 20 | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | | 102 | 80-120 | 1 | 20 | 07/01/15 | |
| Carbofuran | 4.0 | 5.0 | ug/L | 4.0 | | 99 | 80-120 | 6 | 20 | 07/01/15 | |
| Methiocarb | 3.4 | 2.0 | ug/L | 4.0 | | 85 | 80-120 | 17 | 20 | 07/01/15 | |
| Methomyl | 4.0 | 2.0 | ug/L | 4.0 | | 100 | 80-120 | 4 | 20 | 07/01/15 | |
| Oxamyl | 4.0 | 20 | ug/L | 4.0 | | 100 | 80-120 | 2 | 20 | 07/01/15 | |
| Propoxur | 3.9 | 2.0 | ug/L | 4.0 | | 96 | 80-120 | 6 | 20 | 07/01/15 | |

Matrix Spike (A507267-MS1), Source: A5F2371-01

| | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| 3-Hydroxycarbofuran | 4.2 | 3.0 | ug/L | 4.0 | ND | 105 | 65-135 | | | 07/01/15 | |
| Aldicarb | 3.7 | 3.0 | ug/L | 4.0 | ND | 93 | 65-135 | | | 07/01/15 | |

**BSK Associates Fresno
Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 531.1 - Quality Control

Batch: A507267

Prepared: 06/30/2015

Prep Method: EPA 531.1

Analyst: ZZZ

Matrix Spike (A507267-MS1), Source: A5F2371-01

| | | | | | | | | | | | |
|--------------------|-----|-----|------|-----|----|-----|--------|--|--|----------|--|
| Aldicarb Sulfone | 4.0 | 2.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 07/01/15 | |
| Aldicarb Sulfoxide | 4.0 | 3.0 | ug/L | 4.0 | ND | 99 | 65-135 | | | 07/01/15 | |
| Carbaryl | 4.1 | 5.0 | ug/L | 4.0 | ND | 102 | 65-135 | | | 07/01/15 | |
| Carbofuran | 4.2 | 5.0 | ug/L | 4.0 | ND | 105 | 65-135 | | | 07/01/15 | |
| Methiocarb | 4.2 | 2.0 | ug/L | 4.0 | ND | 89 | 65-135 | | | 07/01/15 | |
| Methomyl | 4.4 | 2.0 | ug/L | 4.0 | ND | 109 | 65-135 | | | 07/01/15 | |
| Oxamyl | 4.1 | 20 | ug/L | 4.0 | ND | 101 | 65-135 | | | 07/01/15 | |
| Propoxur | 4.0 | 2.0 | ug/L | 4.0 | ND | 100 | 65-135 | | | 07/01/15 | |

EPA 547 - Quality Control

Batch: A507422

Prepared: 07/06/2015

Prep Method: EPA 547

Analyst: WPR

Blank (A507422-BLK1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | ND | 25 | ug/L | | | | | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike (A507422-BS1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|--|--|----------|--|
| Glyphosate | 91 | 25 | ug/L | 100 | | 91 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 104 | 70-130 | | | 07/06/15 | |

Blank Spike Dup (A507422-BSD1)

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|--|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | | 117 | 70-130 | 25 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

Matrix Spike (A507422-MS1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|----|----|------|-----|----|----|--------|--|--|----------|--|
| Glyphosate | 88 | 25 | ug/L | 100 | ND | 87 | 70-130 | | | 07/06/15 | |
| Surrogate: AMPA | 96 | | | 100 | | 94 | 70-130 | | | 07/06/15 | |

Matrix Spike Dup (A507422-MSD1), Source: A5F2424-01

| | | | | | | | | | | | |
|-----------------|-----|----|------|-----|----|-----|--------|----|----|----------|--|
| Glyphosate | 120 | 25 | ug/L | 100 | ND | 114 | 70-130 | 27 | 30 | 07/06/15 | |
| Surrogate: AMPA | 100 | | | 100 | | 102 | 70-130 | | | 07/06/15 | |

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 07/02/2015

Prep Method: EPA 548.1

Analyst: MTM

Blank (A507403-BLK1)

| | | | | | | | | | | | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|
| Endothall | ND | 45 | ug/L | | | | | | | 07/05/15 | |
|-----------|----|----|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507403-BS1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|
| Endothall | 18 | 45 | ug/L | 20 | | 92 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507403-BSD1)

| | | | | | | | | | | | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|
| Endothall | 22 | 45 | ug/L | 20 | | 110 | 46-116 | 18 | 30 | 07/05/15 | |
|-----------|----|----|------|----|--|-----|--------|----|----|----------|--|

**BSK Associates Fresno
 Organics Quality Control Report**

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 548.1 - Quality Control

Batch: A507403

Prepared: 07/02/2015

Prep Method: EPA 548.1

Analyst: MTM

Matrix Spike (A507403-MS1), Source: A5F2319-01

| | | | | | | | | | | | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|
| Endothall | 20 | 45 | ug/L | 20 | ND | 98 | 46-116 | | | 07/05/15 | |
|-----------|----|----|------|----|----|----|--------|--|--|----------|--|

EPA 549.2 - Quality Control

Batch: A507404

Prepared: 07/02/2015

Prep Method: EPA 549.2

Analyst: PYA

Blank (A507404-BLK1)

| | | | | | | | | | | | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|
| Diquat | ND | 0.40 | ug/L | | | | | | | 07/09/15 | |
|--------|----|------|------|--|--|--|--|--|--|----------|--|

Blank Spike (A507404-BS1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|
| Diquat | 3.6 | 0.40 | ug/L | 4.0 | | 90 | 70-130 | | | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A507404-BSD1)

| | | | | | | | | | | | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|
| Diquat | 3.5 | 0.40 | ug/L | 4.0 | | 88 | 70-130 | 2 | 30 | 07/09/15 | |
|--------|-----|------|------|-----|--|----|--------|---|----|----------|--|

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

| | | | | | |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | MDL: | Method Detection Limit | MDA95: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit: DL x Dilution | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | ND: | None Detected at RL | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | pCi/L: | Picocuries per Liter | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | RL Mult: | RL Multiplier | Present: | 1 or more CFU/100mLs |
| NR: | Non-Reportable | MCL: | Maximum Contaminant Limit | | |

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

| | | | |
|----------------------------|---------------|-------------------------|---------|
| State of California - ELAP | 1180 | State of Hawaii | 4021 |
| State of Nevada | CA000792015-1 | State of Oregon - NELAC | 4021 |
| EPA - UCMR3 | CA00079 | State of Washington | C997-15 |

Sacramento

| | |
|----------------------------|------|
| State of California - ELAP | 2435 |
|----------------------------|------|

Vancouver

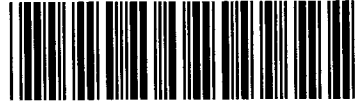
| | | | |
|-------------------------|----------|---------------------|----------|
| State of Oregon - NELAC | WA100008 | State of Washington | C824-14a |
|-------------------------|----------|---------------------|----------|



A5F2587



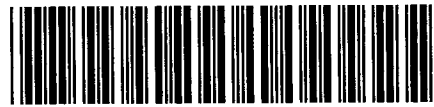
06302015



Monte6227

Turnaround: Standard

Due Date: 7/15/2015



Monterey Bay Analytical



BSK Associates & Laboratories

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

1455

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ASFF2587
 Monte6227



06/30/2013
 10

***Required Fields**

Temp:

Company/Client Name: **Monterey Bay Analytical Services**
 Report Attention: **Mason Weidner-Holland**
 Additional cc's: **David Holland**
 Invoice To: **David Holland**
 PO#: _____

Address: **4 Justin Court, Suite D**
 City: **Monterey** State: **CA** Zip: **93940**
 Project: **Cal Am** Project #: _____

Reporting Options:
 Trace (J-Flag) Swamp EDO Type: _____
 Regulatory Carbon Copies
 SWRCB (Drinking Water) Fresno Co
 Madera Co Tulare Co
 Other: _____
 Regulatory Compliance
 E-Mail Fax Mail
 EDT to California SWRCB (Drinking Water)
 System Number: _____
 How would you like to receive your completed results?
 Geotracker #: _____
 DW=Drinking Water SO=Solid

Sampler Name (Printed/Signature): **Matan Salmon**
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: _____
 Comments / Station Code / WTRAX: **AB32340**

| # | Sample Description* | Sampled* | | Matrix* | EPA # |
|---|---------------------|----------|------|---------|---------|
| | | Date | Time | | |
| 1 | MW-9D (monitoring) | 6/25/15 | 1440 | GW | EPA 524 |
| | | | | | EPA 504 |
| | | | | | EPA 515 |
| | | | | | EPA 525 |
| | | | | | EPA 531 |
| | | | | | EPA 547 |
| | | | | | EPA 548 |
| | | | | | EPA 549 |

Relinquished by: (Signature and Printed Name) **D. Holland** Company: **MBAS** Date: **6/29/15** Time: **1600**
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Company: _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Company: _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Payment Received at Delivery: _____ Date: _____

Shipping Method: **DNTRAC** UPS GSO WALK-IN FED EX Courier: _____
 Cooling Method: **Vel** **Blue** **None**
 Amount: _____ P/A#: _____
 Custody Seal: **Y** **N** Chilling Process Begun: **Y** **N**
 Check Int. Cash

Payment for services rendered as noted herein made in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The party signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for Laboratory Services unless contractually noted otherwise. BSK's Standard Terms and Conditions can be found at www.bskassociates.com/BSK_LabTermsConditions.pdf



Sample Integrity

BSK Bottles Yes No Page 1 of 1

| | | | | |
|-----------------|--|-----------|---|-----------|
| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | Yes No NA | Were correct containers and preservatives received for the tests requested? | Yes No NA |
| | If samples were taken today, is there evidence that chilling has begun? | Yes No NA | Were there bubbles in the VOA vials? (Volatiles Only) | Yes No NA |
| | Did all bottles arrive unbroken and intact? | Yes No | Was a sufficient amount of sample received? | Yes No |
| | Did all bottle labels agree with COC? | Yes No | Do samples have a hold time <72 hours? | Yes No |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | Yes No NA | Was PM notified of discrepancies? PM: _____ By/Time: _____ | Yes No NA |

| Bottles Received | "—" means preservation/chlorine checks are either N/A or are performed in the lab | Checks | | Passed? | |
|--|---|--------|---------|---------|--|
| | | Checks | Passed? | | |
| 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | | | | | |
| Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | | — | — | | |
| None (P) ^{White Cap} | | — | — | | |
| Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | Cl, pH > 8 | Y | N | | |
| Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW | pH 9.3-9.7 | Y | N | | |
| Cr6 (P) ^{Pink Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME*** | pH 9.0-9.5 | Y | N | | |
| HNO_3 (P) ^{Red Cap} | | — | — | | |
| H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | |
| NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | |
| NaOH + ZnAc (P) | pH > 9 | Y | N | | |
| Dissolved Oxygen 300ml (g) | | — | — | | |
| None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | | — | — | | |
| HCl (AG) ^{Lt. Blue Label} O&G, Diesel | | — | — | | |
| $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | | — | — | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | | — | — | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | | — | — | | |
| $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | | — | — | | |
| $\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) ^{Orange Label} 531 | pH < 3 | Y | N | | |
| NH_4Cl (AG) ^{Purple Label} 552 | | — | — | | |
| EDA (AG) ^{Brown Label} DBPs | | — | — | | |
| HCL (CG) 524, 2, BTEX, Gas, MTBE, 8260/624 | | — | — | | |
| Buffer pH 4 (CG) | | — | — | | |
| None (CG) | | — | — | | |
| H_3PO_4 (CG) ^{Salmon Label} | | — | — | | |
| Other: | | | | | |
| Asbestos 1Liter Plastic w/ Foil | | — | — | | |
| Low Level Hg / Metals Double Baggie | | — | — | | |
| Bottled Water | | — | — | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | | — | — | | |
| Soil Tube Brass / Steel / Plastic | | — | — | | |
| Tedlar Bag / Plastic Bag | | — | — | | |

C

9/30/11

2C
1C
2C
7V
3V

| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials |
|-------|-----------|--------------|--------------------|-----------|--------------|--------------------|
| | S P | | | | S P | |
| S P | | | | S P | | |

Comments

*Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762*

July 8, 2015

Ceres ID: 10714

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on July 2, 2015. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # AB32340.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

| <u>Ceres Sample ID:</u> | <u>Sample ID</u> | <u>Date Received</u> | <u>Collection Date & Time</u> |
|-------------------------|--------------------|----------------------|-----------------------------------|
| 10714-001 | MW-9D (monitoring) | 7/2/2015 | 6/25/2015 14:40 |

Section II: Data Summary

| | | | | | | | |
|--------------------------------|---------------------|-----------------------|-------------------------|---------------------------------|---|--------------------------|---------------------------------------|
| Sample ID: Method Blank | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | Matrix: Aqueous | | Lab Sample ID: 0-MB001 | | Date Received: NA | |
| Project: AB32340 | | Sample Size: 1.000 L | | QC Batch #: 1337 | | Date Extracted: 7-Jul-15 | |
| | | | | ZB-5 MS Analysis Date: 8-Jul-15 | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 4.46 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 88.6 | 31 - 137 |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 84.8 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

| | | | | | | | | |
|--|-------------------------|---------------------------|--------------------|--|------------------------|---------------------------|-------------------|----------|
| Sample ID: Ongoing Precision and Recovery | | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Monterey Bay Analytical | | Matrix: | Aqueous | Lab Sample ID: | 0-OPR001 | Date Received: | NA |
| Project: | AB32340 | | Sample Size: | 1.000 L | QC Batch #: | 1337 | Date Extracted: | 7-Jul-15 |
| | | | | | ZB-5 MS Analysis Date: | 8-Jul-15 | | |
| Analyte | Conc. (ng/ml) | Limits^a | Qualifiers | Labeled Standards | Conc. | Limits^a | Qualifiers | |
| 2,3,7,8-TCDD | 9.44 | 7.3-14.6 | | IS ¹³ C-2,3,7,8-TCDD | 90.7 | 25-141 | | |
| | | | | CRS ³⁷ Cl ₄ -2,3,7,8-TCDD | 9.23 | 3.7-15.8 | | |
| <i>a. Method acceptance criteria .</i> | | | | | | | | |
| Analyst: | JMH | | | Reviewed by: | BS | | | |

| | | | | | | | |
|--------------------------------------|---------------------|-----------------------|-------------------------|-------------------|---|------------|---------------------------------------|
| Sample ID: MW-9D (monitoring) | | | | | | | |
| Client Data | | | Sample Data | | Laboratory Data | | |
| Name: Monterey Bay Analytical | | | Matrix: Aqueous | | Lab Sample ID: 10714-001 | | Date Received: 2-Jul-15 |
| Project: AB32340 | | | Sample Size: 1.030 L | | QC Batch #: 1337 | | Date Extracted: 7-Jul-15 |
| Date Collected: 25-Jun-15 | | | | | ZB-5 MS Analysis Date: 8-Jul-15 | | |
| Time Collected: 14:40 | | | | | | | |
| Analyte | Conc. (pg/L) | DL^a | EMPC^b | Qualifiers | Labeled Standards | % R | LCL-UCL^c Qualifiers |
| 2,3,7,8-TCDD | ND | 2.05 | | | <u>IS</u> ¹³ C-2,3,7,8-TCDD | 82.4 | 31 - 137 |
| | | | | | <u>CRS</u> ³⁷ Cl ₄ -2,3,7,8-TCDD | 95.0 | 42 - 164 |
| | | | | | <i>a.</i> Sample specific estimated detection limit. <i>b.</i> Estimated maximum possible concentration. <i>c.</i> Lower control limit - upper control limit. | | |
| Analyst: JMH | | | | Reviewed by: BS | | | |

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

Chain of Custody

Ceres Use Only

Pg. ___ of ___

4919 Windplay Dr. Suite 1
 El Dorado Hills, CA 95762
 Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: 10714
 Temperature: 3.5 °C

Reports and invoices will be delivered by email in .pdf format


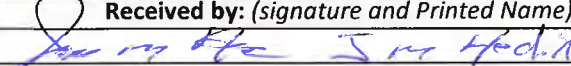
| Client Information | Invoice Information (if different from Client Info) | Project Information |
|---|--|---|
| Company Name: _____ Monterey Bay Analytical Contact Name: _____ David Holland Address: 4 Justin Court Ste D Monterey CA 93940 Ph: 831-375-6227 Email: <u>mweidner@mbasinc.com</u> | Company Name: _____ Same Contact Name: _____ Address: _____ Ph: _____ Fx: _____ Email: _____ | Ceres Quote #: _____ P.O. # _____ Project ID: _____ TAT (business days) _____ Std 15 days; Rush TAT available please call |

Matrix abbreviations:

A: Aqueous S: Soil AS: Ash DW: Drinking Water
 E: Effluent SD: Sediment C: Clay SO: Solid
 I: Influent SL: Sludge CS: Clay Slurry O: Other (please comment)

| | Sample ID | Sample Collection | | | Matrix | # of containers | EPA 1613 | EPA 8290 | NCASI 551 | EPA 8280 | EPA 613 | Other | TEF |
|----|--------------------|-------------------|------|----------|--------|-----------------|----------|----------|-----------|----------|---------|-------|----------------------|
| | | Date | Time | Comments | | | | | | | | | |
| 1 | MW-9D (monitoring) | 6/25/2015 | 1440 | Aq | 1 | X | | | | | | | AB32340 |
| 2 | | | | | | | | | | | | | (2,3,7,8 TCDD only) |
| 3 | | | | | | | | | | | | | Please include excel |
| 4 | | | | | | | | | | | | | report |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (signature and Printed Name) | Date | Time |
|--|----------|-------|---|--------|-------|
| D. Holland  | 7/1/2015 | 16:00 |  J. M. Holland | 7/2/15 | 09:15 |
| | | | | | |

Client understands that all terms described in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.
 Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

| | |
|--|--|
| Ceres ID: 10714 | Date/Time: 7/2/15 09:15 |
| Client Project ID: AB32340 | Received Temperature: 3.5°C Acceptable: Y/N |
| Chain of Custody Relinquished by signed? | Y/N |
| Custody Seals? Present? | Y/N |
| | Intact? |
| | NA: NA |
| Unlabeled / Illegible Samples | Y/N |
| Proper Containers: | Y/N |
| Preservation Acceptable (Chemical or Temperature)? | Y/N |
| Drinking Water, Sodium Thiosulfate present? | Y/N/NA |
| List COC discrepancies: | |
| 7/2/15 | |
| List Damaged Samples: | |
| 7/2/15 | |

Ceres ID: 10714 PB: 1337 Sample #s: 1 Due Date: 7/17/15

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash
Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (circle one): 1613 2,3,7,8-TCDD 8290 2,3,7,8-TCDD
 1613 2,3,7,8-TCDD/F 8290 2,3,7,8-TCDD/F
 1613 Cl₄-Cl₈ 8290 Cl₄-Cl₈

Instructions:

Method: 1613B
 SOP #: 301.1

Ceres Analytical Laboratory
 Sample Prep Bench Sheet

| Ceres ID | Client ID | Ver. | wt/vol | ISS/PAR | CSS | AP | AB/AC | FC | RSS |
|----------------|--------------------|------|--------|-------------------|-------------------|----|-------------------|----|-------------------|
| | | | | chem/date/witness | chem/date/witness | | chem/date/witness | | chem/date/witness |
| 0-1337-MB001 | Method Blank | | 1.0002 | J 7/7/15 DH | J 7/8/15 DH | NA | J 7/7/15 | NA | J 7/8/15 DH |
| 0-1337-OPR001 | OPR | | 1.0002 | (A) ↓ ↓ | ↓ ↓ | ↓ | ↓ | ↓ | ↓ ↓ |
| 10714-1337-001 | MW-9D (monitoring) | ✓ | 1.0002 | ↓ ↓ | ↓ ↓ | ↓ | ↓ | ↓ | ↓ ↓ |
| | | | | | | | | | |
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| | | | | | | | | | |

Comments : (A) OPR spiked with NSS.

Soxhlet Start: 14:00 7/7/15
 Soxhlet Stop: 07:00 7/8/15

Samples Logged out by: J 10:27 7/7/15
 Samples Returned by: NA
 Note samples Depleted: 1

Sample Extracts Storage Location: Box 17
 Extracts to Instrument: 09:49 7/8/15 J
 Extracts returned to Storage Location: 15:15 7/8/15 J

Method: 1613B
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

| Standard | Standard ID | Vol. | Expiration Date |
|----------|-------------|------|-----------------|
| ISS | S021115A | 100 | 2/11/20 |
| NSS | ↓ B | ↓ | ↓ |
| CSS | ↓ C | ↓ | ↓ |
| RSS | ↓ D | 200 | ↓ |

Solvents/Solutions/Packing Materials

| Name | Amount | Lot # | Exp. Date |
|---------------------------------|-----------------|----------|-----------|
| Toluene | 450ml | 146339 | 7/1/16 |
| Hexanes | 30, 30, 100, 20 | 150700 | 6/15/16 |
| S: Gel | 4g | P062315A | 12/23/15 |
| Basic Gel | 4g | P061915A | 12/19/15 |
| Acid Gel | 8g | P062415B | 12/24/15 |
| Acid Al | 6g | P062415A | 12/24/15 |
| Na ₂ SO ₄ | 1.5g | P040515A | 10/15/15 |
| 20% Dec Hex | 30ml | L070515A | 1/5/16 |

Section VII: Qualifiers/Abbreviations

| | |
|---------------|---|
| J | Concentration found below the lower quantitation limit but greater than zero. |
| B | Analyte present in the associated Method Blank. |
| E | Concentration found exceeds the Calibration range of the HRGC/HRMS. |
| D | This analyte concentration was calculated from a dilution. |
| X | The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample. |
| H | Recovery limits exceeded. See cover letter. |
| * | Results taken from dilution. |
| I | Interference. See cover letter. |
| Conc. | Concentration Found |
| DL | Calculated Detection Limit |
| ND | Non-Detect |
| % Rec. | Percent Recovery |



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1507537

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: Geoscience

Project Received: 07/15/2015

Analytical Report reviewed & approved for release on 07/23/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: Geoscience
WorkOrder: 1507537

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Analytical Report

Client: Monterey Bay Analytical

WorkOrder: 1507537

Project: Geoscience

Extraction Method: E365.1

Date Received: 7/15/15 15:42

Analytical Method: E365.1

Date Prepared: 7/21/15

Unit: mg/L

Dissolved Phosphorous as P

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--------------------|--------------|--------|------------------|------------|----------|
| MW-9D (monitoring) | 1507537-001A | Water | 06/25/2015 14:40 | WC_SKALAR | 107793 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-------|----|------------------|
| Phosphorous, Dissolved (as P) | 0.12 | 0.040 | 1 | 07/22/2015 21:18 |

Analyst(s): JS



Quality Control Report


Client: Monterey Bay Analytical
Date Prepared: 7/20/15
Date Analyzed: 7/21/15
Instrument: WC_SKALAR
Matrix: Water
Project: Geoscience

WorkOrder: 1507537
BatchID: 107793
Extraction Method: E365.1
Analytical Method: E365.1
Unit: mg/L
Sample ID: MB/LCS-107793
 1507453-001AMS/MSD

QC Summary Report for E365.1

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|------------------------|-----------|------------|-------|---------|------------|----------|------------|
| Total Phosphorous as P | ND | 0.837 | 0.040 | 0.80 | - | 105 | 90-110 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|------------------------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Total Phosphorous as P | 1.05 | 1.08 | 0.80 | 0.3645 | 86.2 | 89.3 | 80-120 | 2.36 | 20 |

 1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1507537

ClientCode: MBAS

WaterTrax WriteOn EDF Excel EQulS Email HardCopy ThirdParty J-flag

Report to:

David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: mweidner@mbasinc.com; Dholland@mbas
cc/3rd Party:
PO:
ProjectNo: Geoscience

Bill to:

Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT:

5 days

Date Received: 07/15/2015

Date Printed: 07/15/2015

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|--------------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1507537-001 | MW-9D (monitoring) | Water | 6/25/2015 14:40 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|-------------|----|--|---|--|---|--|----|--|
| 1 | TotalP_Diss | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

QC Level: LEVEL 2

Work Order: 1507537

Project: Geoscience

Client Contact: David Holland

Date Received: 7/15/2015

Comments:

Contact's Email: mweidner@mbasinc.com; Dholland@mbasinc.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|--------------------|--------|--------------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1507537-001A | MW-9D (monitoring) | Water | E365.1 (Dissolved Phosphorous) | 1 | 250mL HDPE w/ HS04 | <input type="checkbox"/> | 6/25/2015 14:40 | 5 days | None | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1507537

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)

| | | | |
|--|--|--|--|
| Report To: David Holland | | Bill To: | |
| Company: Monterey Bay Analytical Services | | | |
| 4 Justin Ct. Suite D | | | |
| Monterey, Ca 93940 | | E-Mail: mweidner@mباسinc.com | |
| Tele: (831) 375 - 6227 | | Fax: (831) 641-0734 | |
| Project #: | | Project Name: Geoscience | |
| Project Location: CalAm | | | |
| Sampler Signature: Matan Salmon | | | |

| Analysis Request | | | | | | | | | | | Other | Comments |
|---|---|---|--|--|--|--|--|--|--|--|-------|----------|
| MTBE / BTEX & TPH as Gas (602 / 8021 + 8015) MTBE / BTEX ONLY (EPA 602 / 8021) TPH as Diesel / Motor Oil (8015) Total Petroleum Oil & Grease (1664 / 5520 E/B&F) Total Petroleum Hydrocarbons (418.1) EPA 502.2 / 601 / 8010 / 8021 (HVOCs) EPA 505 / 608 / 8081 (CI Pesticides) EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515 / 8151 (Acidic CI Herbicides) EPA 524.2 / 624 / 8260 (VOCs) EPA 525.2 / 625 / 8270 (SVOCs) EPA 8270 SIM / 8310 (PAHs / PNAAs) CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Lead (200.7 / 200.8 / 6010 / 6020) Total Dissolved Phosphorous (Samples filtered and preserved w/ H2SO4) | X | Filter Samples for Metals analysis: Yes / No | | | | | | | | | | |

| SAMPLE ID | LOCATION/ Field Point Name | SAMPLING | | # Containers | Type Containers | MATRIX | | | | | METHOD PRESERVED | | | |
|-----------|----------------------------------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|
| | | Date | Time | | | Water | Soil | Air | Sludge | Other | ICE | HCL | HNO ₃ | Other |
| | MW-9D (monitoring) | 6/25/15 | 1440 | 1 | P | X | | | | | X | | X | |
| | | | | | | | | | | | | | | |
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| | | | | |
|---------------------------------|---------------|-------------|--------------|---|
| Relinquished By: David Holland/ | Date: 7/14/15 | Time: 16:00 | Received By: | COMMENTS: SpCond=574uS/cm ICE/t° 2.0 GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____ VOAS O&G METALS OTHER PRESERVATION pH<2 |
| Relinquished By: | Date: 7/15/15 | Time: 0830 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |



Sample Receipt Checklist

Client Name: **Monterey Bay Analytical** Date and Time Received: **7/15/2015 3:42:32 PM**
 Project Name: **Geoscience** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1507537** Matrix: Water Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No
 (Ice Type: WET/BLU)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

 Comments:

CERTIFICATE OF ANALYSIS

| | |
|--|--------------------------------------|
| Client: Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940 | Report Date: 07/13/15 11:44 |
| Attention: David Holland | Received Date: 07/01/15 09:45 |
| Phone: (831) 375-6227 | Turn Around: Normal |
| Fax: (831) 641-0734 | Client Project: Cal Am |
| Work Order(s): 5G01013 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

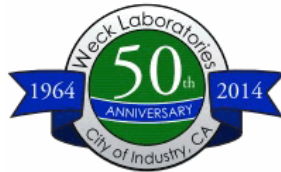
Dear David Holland :

Enclosed are the results of analyses for samples received 07/01/15 09:45 with the Chain of Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager





Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

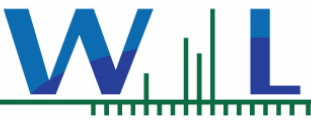
Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|--------------|------------|--------|----------------|
| MW-9D (monitoring) Comments: AB32340 | Matan Salmon | 5G01013-01 | Water | 06/25/15 14:40 |

ANALYSES

Anions by IC, EPA Method 9056
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

5G01013-01 MW-9D (monitoring)

Sampled: 06/25/15 14:40

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32340

Anions by IC, EPA Method 9056

Method: EPA 9056M

Batch: W5G0128

Prepared: 07/02/15 10:00

Analyst: Alice T Lee

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-------|-----|----------------|-----------|
| Iodide | ND | 500 | ug/l | 50 | 07/02/15 13:36 | M-05 |

Chlorinated Pesticides and/or PCBs

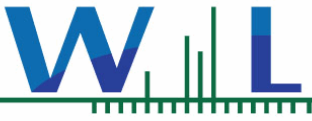
Method: EPA 508

Batch: W5G0076

Prepared: 07/02/15 12:50

Analyst: Paolo Lorenzo A Ramirez

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------|--------|-------------|--------|-----|----------------|-----------|
| 4,4'-DDD | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| 4,4'-DDE | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| 4,4'-DDT | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Aldrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| alpha-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1016 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1221 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1232 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1242 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1248 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1254 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Aroclor 1260 | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| beta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Chlordane (tech) | ND | 0.10 | ug/l | 1 | 07/06/15 22:21 | |
| Chlorothalonil | ND | 0.050 | ug/l | 1 | 07/06/15 22:21 | |
| delta-BHC | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Dieldrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Endosulfan I | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Endosulfan II | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Endosulfan sulfate | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Endrin | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Endrin aldehyde | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Heptachlor | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Heptachlor epoxide | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Hexachlorobenzene | ND | 0.050 | ug/l | 1 | 07/06/15 22:21 | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | 1 | 07/06/15 22:21 | |
| Methoxychlor | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| PCBs, Total | ND | 0.50 | ug/l | 1 | 07/06/15 22:21 | |
| Propachlor | ND | 0.050 | ug/l | 1 | 07/06/15 22:21 | |
| Toxaphene | ND | 1.0 | ug/l | 1 | 07/06/15 22:21 | |
| Trifluralin | ND | 0.010 | ug/l | 1 | 07/06/15 22:21 | |
| Surr: Decachlorobiphenyl | 68 % | Conc:0.0683 | 70-130 | % | | S-GC |
| Surr: Tetrachloro-meta-xylene | 93 % | Conc:0.0931 | 70-130 | % | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

5G01013-01 MW-9D (monitoring)

Sampled: 06/25/15 14:40

Sampled By: Matan Salmon

Matrix: Water

Sample Note: AB32340

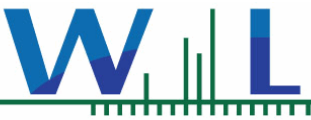
Chlorinated Pesticides and/or PCBs



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

QUALITY CONTROL SECTION



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Anions by IC, EPA Method 9056 - Quality Control

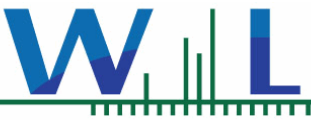
Batch W5G0128 - EPA 9056M

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W5G0128-BLK1) | | | | Analyzed: 07/02/15 11:27 | | | | | | |
| Iodide | ND | 10 | ug/l | | | | | | | |
| LCS (W5G0128-BS1) | | | | Analyzed: 07/02/15 11:59 | | | | | | |
| Iodide | 42.7 | 10 | ug/l | 40.0 | | 107 | 85-115 | | | |
| Matrix Spike (W5G0128-MS1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 16:57 | | | | |
| Iodide | 41.9 | 10 | ug/l | 40.0 | ND | 105 | 80-120 | | | |
| Matrix Spike (W5G0128-MS2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:26 | | | | |
| Iodide | 54.2 | 10 | ug/l | 40.0 | 11.7 | 106 | 80-120 | | | |
| Matrix Spike Dup (W5G0128-MSD1) | | | | Source: 5G01016-01 | | Analyzed: 07/02/15 17:11 | | | | |
| Iodide | 43.6 | 10 | ug/l | 40.0 | ND | 109 | 80-120 | 4 | 20 | |
| Matrix Spike Dup (W5G0128-MSD2) | | | | Source: 5G01019-05 | | Analyzed: 07/02/15 17:41 | | | | |
| Iodide | 53.5 | 10 | ug/l | 40.0 | 11.7 | 104 | 80-120 | 1 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-------|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | Analyzed: 07/06/15 20:18 | | | | | | |
| 4,4'-DDD | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDE | ND | 0.010 | ug/l | | | | | | | |
| 4,4'-DDT | ND | 0.010 | ug/l | | | | | | | |
| Aldrin | ND | 0.010 | ug/l | | | | | | | |
| alpha-BHC | ND | 0.010 | ug/l | | | | | | | |
| Aroclor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1221 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1232 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1242 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1248 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1254 | ND | 0.10 | ug/l | | | | | | | |
| Aroclor 1260 | ND | 0.10 | ug/l | | | | | | | |
| beta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Chlordane (tech) | ND | 0.10 | ug/l | | | | | | | |
| Chlorothalonil | ND | 0.050 | ug/l | | | | | | | |
| delta-BHC | ND | 0.010 | ug/l | | | | | | | |
| Dieldrin | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan I | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan II | ND | 0.010 | ug/l | | | | | | | |
| Endosulfan sulfate | ND | 0.010 | ug/l | | | | | | | |
| Endrin | ND | 0.010 | ug/l | | | | | | | |
| Endrin aldehyde | ND | 0.010 | ug/l | | | | | | | |



Monterey Bay Analytical Services
 4 Justin Court, Suite D
 Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W5G0076 - EPA 508

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W5G0076-BLK1) | | | | | | | | | | |
| Analyzed: 07/06/15 20:18 | | | | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor | ND | 0.010 | ug/l | | | | | | | |
| Heptachlor epoxide | ND | 0.010 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.050 | ug/l | | | | | | | |
| Methoxychlor | ND | 0.010 | ug/l | | | | | | | |
| PCBs, Total | ND | 0.50 | ug/l | | | | | | | |
| Propachlor | ND | 0.050 | ug/l | | | | | | | |
| Toxaphene | ND | 1.0 | ug/l | | | | | | | |
| Trifluralin | ND | 0.010 | ug/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.108 | | ug/l | 0.100 | | 108 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0934 | | ug/l | 0.100 | | 93 | 70-130 | | | |
| LCS (W5G0076-BS1) | | | | | | | | | | |
| Analyzed: 07/06/15 20:48 | | | | | | | | | | |
| 4,4'-DDD | 0.0859 | 0.010 | ug/l | 0.100 | | 86 | 55-142 | | | |
| 4,4'-DDE | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 49-129 | | | |
| 4,4'-DDT | 0.100 | 0.010 | ug/l | 0.100 | | 100 | 54-160 | | | |
| Aldrin | 0.0872 | 0.010 | ug/l | 0.100 | | 87 | 29-115 | | | |
| alpha-BHC | 0.0936 | 0.010 | ug/l | 0.100 | | 94 | 59-131 | | | |
| beta-BHC | 0.107 | 0.010 | ug/l | 0.100 | | 107 | 63-136 | | | |
| delta-BHC | 0.109 | 0.010 | ug/l | 0.100 | | 109 | 59-137 | | | |
| Dieldrin | 0.0909 | 0.010 | ug/l | 0.100 | | 91 | 59-135 | | | |
| Endosulfan I | 0.0701 | 0.010 | ug/l | 0.100 | | 70 | 28-138 | | | |
| Endosulfan II | 0.0741 | 0.010 | ug/l | 0.100 | | 74 | 53-133 | | | |
| Endosulfan sulfate | 0.0783 | 0.010 | ug/l | 0.100 | | 78 | 58-155 | | | |
| Endrin | 0.0882 | 0.010 | ug/l | 0.100 | | 88 | 57-148 | | | |
| Endrin aldehyde | 0.0980 | 0.010 | ug/l | 0.100 | | 98 | 45-139 | | | |
| gamma-BHC (Lindane) | 0.0908 | 0.010 | ug/l | 0.100 | | 91 | 59-129 | | | |
| Heptachlor | 0.0912 | 0.010 | ug/l | 0.100 | | 91 | 42-136 | | | |
| Heptachlor epoxide | 0.0934 | 0.010 | ug/l | 0.100 | | 93 | 59-134 | | | |
| Methoxychlor | 0.0773 | 0.010 | ug/l | 0.100 | | 77 | 56-167 | | | |
| <i>Surr: Decachlorobiphenyl</i> | 0.100 | | ug/l | 0.100 | | 100 | 70-130 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 0.0837 | | ug/l | 0.100 | | 84 | 70-130 | | | |
| LCS Dup (W5G0076-BSD1) | | | | | | | | | | |
| Analyzed: 07/06/15 21:19 | | | | | | | | | | |
| 4,4'-DDD | 0.0966 | 0.010 | ug/l | 0.100 | | 97 | 55-142 | 12 | 25 | |
| 4,4'-DDE | 0.105 | 0.010 | ug/l | 0.100 | | 105 | 49-129 | 11 | 25 | |
| 4,4'-DDT | 0.112 | 0.010 | ug/l | 0.100 | | 112 | 54-160 | 11 | 25 | |
| Aldrin | 0.0981 | 0.010 | ug/l | 0.100 | | 98 | 29-115 | 12 | 25 | |
| alpha-BHC | 0.106 | 0.010 | ug/l | 0.100 | | 106 | 59-131 | 13 | 25 | |
| beta-BHC | 0.121 | 0.010 | ug/l | 0.100 | | 121 | 63-136 | 12 | 25 | |
| delta-BHC | 0.124 | 0.010 | ug/l | 0.100 | | 124 | 59-137 | 13 | 25 | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Chlorinated Pesticides and/or PCBs - Quality Control**Batch W5G0076 - EPA 508**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|---------------|-------|-------------|--------------|---------------|------------|---------------|-----|-----------|-----------------|
| LCS Dup (W5G0076-BSD1) | | | | | | | | | | |
| Analyzed: 07/06/15 21:19 | | | | | | | | | | |
| Dieldrin | 0.102 | 0.010 | ug/l | 0.100 | | 102 | 59-135 | 12 | 25 | |
| Endosulfan I | 0.0768 | 0.010 | ug/l | 0.100 | | 77 | 28-138 | 9 | 25 | |
| Endosulfan II | 0.0832 | 0.010 | ug/l | 0.100 | | 83 | 53-133 | 12 | 25 | |
| Endosulfan sulfate | 0.0895 | 0.010 | ug/l | 0.100 | | 90 | 58-155 | 13 | 25 | |
| Endrin | 0.0988 | 0.010 | ug/l | 0.100 | | 99 | 57-148 | 11 | 25 | |
| Endrin aldehyde | 0.111 | 0.010 | ug/l | 0.100 | | 111 | 45-139 | 13 | 25 | |
| gamma-BHC (Lindane) | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-129 | 13 | 25 | |
| Heptachlor | 0.103 | 0.010 | ug/l | 0.100 | | 103 | 42-136 | 13 | 25 | |
| Heptachlor epoxide | 0.104 | 0.010 | ug/l | 0.100 | | 104 | 59-134 | 11 | 25 | |
| Methoxychlor | 0.0884 | 0.010 | ug/l | 0.100 | | 88 | 56-167 | 13 | 25 | |
| <i>Surr: Decachlorobiphenyl</i> | <i>0.105</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>105</i> | <i>70-130</i> | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | <i>0.0932</i> | | <i>ug/l</i> | <i>0.100</i> | | <i>93</i> | <i>70-130</i> | | | |



Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 07/01/15 09:45
Date Reported: 07/13/15 11:44

Notes and Definitions

| | |
|--------------|--|
| S-GC | Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. |
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| NR | Not Reportable |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |
| MRL | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Chain of Custody / Analysis Request



4 Justin Court, Suite D
 Monterey, CA 93940
 (831) 375-MBAS (6227)
 (831) 641-0734 (Fax)

MontereyBayAnalytical@USA.net

| Analysis Requested | | | | | |
|---------------------------------|------------------------------------|--|---|-------------------------------------|--|
| See attached list for analyses. | Possible seawater salinity levels. | Lab to filter diss. Ammonia, TKN, and P. | Please run dissolved & total mass balance | MBAS Project Manager: David Holland | Dissolved metals sample was filtered in the field using 0.45 um filter |

| | | |
|--|---|----------------------|
| Client / Company Name: California American Water - Monterey Peninsula Water Supply Project | email address to sent report & invoice: travis.peterson@amwater.com , susan.jacobson@amwater.com , nreynolds@geoscience-water.com , bvillalobos@geoscience-water.com | |
| Attn: Travis Peterson (CalAm) | Drinking water [] Wastewater [] Monitoring Well [X] Soil [] Sludge [] | |
| Mailing Address: PO Box 951 Monterey, CA 93942-0951 | For State or Local Health Department reporting, the System # is _____ | |
| Billing Address: PO Box 951 Monterey, CA 93942-0951 | Phone # (831) 646-3295 / (831) 646-3269 | Fax # (831) 333-1343 |

| MBAS Lab # | Project ID or Source Code # | Sample Site / Description (Well Name, APN#, Address, Stormdrain #) | Sampling | | Receiving Temp. | Coliform Analysis | | | | | # Cont. | Container | | |
|------------|-----------------------------|--|----------|------|-----------------|-------------------|---------|-------|--------|---------|---------|-----------|------|--|
| | | | Date | Time | | CL2 Residual | Routine | Other | Repeat | Special | | Type | Size | |
| 32340 | | MW-9D | 6/25/15 | 1440 | 22.1°C | | | | | | | | | |
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| | |
|-------------------|------------|
| Field Parameters: | |
| Temp: | 21.2°C |
| pH: | 7.44 |
| Sp Cond: | 574 µS/cm |
| Turb: | 533 NUS/cm |

| | Printed Name | Signature | Date | Time | Comment |
|------------------|---------------|-----------|---------|------|--|
| Sampled by: | Matan Salmon | | 6/25/15 | 1440 | Is sample for regulatory purposes? Yes / No Yes / No |
| Relinquished by: | Matan Salmon | | 6/25/15 | 1616 | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | Mollie Woodem | | 6/25/15 | 1616 | |

| | | | | |
|----------------------|---------|---------|-----------|-------|
| [] Payment received | Check # | Amount: | Receipt # | Date: |
|----------------------|---------|---------|-----------|-------|

CAI AM DW - Geoscience

Sample Condition Upon Receipt

COC Info

Was temp acceptable? Chemistry $\leq 6^{\circ}\text{C}$ Micro $\leq 10^{\circ}\text{C}$

YES

NO

NA

<2 Hr

Is there evidence of chilling?

YES

NO

NA

Did bottles arrive intact?

YES

NO

NA

Did bottle labels agree with COC?

YES

NO

NA

Discrepancy Documentation:

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Person Contacted: _____ Method: In Person/Phone/Email _____

Problem _____

Resolution _____

Sample Split/Filtration

| Lab ID | Cont. Size | Pres | Date/Initials |
|--------|------------|------|---------------|
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| Lab ID | Cont. Size | Pres | Date/Initials |
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Comments

Filter + divide 1L 0.45 μ membrane filter \rightarrow 500ML $\text{H}_2\text{SO}_4 + \text{Na}_2\text{SeO}_3$
 250ML H_2SO_4
 250ML NP

HM 6/25/15

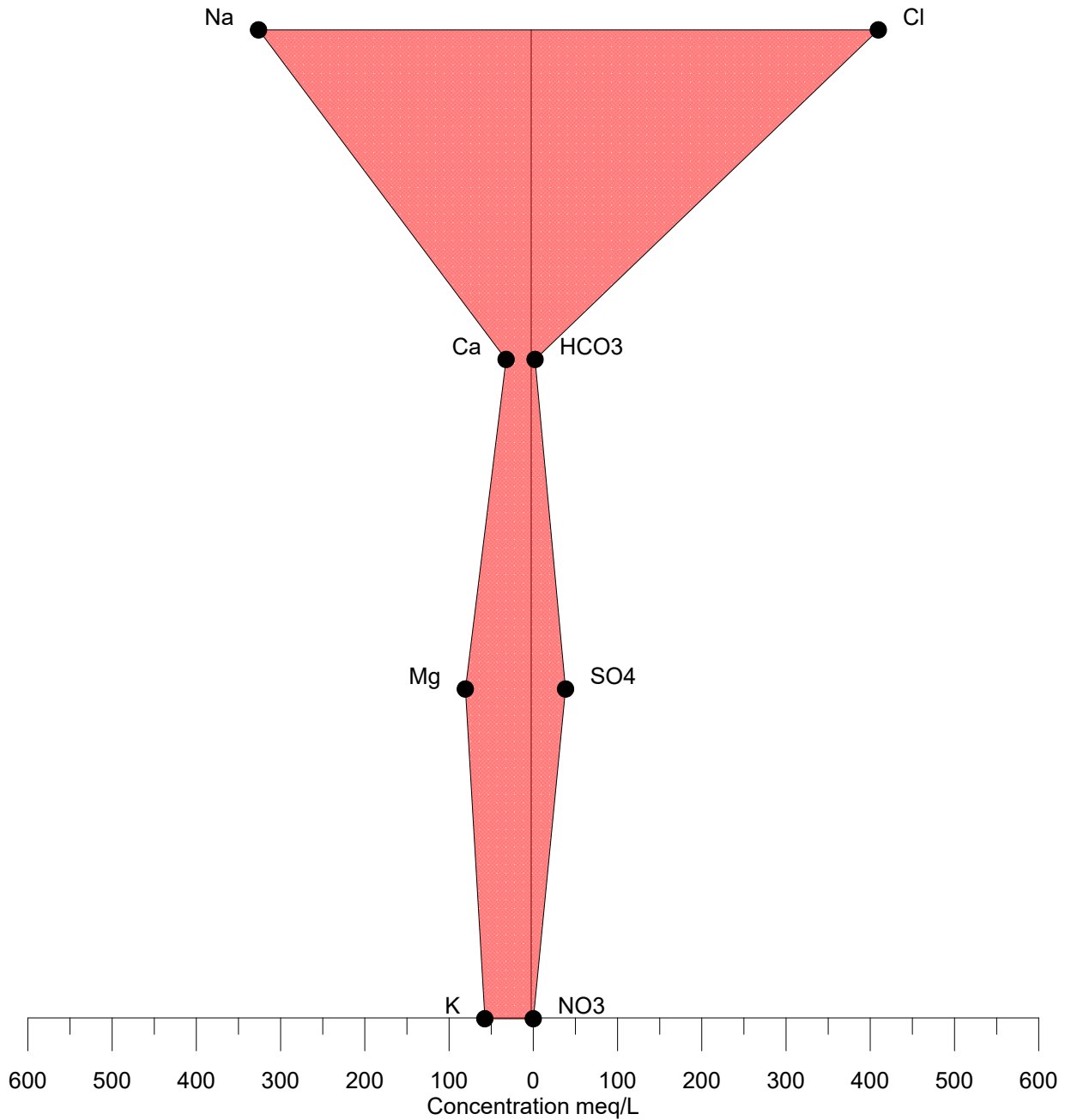
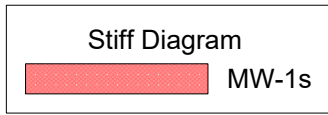
GEOSCIENCE



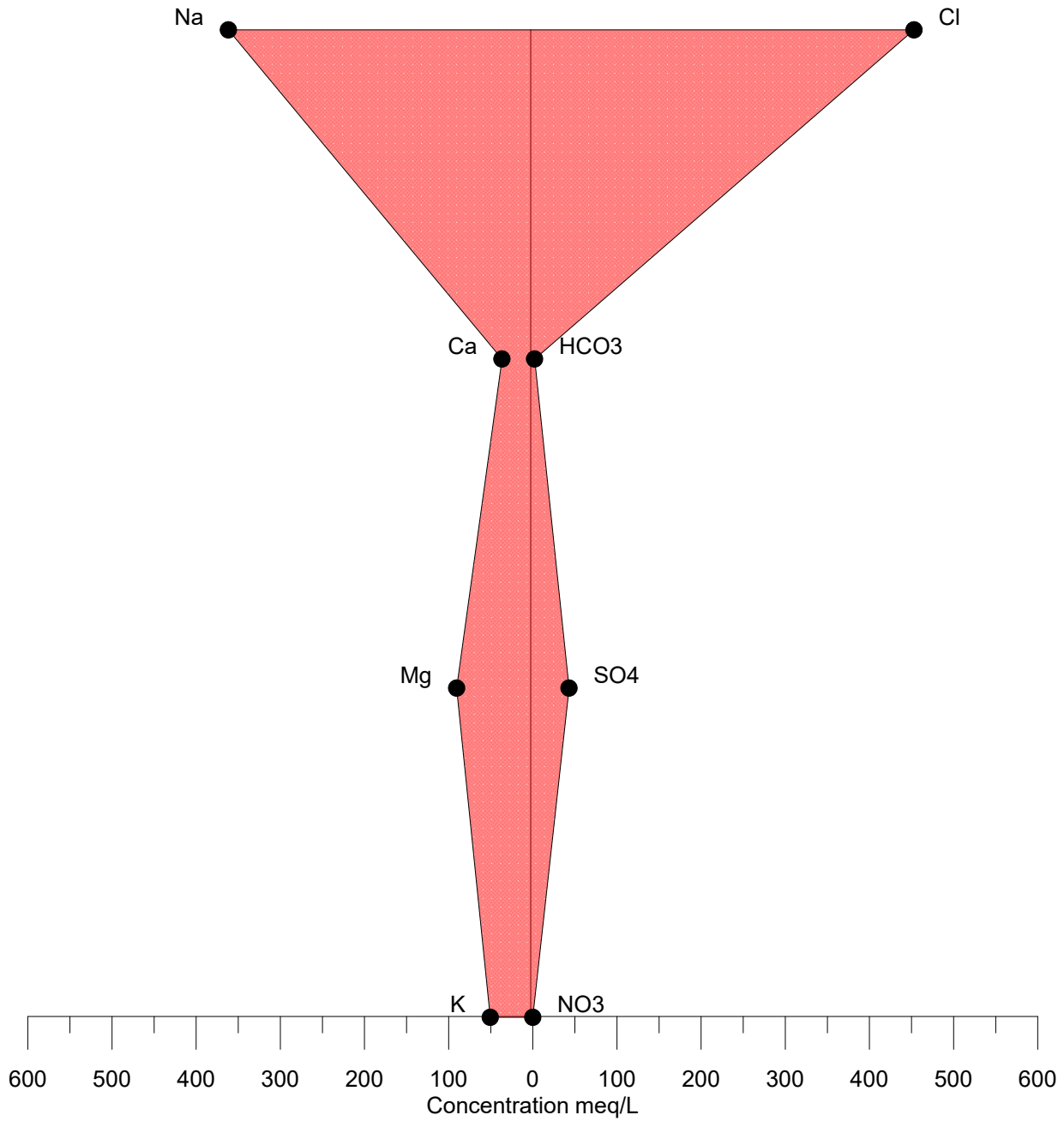
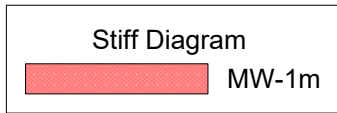
GEOSCIENCE Support Services, Inc. | P (909) 451-6650 | F (909) 451-6638
620 Arrow Highway, Suite 2000, La Verne, CA 91750 | Mailing: P.O. Box 220, Claremont, CA 91711

APPENDIX F

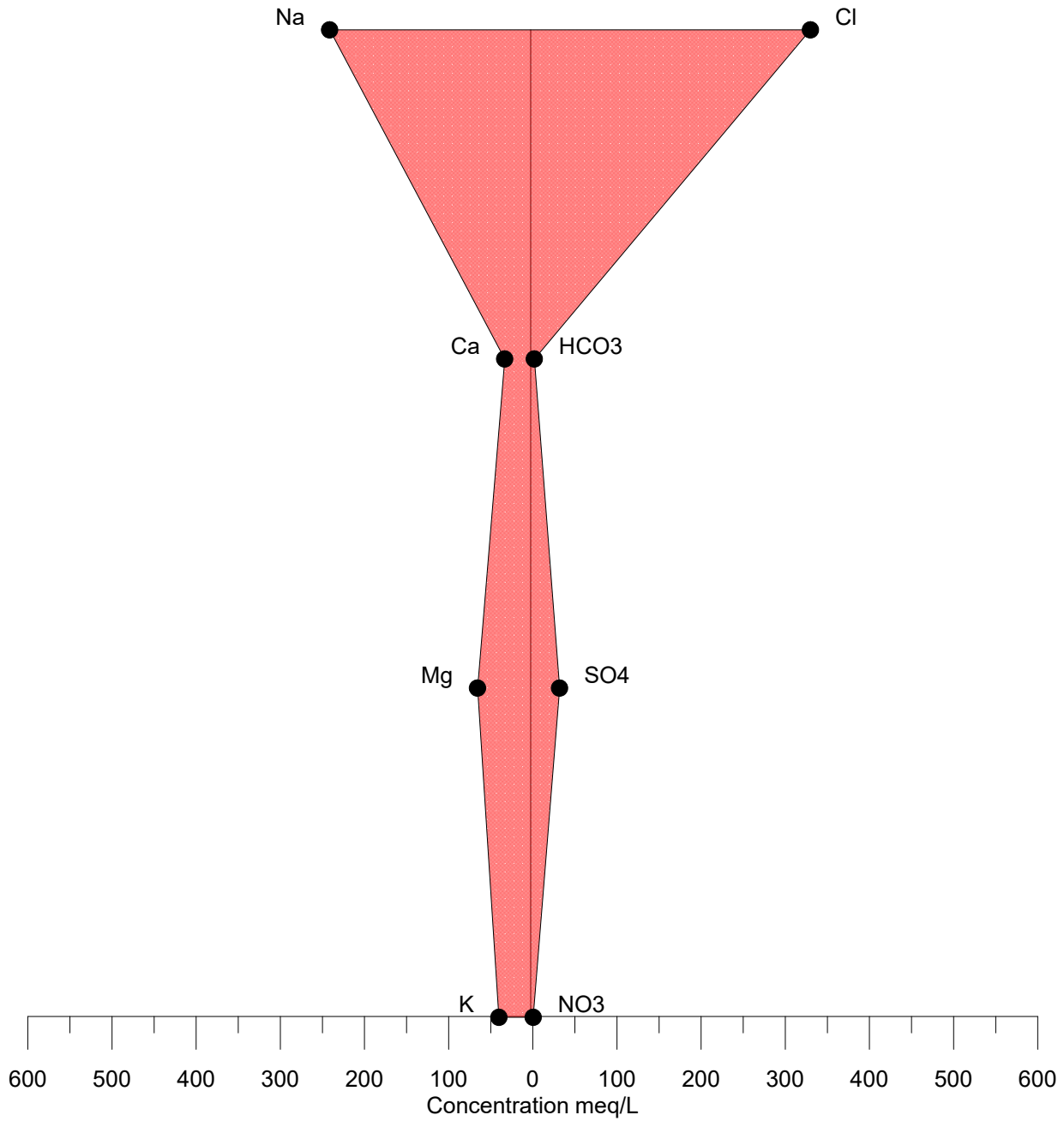
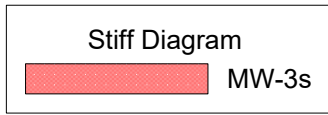
Stiff Diagrams - MPWSP Monitoring Well Water Quality



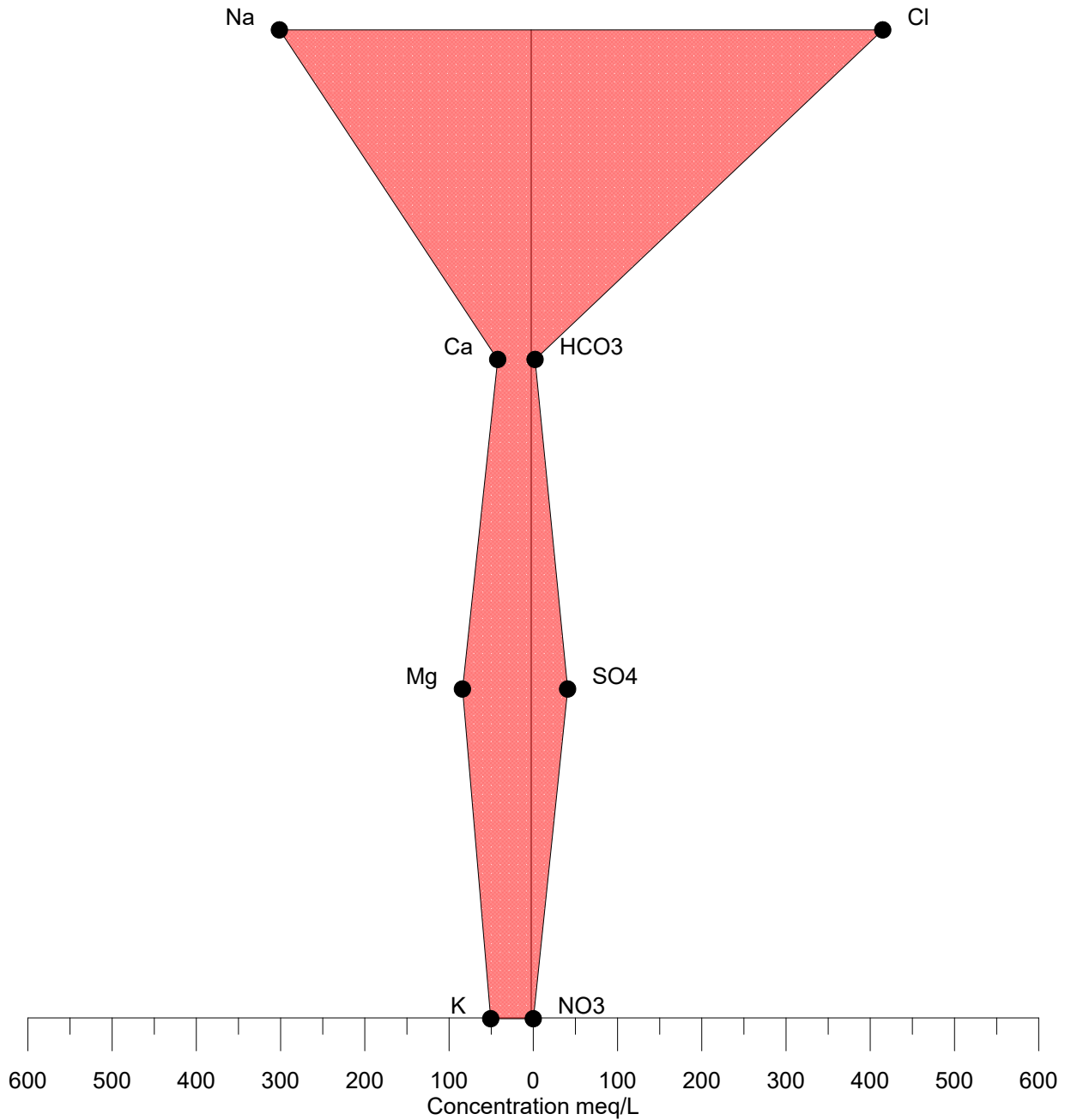
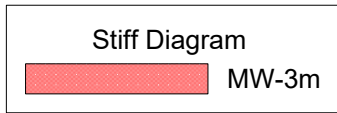
Stiff Diagram for MW-1s



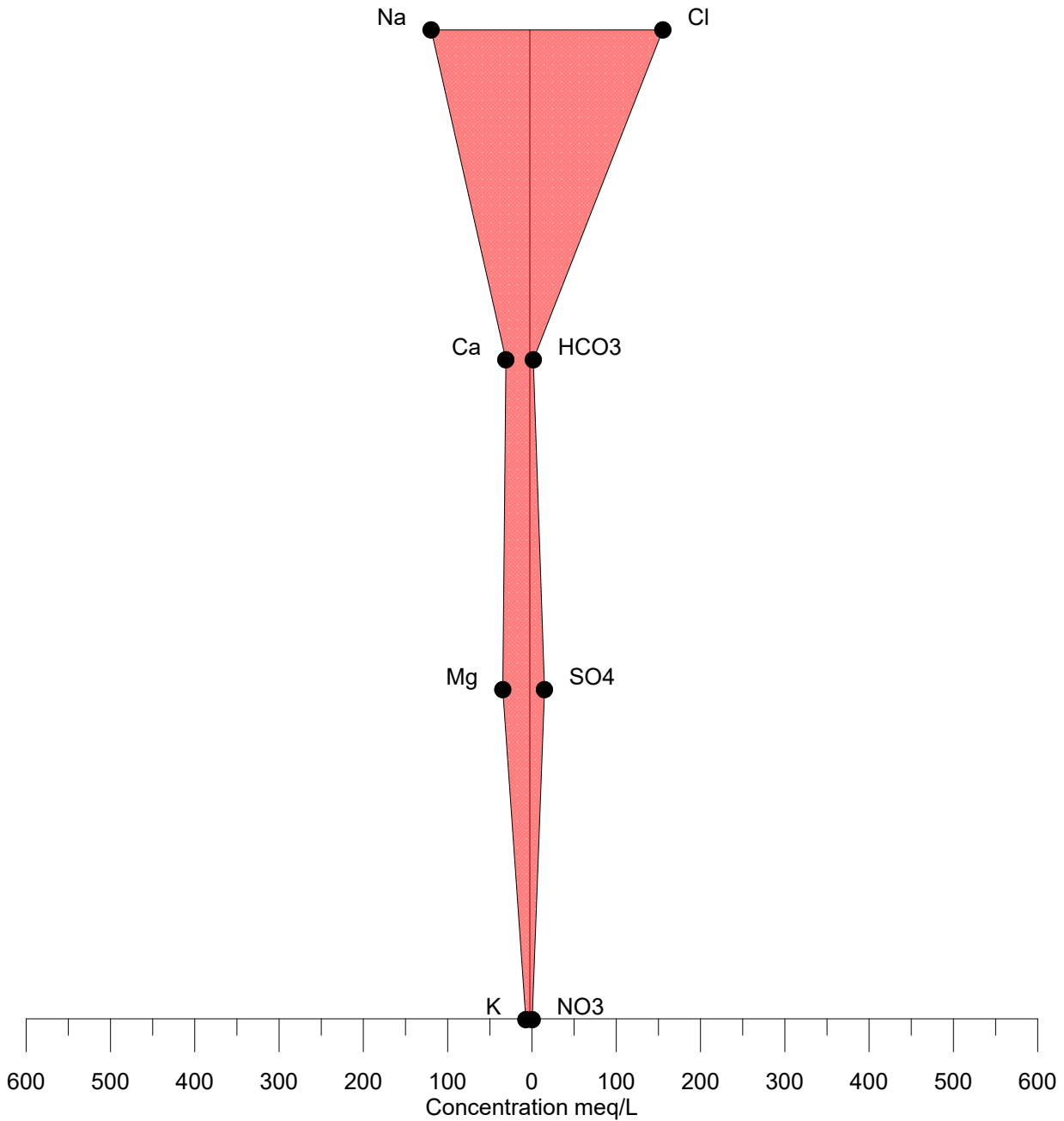
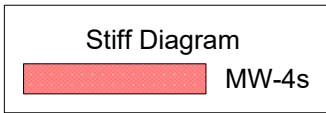
Stiff Diagram for MW-1m



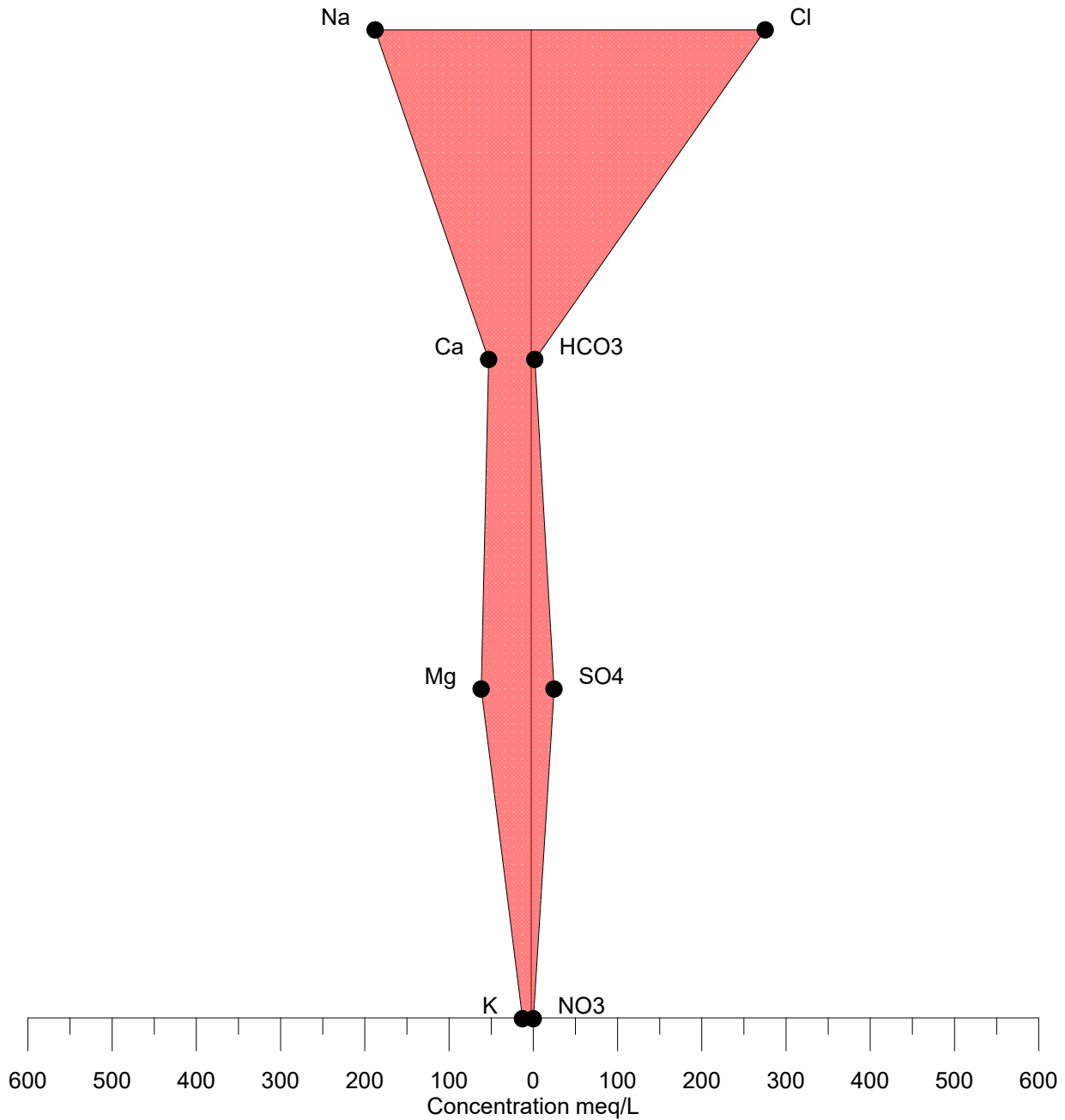
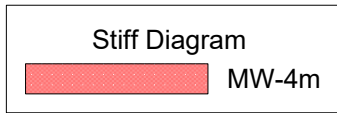
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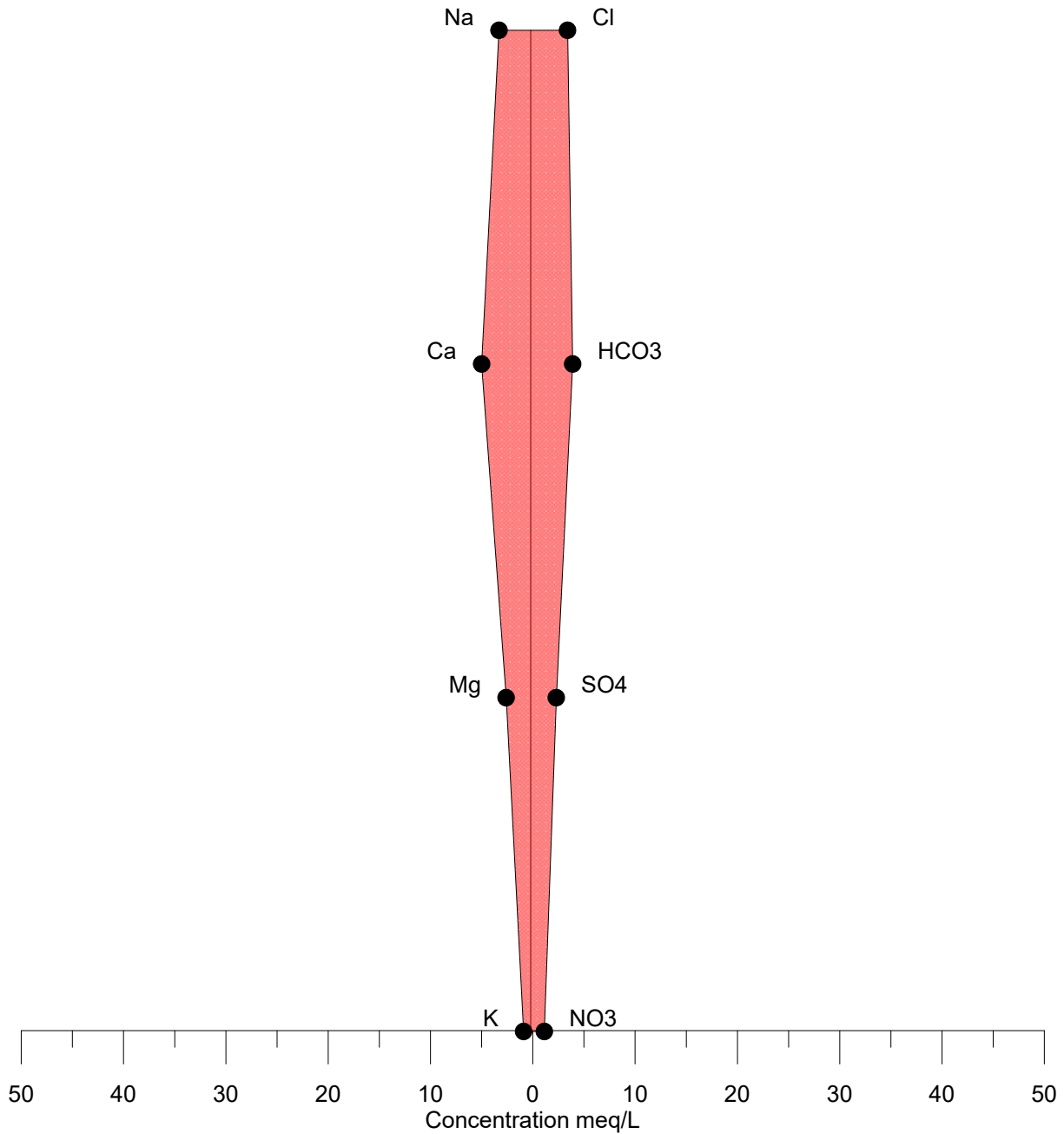
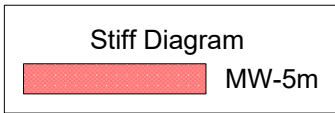
Stiff Diagram for MW-1m



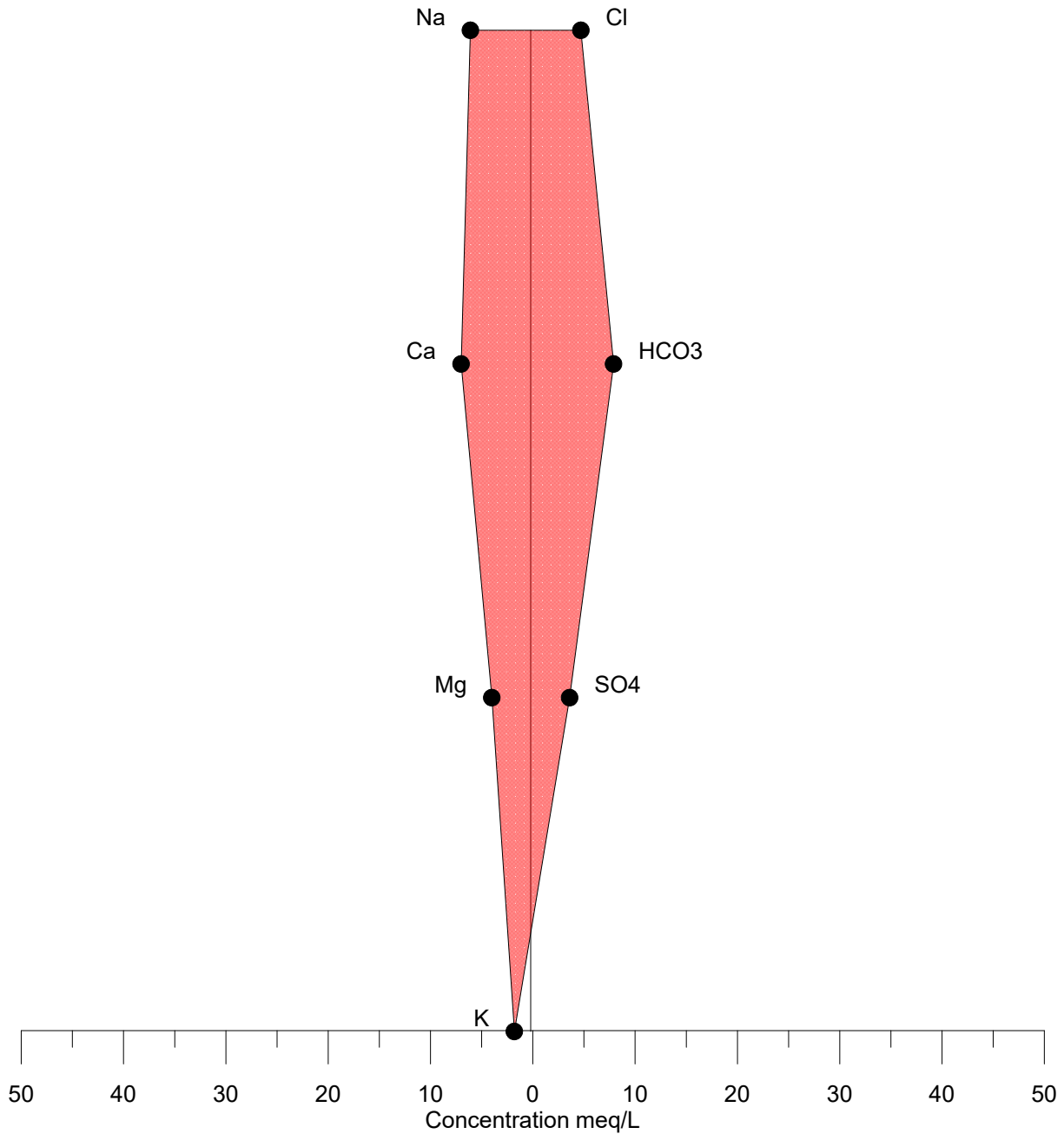
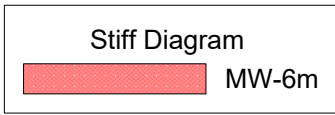
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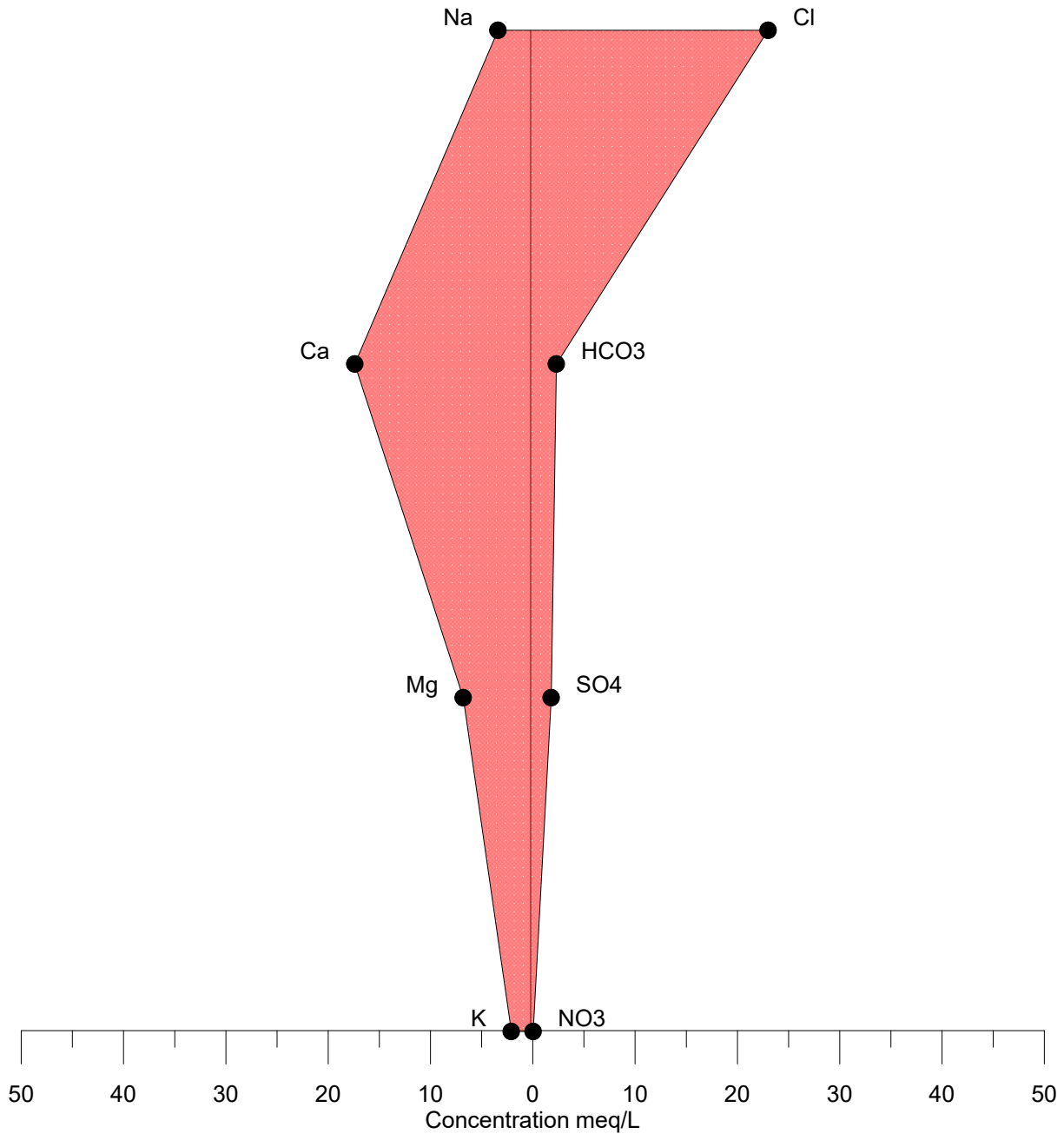
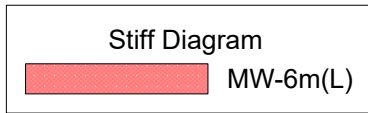
Stiff Diagram for MW-4m



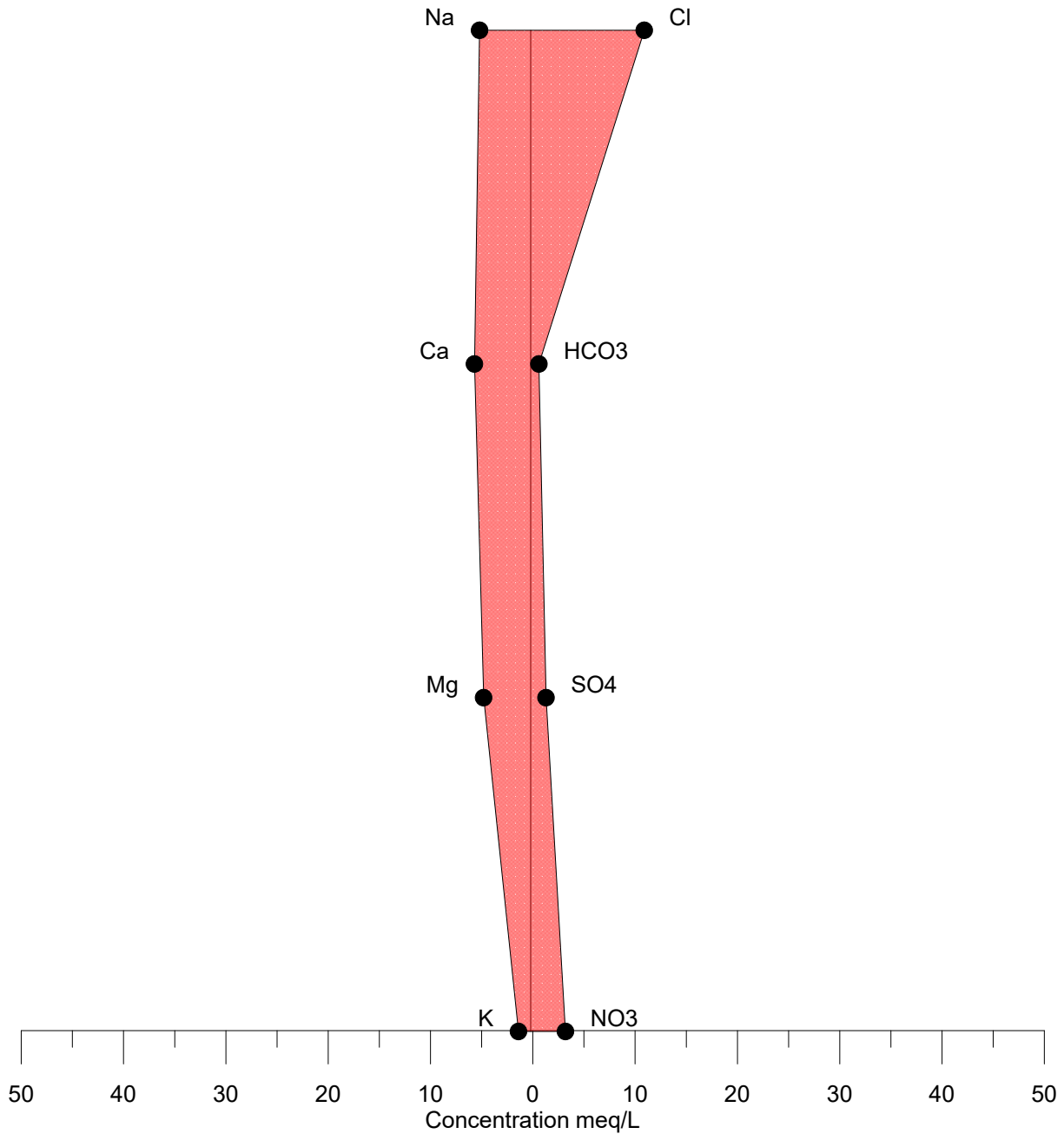
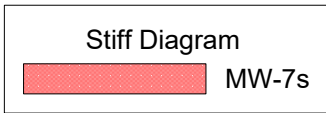
Stiff Diagram for MW-5m



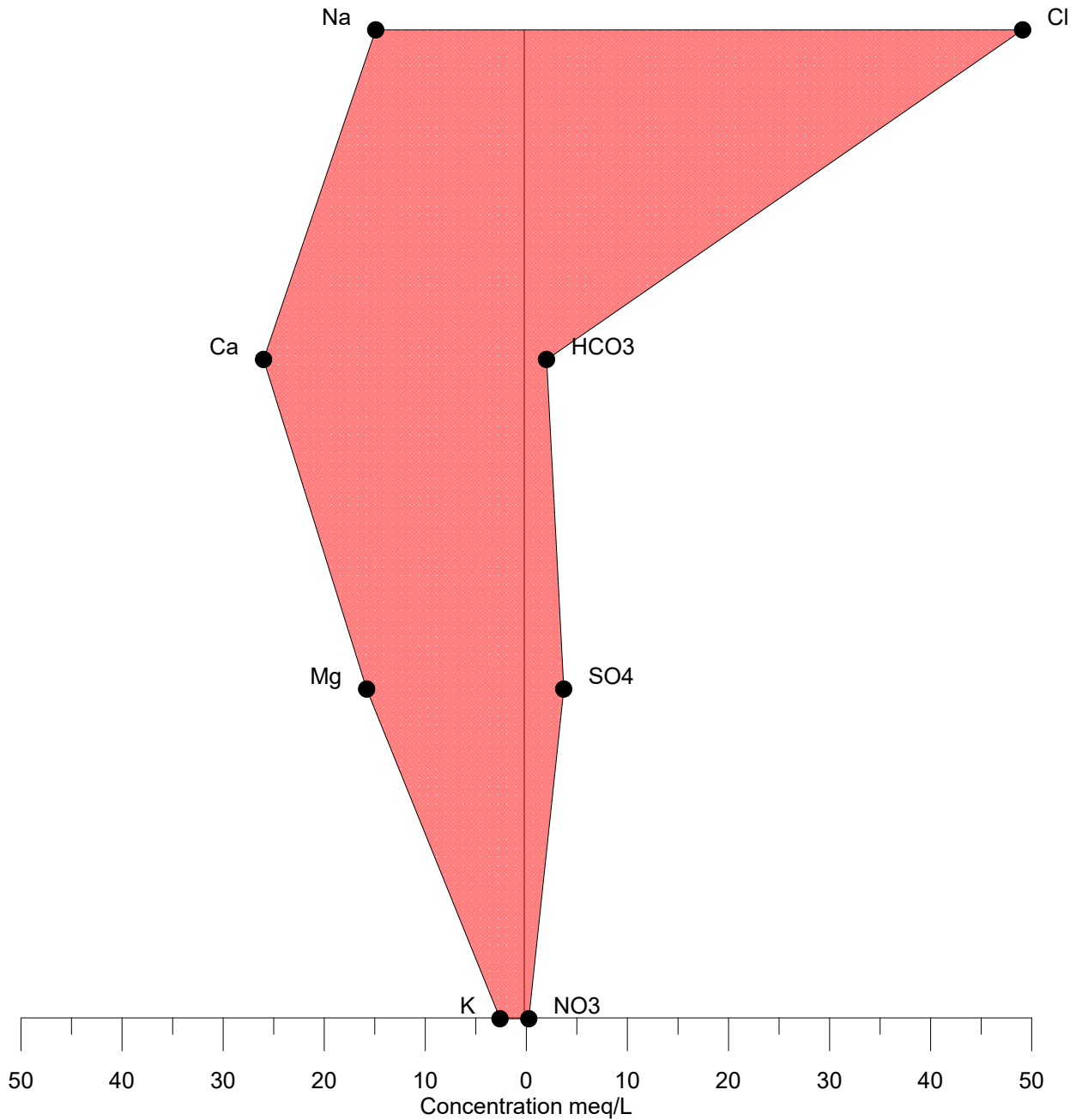
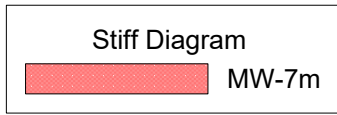
Stiff Diagram for MW-6m



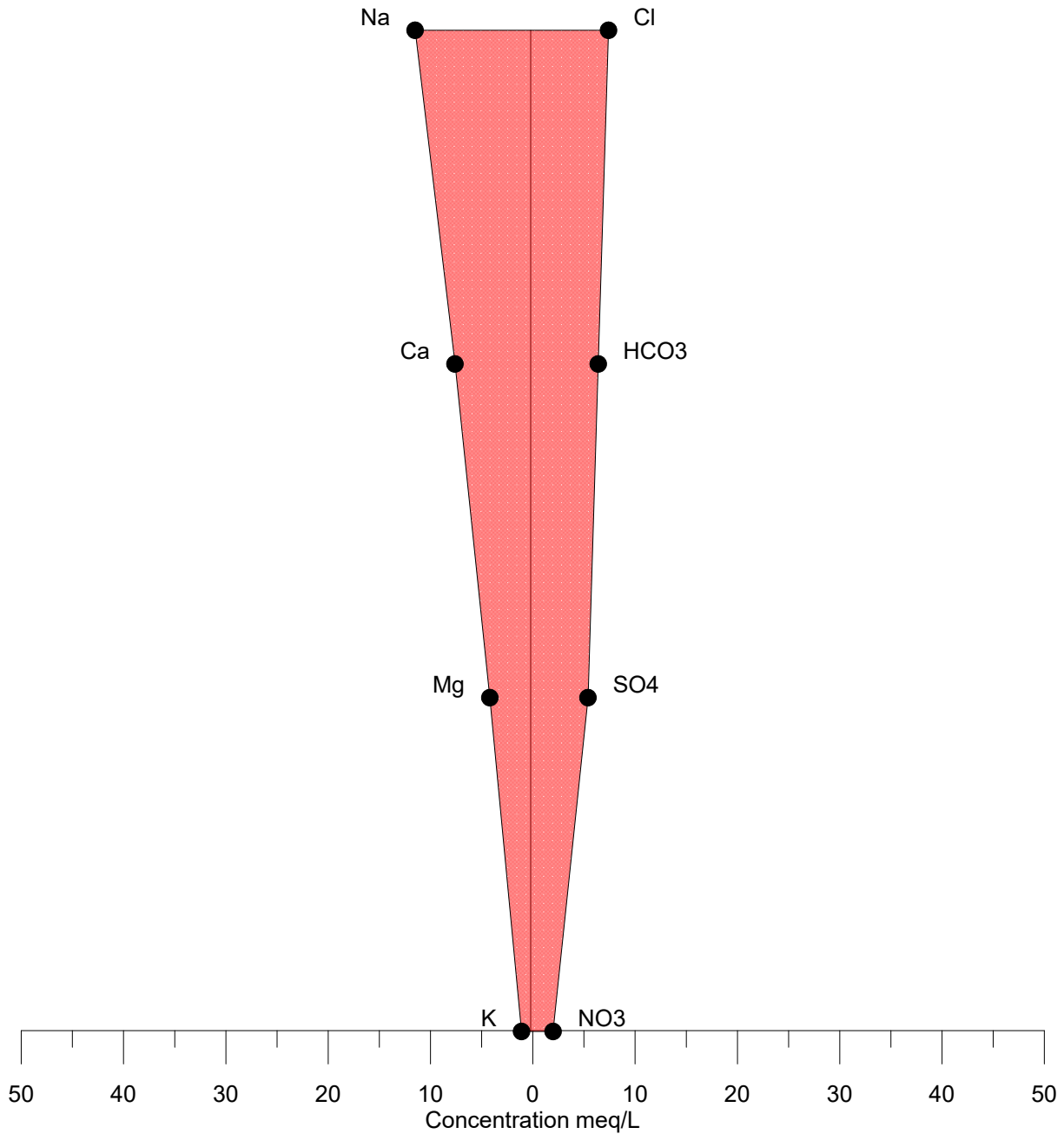
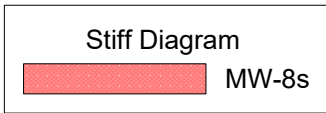
Stiff Diagram for MW-6m(L)



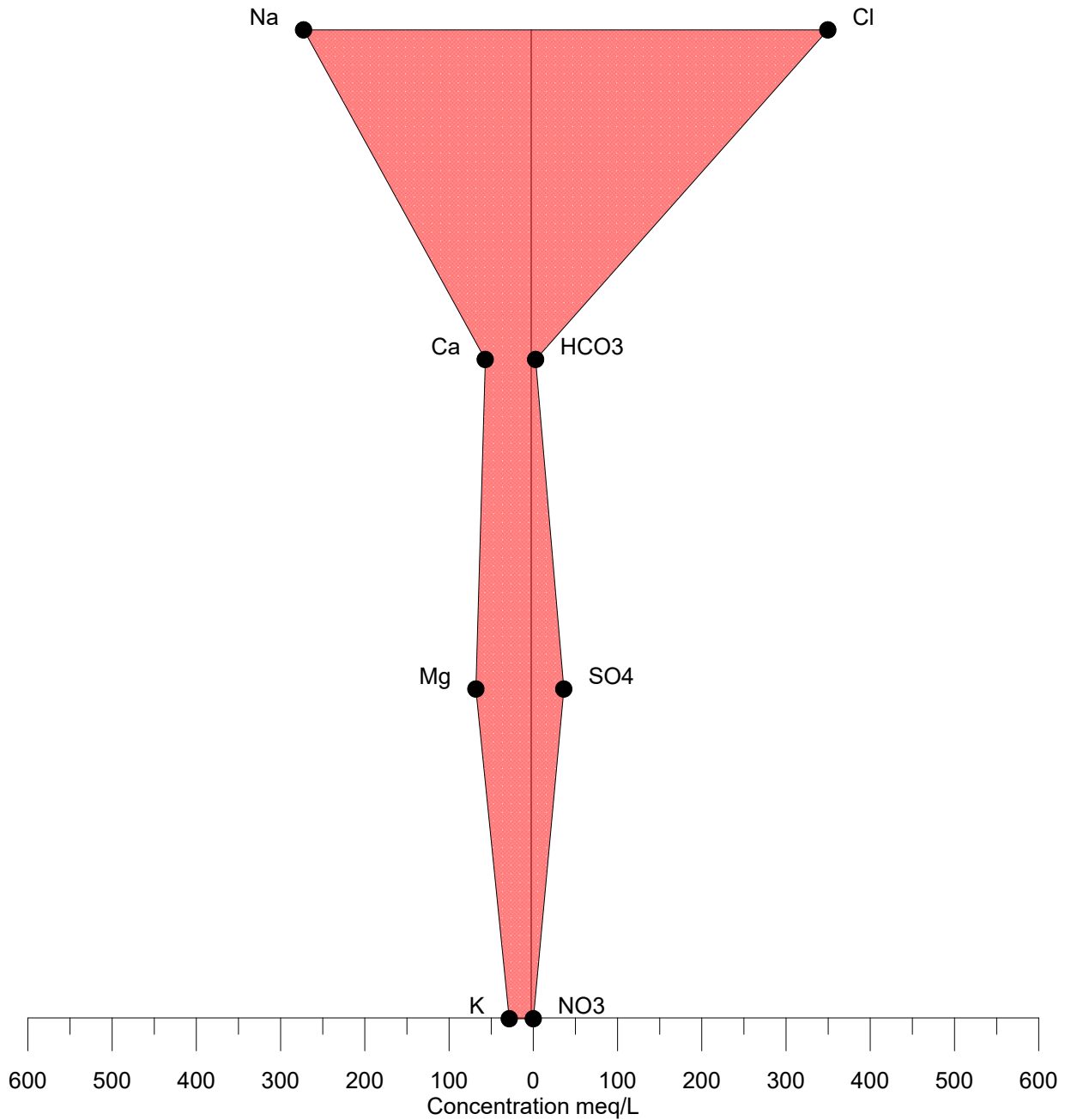
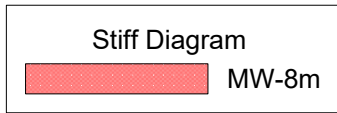
Stiff Diagram for MW-7s



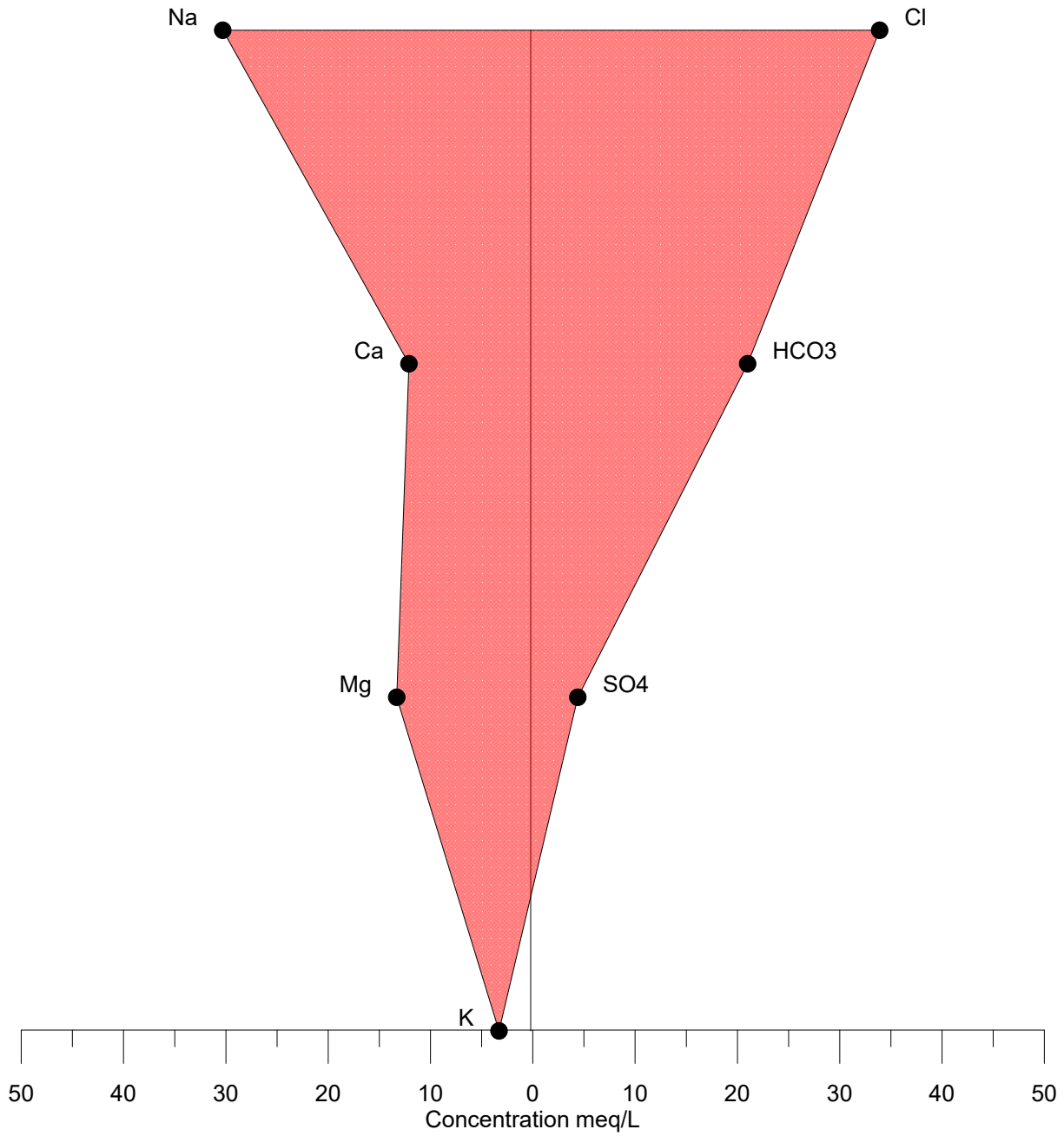
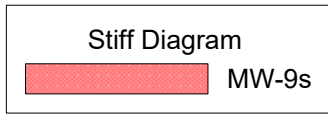
Stiff Diagram for MW-7m



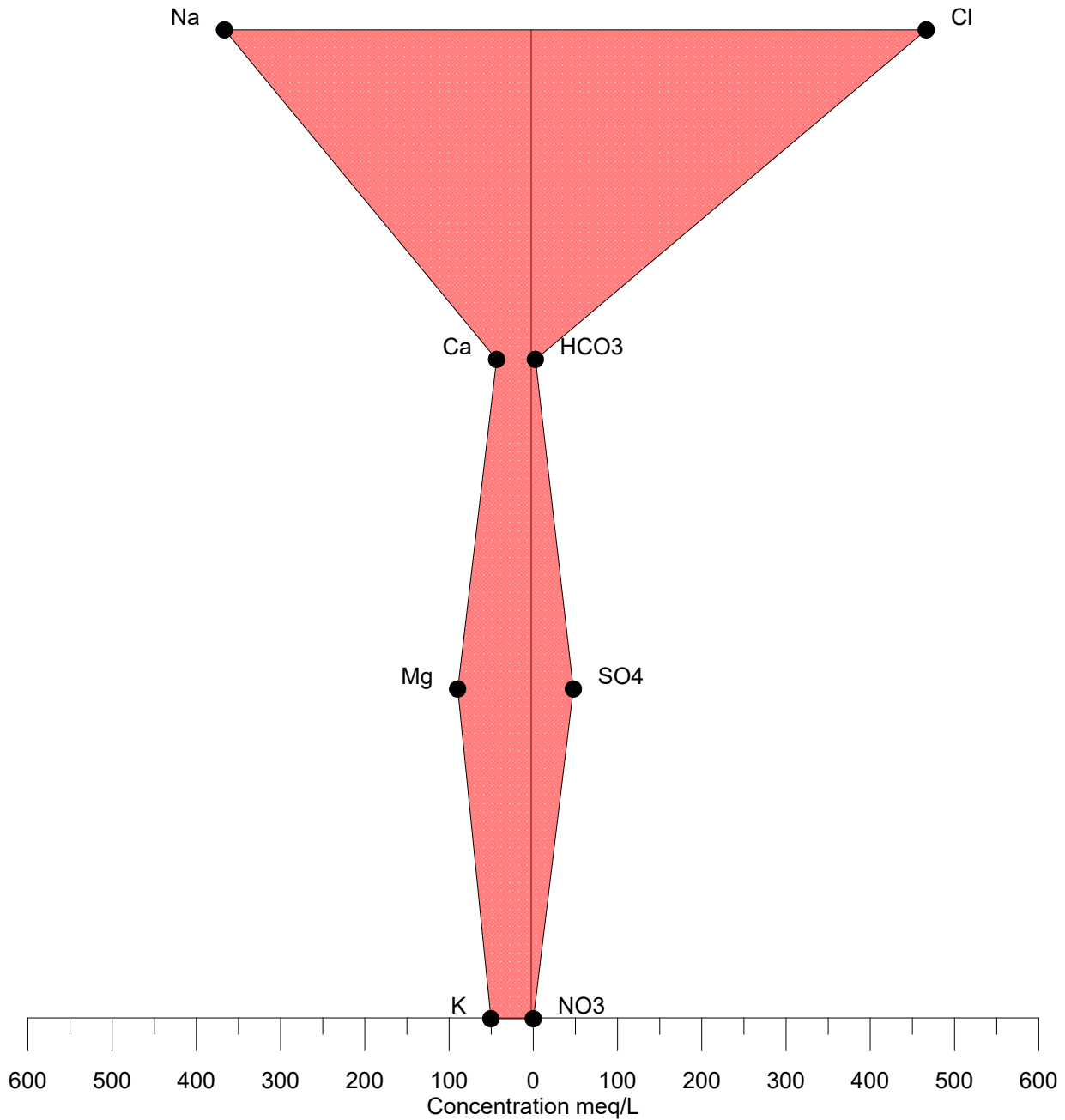
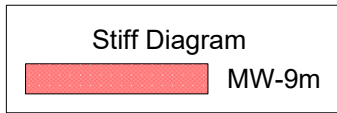
Stiff Diagram for MW-8s



Stiff Diagram for MW-8m



Stiff Diagram for MW-9s



Stiff Diagram for MW-9m

APPENDIX G
HWG Interim Work Products

APPENDIX G-1
TECHNICAL MEMORANDUM
Monterey Peninsula Water Supply Project
Baseline Water and Total Dissolved Solids Levels
Test Slant Well Area
April 20, 2015

TECHNICAL MEMORANDUM

Monterey Peninsula Water Supply Project Baseline Water and Total Dissolved Solids Levels Test Slant Well Area

Submi. ed to the Hydrogeologic Working Group

April 20 2015

TECHNICAL MEMORANDUM

Monterey Peninsula Water Supply Project Baseline Water and Total Dissolved Solids Levels Test Slant Well Area

Submitted to the Hydrogeologic Working Group

APRIL 20, 2015



GEOSCIENCE SUPPORT SERVICES INCORPORATED

Ground Water Resources Development

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THIS REPORT HAS BEEN PREPARED BY OR UNDER THE DIRECTION OF THE FOLLOWING DESIGN PROFESSIONAL LICENSED BY THE STATE OF CALIFORNIA AND BASED ON THE MOST RECENT AVAILABLE INFORMATION.



Dennis E. Williams, Ph.D., PG, CHG
President

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|-----|--|
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APPENDIX

Description

A Coastal Development Permit #A-3-MRA-14-0050

TECHNICAL MEMORANDUM
MONTEREY PENINSULA WATER SUPPLY PROJECT
BASELINE WATER AND TOTAL DISSOLVED SOLIDS LEVELS TEST SLANT WELL AREA

SUBMITTED TO THE HYDROGEOLOGIC WORKING GROUP

1.0 GENERAL

1.1 Purpose and Scope

Coastal Development Permit #A-3-MRA-14-0050 dated 8-Dec-14 granted California American Water Company (Cal-Am) permission for development consisting of: Construction, operation and decommissioning of a test slant well at the CEMEX sand mining facility in the City of Marina and beneath Monterey Bay in the County of Monterey. Special condition 11 "Protection of Nearby Wells", requires the Hydrogeologic Working Group (HWG) to establish baseline water and TDS levels prior to commencing long term pumping tests. This Technical Memorandum summarizes activities to date regarding construction and preliminary testing of the Test Slant Well in the CEMEX area.

2.0 COASTAL DEVELOPMENT PERMIT #A-3-MRA-14-0050

On November 12, 2014, by a vote of 11-0, the California Coastal Commission granted to California American Water Company (Cal-Am) Coastal Development Permit #A-3-MRA-14-0050 subject to the standard and special conditions, for development consisting of: Construction, operation, and decommissioning of a test slant well at the CEMEX sand mining facility in the City of Marina and beneath Monterey Bay in the County of Monterey Issued on behalf of the Coastal Commission on December 8, 2014 (see Appendix A).

2.1 Special Condition No. 11 of CDP #A-3-MRA-14-0050

Special Condition 11 of the above referenced CDP entitled *Protection of Nearby Wells* and requires the following:

1. Prior to starting project-related pump tests, the permittee shall install monitoring devices in a minimum of four wells on the CEMEX site within 2,000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells.

2. Prior to commencement of long term pumping tests, the HWG shall establish baseline water and Total Dissolved Solids (TDS) levels in those monitoring wells and recommend these levels to the Executive Director of the California Coastal Commission
3. During the project pumping tests, the Permittee (Cal-Am) shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices.
4. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request.
5. If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pumping test and inform the Executive Director. The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and will submit its determination to the Executive Director.
6. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing to resume. If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit.

3.0 CEMEX TEST SLANT WELL AND MONITORING WELL CONSTRUCTION

3.1 Test Slant Well

The first Phase of Test Slant Well Investigation commenced with construction of a 724 ft Test Slant Well (TSW) at an angle of 19 degrees below horizontal at the CEMEX site. Construction began on December 27th, 2014 and was completed through the five-day pumping test on April 8, 2015. The second phase of the Test Slant Well Investigation will include a long-term pumping test once baseline water and TDS levels have been established. The table below provides a brief overview of the TSW construction and short-term testing chronology:

Test Slant Well Construction and Testing Chronology

| Dates | TSW Construction Phase |
|--------------------------------------|---|
| December 27 through January 28, 2014 | Pilot Borehole Drilling to a measured depth (MD) of 724 feet. |
| January 30 through February 2, 2015 | Installation of 14-inch Well Screen |
| February 2 through February 21 | Filter Pack Installation of 14-inch Well Screen |
| February 22 through March 11 | Installation of 18-inch Well Screen |
| March 11 through March 14 | Filter Pack Installation of 18-inch Well Screen |
| March 14 | Installation of Sanitary Seal |
| March 14 through March 16 | Installation of Stainless Steel Submersible Pump |
| March 20 | NPDES Sampling-Pumped well for 2-Hours |
| March 20 through March 24 | Well was Idle |
| March 24 through March 31 | Well Development using Submersible Pump |
| March 31 through April 2 | Well was Idle |
| April 2 | Step-Drawdown Pump Testing |
| April 3 through April 8, 2015 | 5-Day Constant Rate Pumping Test |

The chronology of well construction and preliminary pumping tests are shown in timeline format on Figure 1-2. Figure 1-3 shows the as built cross section of the test slant well along with the geologic formations encountered.

3.2 Monitoring Well Construction

Per the Hydrogeologic Investigation Workplan, monitoring wells have been constructed on the CEMEX property in the vicinity of the Test Slant Well to provide information on hydrology and water quality. The locations of the monitoring wells are shown on Figure 1-1 and technical details summarized in Table 1. Initially four sets of monitoring wells were proposed for the CEMEX property. However, due to time constraints and the limitation of the working area near the test slant well, the MW-2 series was not constructed during the period that equipment access was allowed in the project area. The MW-5 and MW-6 series (shown on Figure 1-1) were selected by CalAm to provide water level and water quality data at farther distances from the test slant well site. Subsequently, Monterey County Water Resources Agency requested four additional monitoring well clusters (MW-7, MW-8, MW-9 and MW-10¹) at various locations. These sites are also shown on Figure 1-1 and are in process to be constructed. The monitoring wells were drilled using the Sonic Drilling method and completed in the various underlying aquifers at each location. At the CEMEX site, monitoring wells were completed in the Dune Sand Aquifer, 180-Foot Aquifer, and 400-Foot Aquifer. Monitoring well cluster MW-6 near the Salinas River

¹ Currently MW-10 shown on Figure 1-1 is inaccessible and may be moved.

was recently completed and (MW-8, and MW-9) are anticipated to be completed in the “Perched A”, 180-Foot Aquifer, and the 400-Foot Aquifer. Each monitoring well within a monitoring well cluster was (and will be) constructed in separate boreholes (i.e., one screen interval per well) to ensure proper sealing and separation between aquifers, and to ensure that representative aquifer sampling. A summary of information for the monitoring wells is provided in Table 1. A complete report of monitoring well construction will be prepared after all monitoring wells have been constructed. The table below provides a summary of construction dates for the monitoring wells to date.

| Monitoring Well Construction Chronology | | |
|---|----------------------|--------------------------------|
| Monitoring Well Series | Monitoring Well I.D. | Construction/Development Dates |
| MW-1 | MW-1S | 1/24/15-2/13/15 |
| | MW-1M | 1/20/15-2/13/15 |
| | MW-1D | 12/10/14-12/19/14 |
| MW-3 | MW-3S | 2/18/15-2/24/15 |
| | MW-3M | 2/9/15-2/24/15 |
| | MW-3D | 2/2/15-2/21/15 |
| MW-4 | MW-4S | 2/10/15-3/7/15 |
| | MW-4M | 2/6/15-3/6/15 |
| | MW-4D | 12/20/14-1/19/15 |
| MW-5 | MW-5S | 1/28/15-3/10/15 |
| | MW-5M | 1/21/15-3/8/15 |
| | MW-5D | 12/16/14-2/17/15 |
| MW-6 | MW-6S | 3/21/15-4/5/15 |
| | MW-6M | 3/1/15-4/4/15 |
| | MW-6D | 2/18/15-4/2/15 |

4.0 MONITORING WELL NETWORK

During the period from December 2014 to April 5, 2015 five monitoring well clusters were constructed (MW-1, MW-3, MW-4, MW-5 and MW-6) with each cluster consisting of three monitoring wells completed at different depth intervals. In addition, one monitoring well cluster (MW-6) was recently completed (5-Apr-15) and four more clusters are planned for construction (MW-7, MW-8, MW-9, and MW-10). The naming convention for the monitoring wells in each cluster is as follows: MW-1S, MW-1M and MW-1D refer to shallow, middle and deep monitoring zones respectively for monitoring well cluster MW-1. In addition, there are several existing wells which are being monitored or are planned to be

monitored for water level and salinity: two wells² at the Monterey Regional Water Pollution Control Agency Plant (MRWPCA Well 1 and Well 2); and two existing wells³ on the CEMEX property. In addition to the already constructed, planned and existing groundwater monitoring wells, a stilling well installed at the north end of the CEMEX's dredge pond is also being monitored.

5.0 MONITORING DURING THE PERIOD 19-FEB-15 THROUGH 10-APR-15

Data monitoring began on 19-Feb-15 and since the start of monitoring five monitoring reports have been prepared:

- Monitoring Report No. 1, dated March 16, 2015 covers the period 19-Feb-15 - 13-Mar-15.
- Monitoring Report No. 2, dated March 23, 2015 covers the period 13-Mar-15 - 20-Mar-15.
- Monitoring Report No. 3, dated March 30, 2015 covers the period 20-Mar-15 - 27-Mar-15.
- Monitoring Report No. 4, dated April 6, 2015 covers the period 27-Mar-15 - 3-Apr-15.
- Monitoring Report No. 5, dated April 13, 2015 covers the period 3-Apr-15 -10-Apr-15.

These reports are posted on the project website: www.watersupplyproject.org

This report contains figures from the latest monitoring report (Monitoring Report No. 5). Figures 2-1 to 2-4 show graphical plots of groundwater elevations for the four monitoring well clusters (MW-1, MW-3, MW-4 and MW-5). Figure 2-5 shows groundwater elevations for existing wells MRWPCA Well 1 and Well 2. Similarly, Figures 3-1 through 3-5 show corresponding graphical plots of the TDS (based on EC measurements) for the above-mentioned wells. Figure 2-6 and 3-6 are water levels and TDS for the CEMEX dredge pond respectively. Figure 2-7 are water levels for the CEMEX north well and Figures 2-8 and 3-7 are water levels and TDS respectively for the Test Slant Well.

² MCPCA Wells No. 1 and 2 were equipped with pressure transducers on 19-Feb-15. Both wells are screened over the same depth interval, however water levels indicated by the transducers were 70 ft apart. Since there is a thick layer of oil in Well No. 2, these readings were interpreted as being inaccurate and further readings were suspended.

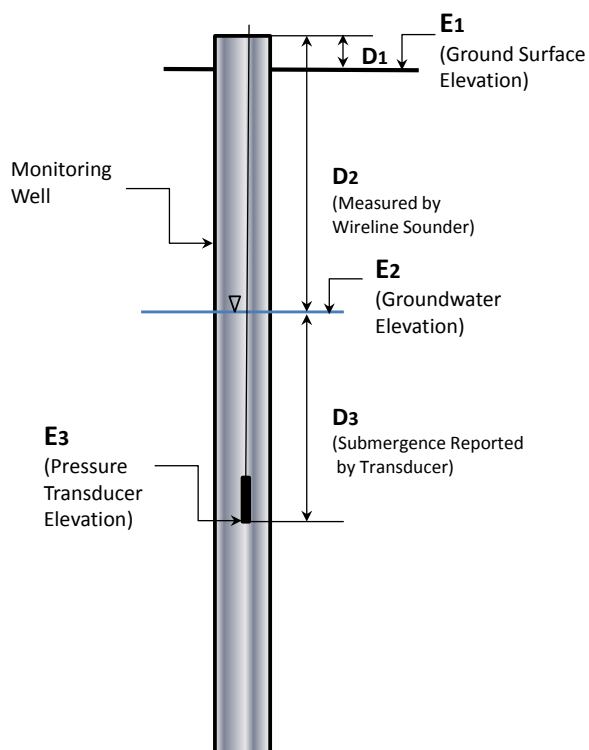
³ The CEMEX North Well was equipped with a pressure transducer on 2-Apr-15 and will continue to be part of the monitoring program.

5.1 Type of Monitoring Performed

5.1.1 Groundwater Elevations

5.1.1.1 Data Loggers

In order to monitor groundwater elevations, In-Situ AquaTROLL 200 Data Loggers have been installed in the monitoring wells at the depths shown on Table 1. These instruments include pressure transducers, conductivity and temperature sensors, and have continuous data recording capability. As the pressure transducers only record pressure, groundwater elevations (E2) are calculated by dividing the transducer pressure by temperature corrected specific weight⁴ of water and adding this depth (D3) to the elevation of the transducer (E3). The data loggers are programmed to record pressure every 15 minutes, and are downloaded on a weekly basis. The transducer measurements are verified with hand measured water levels when the data loggers are downloaded. Instruments that report groundwater elevations that are inconsistent with hand levels are removed from the well and serviced or replaced.



5.1.1.2 Hand Levels

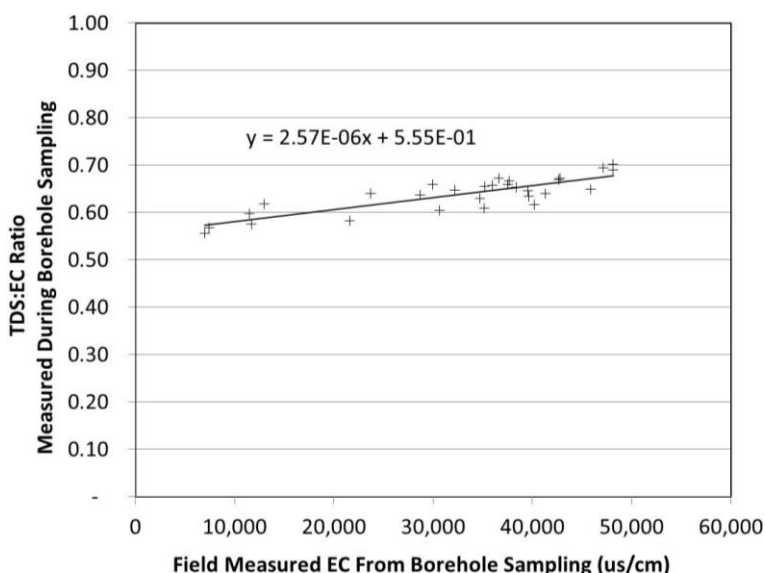
Groundwater elevations in the CEMEX area monitoring wells are measured manually during the weekly data logger downloads or daily when a transducer is removed or repaired. An electric wire line water level indicator is used to measure the depth to water below the surveyed reference point (at the top of the PVC casing of each well-see Table 1). The reference point for each well is measured and Manual measurements are taken more frequently during pumping tests and in wells that are not equipped with data loggers. During the five day pumping test, ground water elevations in the CEMEX area wells were measured multiple times per day. Ground water elevations in wells farther from CEMEX were measured

⁴ The specific weight (γ), also known as the unit weight, is the weight per unit volume of a material. The specific weight of water is the density x specific gravity. For fresh water, $\gamma = 62.43 \text{ lbs/ft}^3$, for seawater with a specific gravity of 1.024, the specific weight = 63.93 lbs/ft^3 .

at least once per day. Depth to water in each of the monitoring wells (with the exception of the MRWPCA Well No. 1) were measured daily during the long term pumping test. The hand level measurements were used to verify transducer data. If transducer measured ground water elevations were not consistent with hand level groundwater elevations, the transducer was removed and serviced (or replaced).

5.1.2 Total Dissolved Solids

The AquaTROLL 200 data loggers from In-Situ were installed in the CEMEX area wells and measure pressure, specific electrical conductance (conductivity or EC) and temperature. Total dissolved solids are estimated by multiplying the temperature corrected EC by a conversion factor determined for the CEMEX area (see inset chart on the right). The conversion factor (TDS:EC ratio), was calculated from laboratory analyses of borehole water quality samples in the CEMEX area.



Conductivity reported by the AquaTroll level loggers were verified by daily down hole conductivity measurements recorded by a Solinst Model 107 TLC meter. If the data logger data cannot be verified, the instrument was removed and serviced. If a currently installed Aqua troll cannot be calibrated to meet laboratory or TLC measurements, it is replaced. Periodically, bailed and pumped samples are also taken for laboratory analysis.

5.1.3 Groundwater Samples Collected by Pumping

Groundwater Quality samples were collected from the Test Slant Well for NPDES requirements on March 20 and March 24, 2015. Groundwater Samples were also collected from the TSW at the end of the 5-Day Short-term Pumping Test. The water quality data are summarized in Table 2. Water Quality samples from all of the monitoring wells were collected at the end of development process for each well. A second set of water quality samples were collected from Monitoring Wells MW-4 and MW-5 before the 5-Day constant rate pumping test and from MW-1 and MW-3 immediately after the 5-day pumping test. The results of the full water quality analysis for the monitoring wells are also tabulated in

Table 2. Groundwater samples were collected by pumping after a minimum of three well volumes were pumped and that the field parameters of Dissolved oxygen, turbidity, temperature, electrical conductivity, and pH remained stable over three consecutive 5-minute readings. The table below provides a summary of TDS concentrations from the water quality data.

Table 2. Summary of Laboratory TDS Concentrations from Test Slant Well and Monitoring Wells

| Well Name | Screen Interval (ft bgs) | Sample Date | Total Diss. Solids, mg/L |
|-----------------|---|-------------|--------------------------|
| Test Slant Well | 140 - 245, 400 - 710 (MD), (44.4-101.5, 126.9-225.3 ft True Vertical Depth) | 3/20/15 | 25,300 |
| | | 3/24/15 | 24,400 |
| | | 4/8/15 | 25,400 |
| MW-1S | 55 - 95 | 2/13/15 | 26,600 |
| | | 4/9/15 | 27,500 |
| MW-1M | 115 - 225 | 2/14/15 | 30,900 |
| | | 4/9/15 | 28,300 |
| MW-1D | 277 - 327 | 2/14/15 | 29,100 |
| | | 4/9/15 | 28,700 |
| MW-3S | 50 - 90 | 2/25/15 | 23,400 |
| | | 4/10/15 | 23,300 |
| MW-3M | 105 - 215 | 2/24/15 | 28,500 |
| | | 4/10/15 | 28,300 |
| MW-3D | 280 - 330 | 2/21/15 | 32,600 |
| | | 4/10/15 | 28,600 |
| MW-4S | 50 - 90 | 3/7/15 | 11,900 |
| | | 4/2/15 | 12,800 |
| MW-4M | 100 - 230 | 3/6/15 | 17,900 |
| | | 4/2/15 | 17,500 |
| MW-4D | 280 - 330 | 2/19/15 | 27,500 |
| | | 4/2/15 | 27,600 |
| MW-5S | 50 - 90 | 3/10/15 | 1,166 |
| | | 4/2/15 | 1,117 |
| MW-5M | 100 - 325 | 3/3/15 | 663 |
| | | 4/2/15 | 454 |
| MW-5D | 380 - 430 | 2/17/15 | 2,616 |
| | | 4/2/15 | 2,437 |

5.1.4 Bailed Samples Collected during the 5-Day constant Rate

Groundwater Samples were collected using a low density polyethylene (LDPE) bailer from the monitoring wells during the 5-Day constant rate test to provide additional electrical conductivity data

for the monitoring wells. The bailer was allowed to descend to the depth at which each transducer was set to collect a sample from the specific depth interval. The table below summarizes the frequency of the sample collection using the bailer during the 5-Day constant rate test.

| Bailed Samples Collected During 5-Day Constant Rate Test | | | | | |
|--|-------|-------|-------|---------|-------|
| | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| MW-1 | ✓ | ✓ | ✓ | 1M only | ✓ |
| MW-3 | ✓ | ✓ | ✓ | | ✓ |
| MW-4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| MW-5 | ✓ | ✓ | ✓ | | |

Water samples collected using the pump represent a mix of water from the entire well screen, the volume contribution determined by the transmissivity associated with individual lithologic units. Bailed samples most likely represent the aquifer at the depth the bailer is stopped (in the bottom portion of the bailer) as well as aquifer materials higher in the screen interval as the bailer is pulled up through the water column. Since the MW-4 series monitoring wells provide the threshold measurements for evaluating potential off-site impacts to the 180-FTE and 400-Foot Aquifers, determination of the baseline water quality and water levels in these monitoring wells is the focus of the following discussion.

The conductivity values from the bailed samples from the MW-4 series varied from both laboratory results of samples collected by pumping and the from transducer readings. In general the conductivity values were lower than from the pump collected samples, suggesting TDS concentrations are stratified in the aquifer resulting in vertical variation TDS concentrations in the aquifer units opposite the well screen. This also reflects that there is some downward transition of water quality from the Dune Sand Aquifer to the top of the 180-FTE.

Specifically:

- The temperature log obtained after drilling the borehole for MW-4D shows marked temperature changes in the borehole at various depths,
- TDS calculated from the borehole resistivity log suggests a vertical variation in TDS with depth.
- Zone Test Samples collected during the Borehole Investigation also showed a variation in TDS concentrations with depth.

Due to the apparent vertical stratification of TDS concentrations in the MW-4 borehole, the use of changes in TDS concentrations in the MW-4 series to assess impacts from test slant well long-term pumping should include at a minimum of three separate approaches to validate TDS changes. Recommendations for water quality monitoring of MW-4 series are discussed below.

6.0 SUMMARY OF BASELINE AND TDS LEVELS

6.1 Summary of Water levels During Baseline Period

Ground water levels have been collected from monitoring wells after completion. Weekly monitoring reports presenting groundwater level and TDS concentrations in monitoring wells, the CEMEX Dredge Pond, CEMEX North Well, and from the Test Slant Well have been provided for public review on the CalAm website. A total of five monitoring reports have been submitted with Monitoring Report No. 1 submitted on March 16, 2015 and Monitoring Report submitted on April 13, 2015. New data has been added to the weekly reports as it becomes available each week. The groundwater level plots provided in Monitoring Report No. 5 are included in this report as Figures 2-1 through 2-8. The table below provides a summary of water level trends in the monitoring wells.

Baseline Groundwater Level Trend Observations – MPWSP Monitoring Wells

| Monitoring Well I.D. | Beginning of Record | Figure Number | Observation of Groundwater Level Trends |
|----------------------|---------------------|---------------|--|
| MW-1S | 2/19/15 | Figure 2-1 | Groundwater Levels are influenced by tidal changes. Hand level measurements indicate a slight overall downward trend after levels are corrected for tides. |
| MW-1M | 2/19/15 | | Groundwater Levels are influenced by tidal changes. Hand level measurements indicate a stable trend after levels are corrected for tides. |
| MW-1D | 2/18/15 | | Due to confined condition in the deep completion, groundwater Levels show the greatest are influence by tidal changes. Hand level measurements indicate a downward trend beginning March 4, 2015 approximately three weeks prior to first pump discharge (March 20, 2015). |
| MW-3S | 3/4/15 | Figure 2-2 | Hand level measurements indicate a stable trend. |
| MW-3M | 3/4/15 | | Hand level measurements indicate a stable trend. |
| MW-3D | 3/4/15 | | Due to confined condition, groundwater Levels show the greatest are influence by tidal changes. Hand level measurements indicate a downward trend beginning March 10, 2015 approximately two weeks prior to first pump discharge (March 20, 2015). |
| MW-4S | 3/10/15 | Figure 2-3 | Hand level measurements indicate a stable trend |
| MW-4M | 3/10/15 | | Hand level measurements indicate a slight downward trend from March 9 through March 27 and are stable through the remaining period |
| MW-4D | 2/20/15 | | Due to confined conditions in the aquifer, groundwater levels show some influence from tidal changes. Hand level measurements indicate a downward beginning March 4, 2015 approximately three weeks prior to first pump discharge (March 20, 2015) and show a slight upward trend approximately two days in to the 5-Day Constant Rate Pumping Test. |
| MW-5S | 3/10/15 | Figure 2-4 | Hand level measurements indicate a stable trend |
| MW-5M | 3/10/15 | | Hand level measurements indicate a slight downward trend from March 9 through March 27 and are stable through the remaining period |
| MW-5D | 2/19/15 | | Groundwater levels show very muted response to tidal changes. Hand level measurements indicate a downward beginning March 6, 2015 approximately three weeks prior to first pump discharge (March 20, 2015) and and fluctuate both downward and upward until the end of the current recording period. |
| CPCA Well No. | 2/18/15 | Figure 2-5 | The groundwater levels show a very slight downward trend form immediately after installation of the transducer. The trend appears to be consistent with water levels in the deep completions of the monitoring wells. |

In summary, the monitoring well completions in the 400-Foot Aquifer show a slight downward trend or fluctuating trend beginning a minimum of two weeks before the first pumping of the test slant well. This trend in the deep completions is due to regional conditions in the aquifer including localized pumping from wells near the MW-5 series. It is anticipated that groundwater levels in the deep completions will continue to decline with the approach of the summer climactic conditions.

6.2 Summary of TDS Concentrations in Wells During Baseline Period

Water quality samples were collected from each monitoring well after development and again prior to the 5-Day Constant Rate pumping test. The laboratory results are summarized on the table shown on Page 9 of this technical memorandum. In addition downhole pressure transducers with the capability to measure electrical conductivity were installed in all monitoring wells, the TSW, the CEMEX north well, CEMEX dredge pond, and the MCRPCA Well No. 1. The weekly monitoring reports have presented TDS concentrations in monitoring wells, the CEMEX Dredge Pond, CEMEX North Well, and from the Test Slant Well have been provided for public review on the CalAm website. A total of five monitoring reports have been submitted with Monitoring Report No. 1 submitted on March 16, 2015 and Monitoring Report submitted on April 13, 2015. New data has been added to the weekly reports as it becomes available each week. The TDS concentration plots provided in Monitoring Report No. 5 are included in this report as Figures 3-1 through 3-7. The table below provides a summary of TDS trends in the monitoring wells and the MCRPCA ell No. 1 during the baseline period.

Baseline TDS Concentration Trend Observations – MPWSP Monitoring Wells

| Monitoring Well I.D. | Beginning of Record | Figure Number | Observation of TDS Trends |
|----------------------|---------------------|---------------|---|
| MW-1S | 2/19/15 | Figure 3-1 | TDS concentration trend is influenced by tidal changes. The TDS trend is stable until initiating discharge from the TSW pump. After initiating of pumping, TDS concentrations have increased. |
| MW-1M | 2/19/15 | | TDS concentration is influenced by tidal changes, but much less than MW-1S. The TDS trend is stable until approximately three days of pump development have occurred (March 27, 2015). TDS concentrations increase through pump development and increase at a higher rate after initiation of the 5-Day Constant Rate Pumping Test. |
| MW-1D | 2/18/15 | | TDS concentration is largely influenced by tidal changes and shows a cyclic overprint on the daily tidal change of approximately 8-9 days. The TDS concentration change shows no influence from the initiation of pump discharge or the 5-Day Constant Rate Test |
| MW-3S | 3/4/15 | Figure 3-2 | The transducer plot was stable for approximately two weeks after installation showing a muted response to daily tidal changes. On March 20, 2015, the transducer was removed and cleaned. The result was drop in TDS reporting and an increase in the recording of daily tidal changes. |
| MW-3M | 3/4/15 | | TDS concentration shows a stable trend |
| MW-3D | 3/4/15 | | TDS concentration plot indicates a rise in TDS concentration for approximately seven days after installation and then a steady decrease in concentration for the remainder of the record. Both trends may likely be transducer drift. The trend shows a muted response to daily tidal changes. The TDS concentrations stabilize immediately after initiation of the 5-Day Constant Rate Pumping Test and show an apparent rise in TDS immediately after the test is completed |
| MW-4S | 3/10/15 | Figure 3-3 | The TDS concentration in MW-4S appears to be stable. |
| MW-4M | 3/10/15 | | The transducers in MW-4M showed an obvious upward drift and was replaced on April 2, 2015 prior to the 5-Day Constant Rate Pumping Test. After replacement, the TDS concentration plots remain stable through the end of the period. |
| MW-4D | 2/20/15 | | The transducer in MW-4D was replaced prior to the 5-Day pumping test due to what appears as transducer drift. After replacement, the TDS concentration show a downward trend until the end of the 5-Day test and appear to stabilize for the remainder of the period. |
| MW-5S | 3/10/15 | Figure 3-4 | The TDS concentration in MW-5S appears to be stable. |
| MW-5M | 3/10/15 | | The TDS concentration in MW-5S appears to be stable. |
| MW-5D | 2/19/15 | | The TDS concentration plot shows an erratic trend from approximately 12 days prior the initial discharge from the test slant well pump. The trend is likely due to the combined pumping of wells in the vicinity screened in the 400-Foot Aquifer that operate on various overlapping schedules |
| MCPA Well No. | 2/18/15 | Figure 3-5 | The TDS concentration in the MCPA Well No. 1 shows a slight upward trend (150 mg/L) during the period of record (51 days). The very slight upward trend began immediately after transducer installation on February 18, 2015. |

7.0 RECOMMENDED MONITORING OF BASELINE AND TDS LEVELS

7.1 Monitoring of Groundwater Levels in MW-4 Series

Groundwater level measurements will be collected daily using a hand operated electric sounder in addition to pressure transducers. Groundwater levels will be measured daily by hand to validate the electronic logging devices to such time that the devices are deemed to be providing consistent accurate data. After this time, hand levels will be collected biweekly, then monthly when transducer data is downloaded.

If ground water levels at MW-4 show a continuing downward trend but prior to reaching the threshold prescribed by CDP Condition 11, the test slant well will be voluntarily shut off. If the test slant well is the cause of the downward trend in groundwater levels at MW-4, then groundwater levels will show a recovering trend. If the groundwater levels do not recover, then this is indicative of regional and climatic impacts. The data will be reviewed by the HWG for confirmation and the test slant well will resume pumping. If the ground water levels continue to decline after start up, then the data indicative of impacts other the slant well will be submitted to the Coastal Commission Executive Director, prior to reaching the threshold.

7.2 Monitoring of TDS Concentration Changes in MW-4 Series

Due to the apparent vertical stratification of TDS concentrations in the MW-4 borehole, the use of changes in TDS concentrations in MW-4 series to assess impacts from test slant well long-term pumping should include at a minimum three forms of validation of TDS changes:

- 1) Samples will be collected using a pump set at the same depth, pumped at the same rate and for the approximate same time interval before sample collection. Samples should be submitted for laboratory analysis. Laboratory results should be compared to previous laboratory results collected from the MW-4 series. Samples in MW-4 will be collected using dedicated pumps set in each of the MW-4 series monitoring wells
- 2) Transducers recording water levels and electrical conductivity will be set and remain at the same depth in each monitoring well. The conductivity input should be checked and re-calibrated if necessary using a down hole conductivity meter daily when water levels are hand measured, and
- 3) A down whole conductivity meter will be used to collect conductivity from a minimum of two selected depths daily when the hand levels are collected from each well.

Each method prescribed above will be compared with the data collected by that method to determine whether TDS concentrations remain within acceptable levels or show an increasing trend. Seasonal changes in TDS may result from potential seasonal changes in ground water levels aside from changes potentially induced by groundwater extraction from the test slant well. Changes in TDS will also be compared to changes in groundwater levels to evaluate whether TDS changes represent seasonal water quality change in the underlying aquifers.

If two of the three methods used indicate a rising trend in the MW-4 series monitoring wells, the data will be submitted to the HWG for review prior to reaching the threshold prescribed by CDP Condition 11. The HWG will evaluate the data to determine whether rising TDS, should it occur, is a result of TSW pumping or from some other cause.

8.0 COMPLIANCE WITH CDP SPECIAL CONDITION 11

The following summarizes to date CalAm's compliance with Special Condition 11 of the above referenced CDP Protection of Nearby Wells. Specifically:

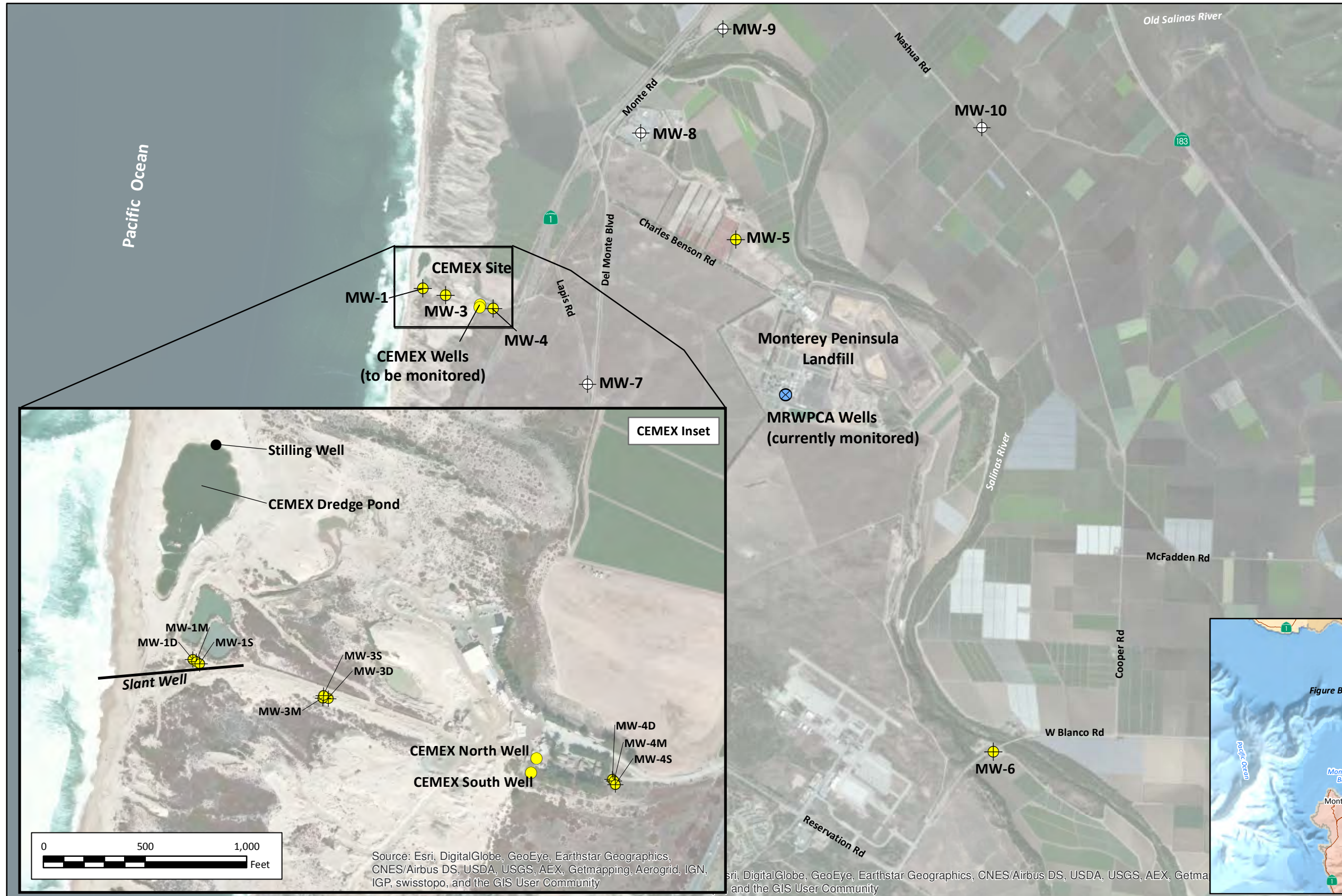
1. Prior to starting project-related pump tests, the permittee shall install monitoring devices in a minimum of four wells on the CEMEX site within 2,000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells. **Cal-Am has Complied.**
2. Prior to commencement of long term pumping tests, the HWG shall establish baseline water and Total Dissolved Solids (TDS) levels in those monitoring wells and recommend these levels to the Executive Director of the California Coastal Commission. **Cal-Am has Complied upon completion of the HWG Review Process of this TM.**
3. During the project pumping tests, the Permittee (Cal-Am) shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices. **Cal-Am has Complied during the short term tests and will comply during the long term testing.**
4. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request. **Cal-Am has Complied and will continue to comply.**

5. If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pumping test and inform the Executive Director. The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and will submit its determination to the Executive Director. **Cal-Am has Complied as during the short term testing these threshold levels were not reached. Cal Am will continue to monitor and comply during the long term testing.**






6. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing to resume. If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit. **Cal-Am will Comply.**

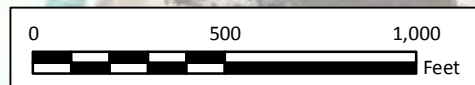
FIGURES

WELLS MONITORED FOR PERMIT COMPLIANCE



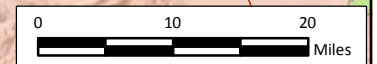
EXPLANATION

-  Existing Monitoring Well Cluster
-  Proposed Monitoring Well Cluster
-  Existing Production Well
-  CEMEX Wells
-  Slant Well

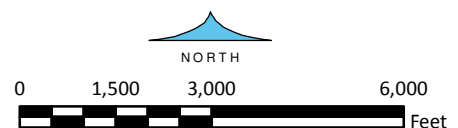


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



15-Apr-15
 Prepared by: DWB. Map Projection: State Plane 1983, Zone IV.
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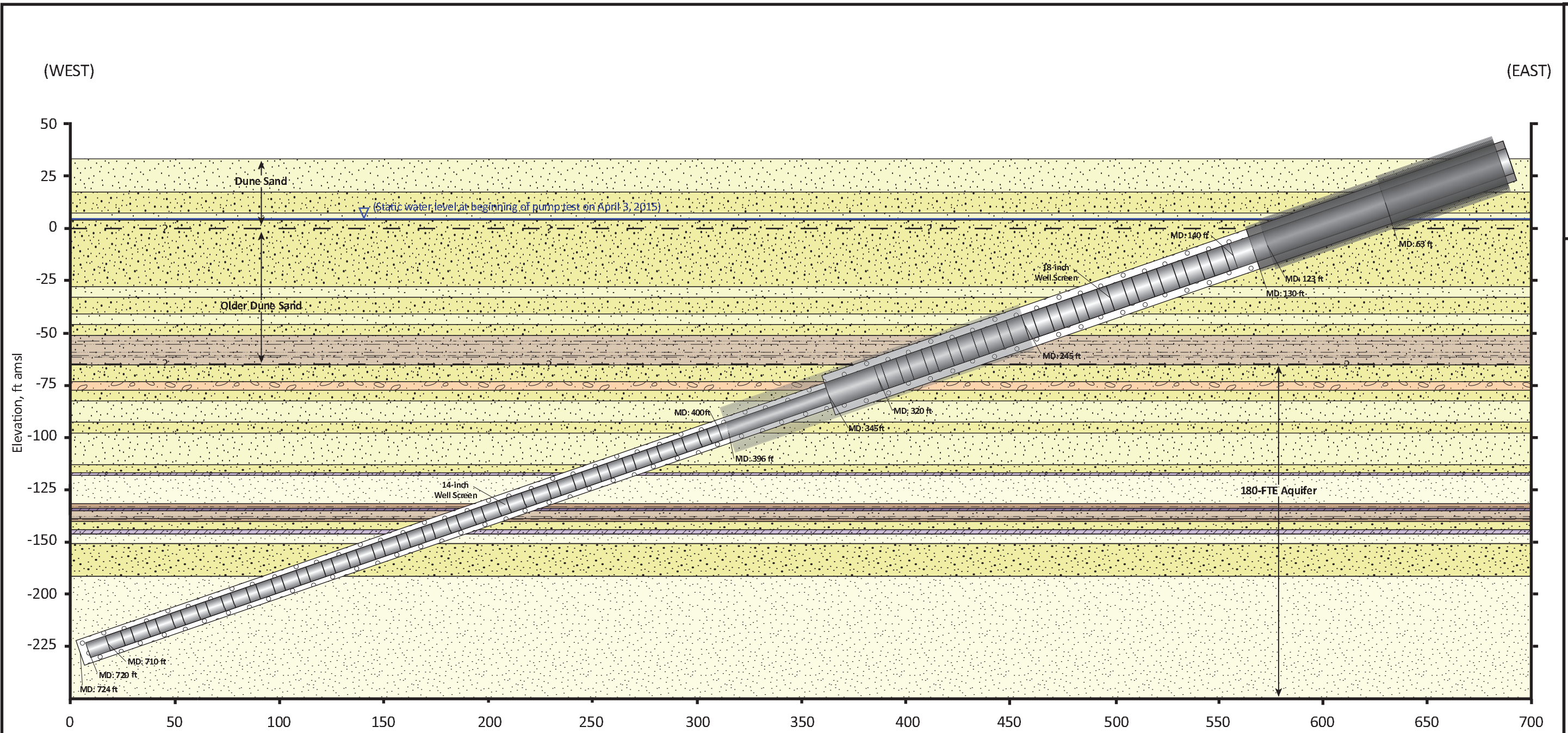


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 www.gssiwater.com

Figure 1-1

Test Slant Well Construction and Preliminary Testing Chronology

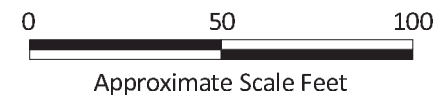
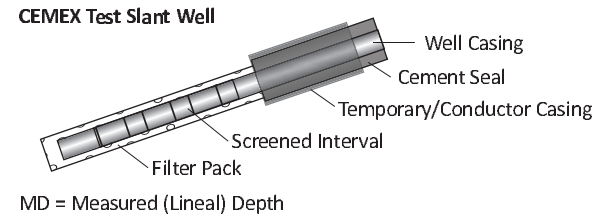
| TASK NAME | Duration | Start | Finish | Dec-15 | January-15 | | | | | February-15 | | | | | March-15 | | | | April-15 | |
|--|----------|-----------|-----------|------------------------|-------------------|---------------------|---------------------|---------------------|------------------------|--------------------|---------------------|---------------------|-------------------------|---------------------|----------------------|----------------------|-------------------------|---------------------|----------|--|
| | | | | Week 1 Dec 27-Jan 2 | Week 2 Jan 3-9 | Week 3 Jan 10-16 | Week 4 Jan 17-23 | Week 5 Jan 24-30 | Week 6 Jan 31-Feb 6 | Week 7 Feb 7-13 | Week 8 Feb 14-20 | Week 9 Feb 21-27 | Week 10 Feb 28-Mar 6 | Week 11 Mar 7-13 | Week 12 Mar 14-20 | Week 13 Mar 21-27 | Week 14 Mar 28-Apr 3 | Week 15 Apr 4-10 | | |
| Test Slant Well | 103 days | 27-Dec-14 | 8-Apr-15 | | | | | | | | | | | | | | | | | |
| Pilot borehole drilling to a measured depth (MD) of 724 ft. | 33 days | 27-Dec-14 | 28-Jan-15 | | | | | | | | | | | | | | | | | |
| Installation of 14-inch well screen | 4 days | 30-Jan-15 | 2-Feb-15 | | | | | | | | | | | | | | | | | |
| Installation of filter pack for 14-inch well screen | 20 days | 2-Feb-15 | 21-Feb-15 | | | | | | | | | | | | | | | | | |
| Installation of 18-inch well screen | 18 days | 22-Feb-15 | 11-Mar-15 | | | | | | | | | | | | | | | | | |
| Installation of filter pack for 18-inch well screen | 4 days | 11-Mar-15 | 14-Mar-15 | | | | | | | | | | | | | | | | | |
| Installation of sanitary seal | 1 day | 14-Mar-15 | 14-Mar-15 | | | | | | | | | | | | | | | | | |
| Installation of stainless steel submersible pump | 3 days | 14-Mar-15 | 16-Mar-15 | | | | | | | | | | | | | | | | | |
| NPDES Sampling: 2 hour well pumping | 2 hours | 20-Mar-15 | 20-Mar-15 | | | | | | | | | | | | | | | | | |
| Well development using submersible pump | 8 days | 24-Mar-15 | 31-Mar-15 | | | | | | | | | | | | | | | | | |
| Step-drawdown pump testing | 1 day | 2-Apr-15 | 2-Apr-15 | | | | | | | | | | | | | | | | | |
| 5-day constant rate pump testing | 6 days* | 3-Apr-15 | 8-Apr-15 | | | | | | | | | | | | | | | | | |



Explanation

- | | | | |
|--|----------------------------------|--|--------------------------------|
| | Sand with Gravel (SP) | | Sand with Silt (SP-SM) |
| | Fine to Coarse Grained Sand (SP) | | Silt or Silt with Sand (ML/SM) |
| | Fine to Medium Grained Sand (SP) | | Clayey Sand (SC) |
| | Fine Grained Sand (SP) | | Clay (CL) |

— ? — Geologic Contact (approximate)



| |
|-----------------|
| Drawn: LC |
| Checked: |
| Approved: |
| Date: 15-Apr-15 |

Figure 1-3

DRAFT

Groundwater Elevation in MPWSP MW-1

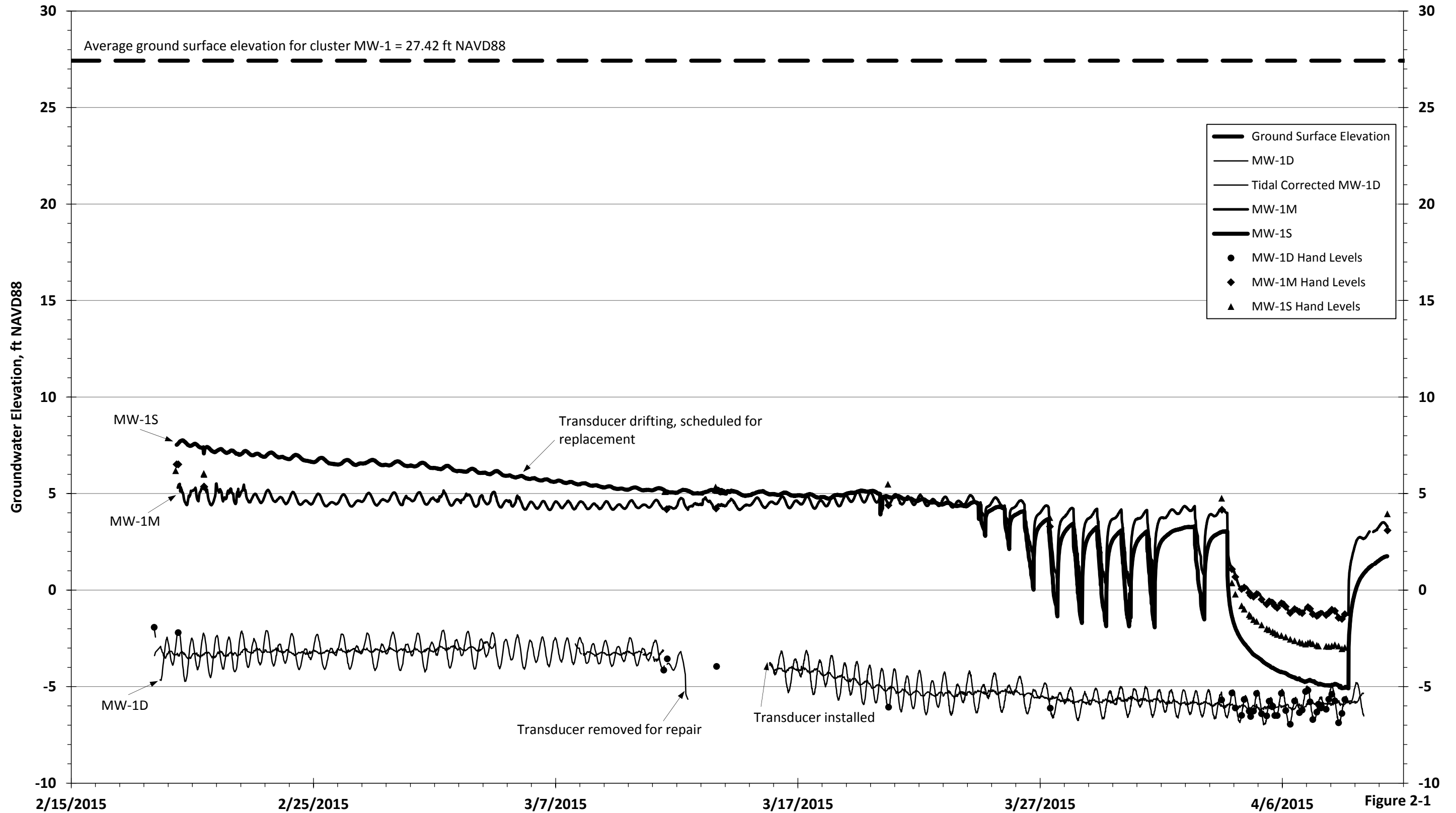


Figure 2-1

Groundwater Elevation in MPWSP MW-3

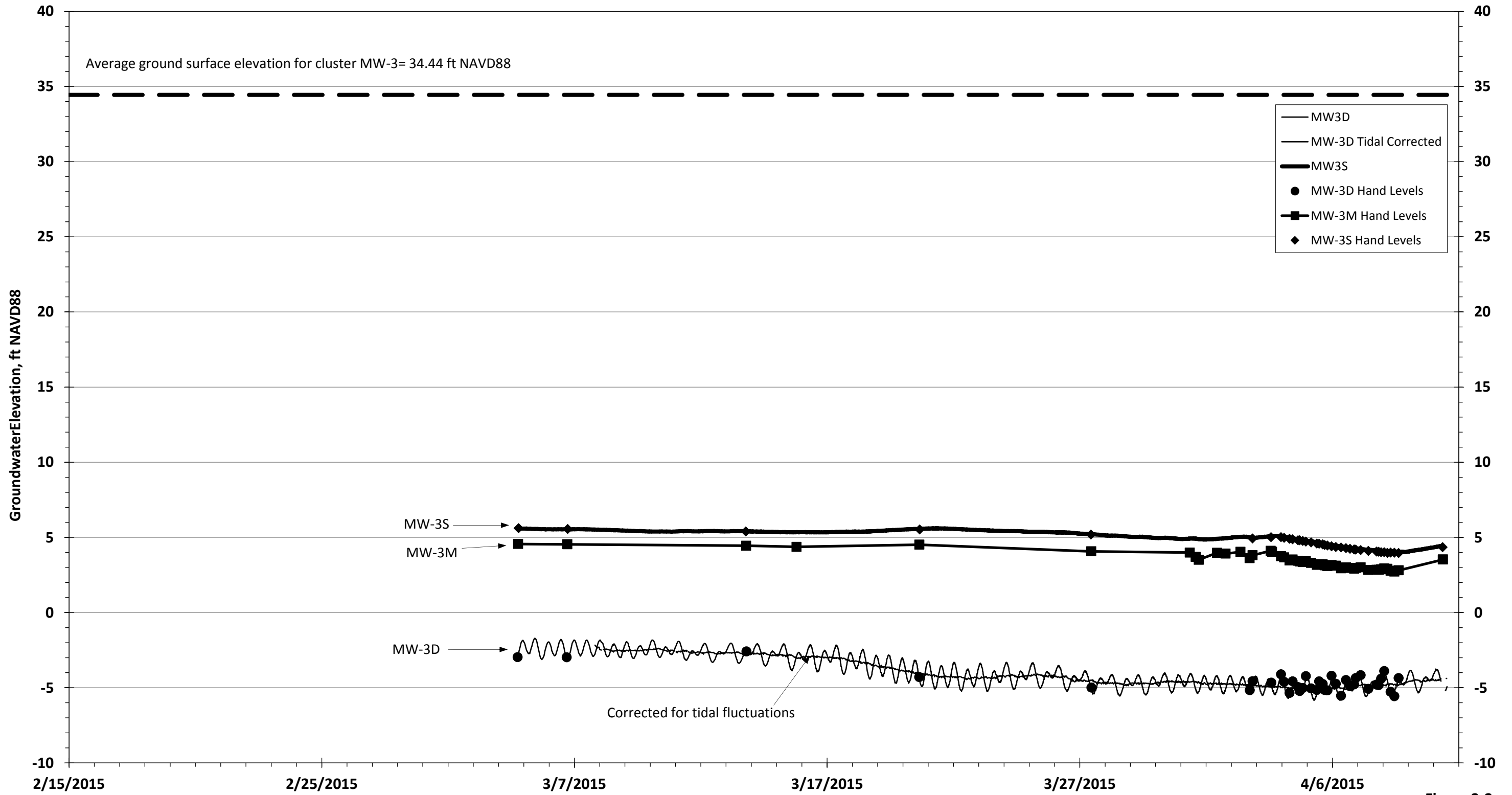


Figure 2-2

Groundwater Elevation in MPSWP MW-4

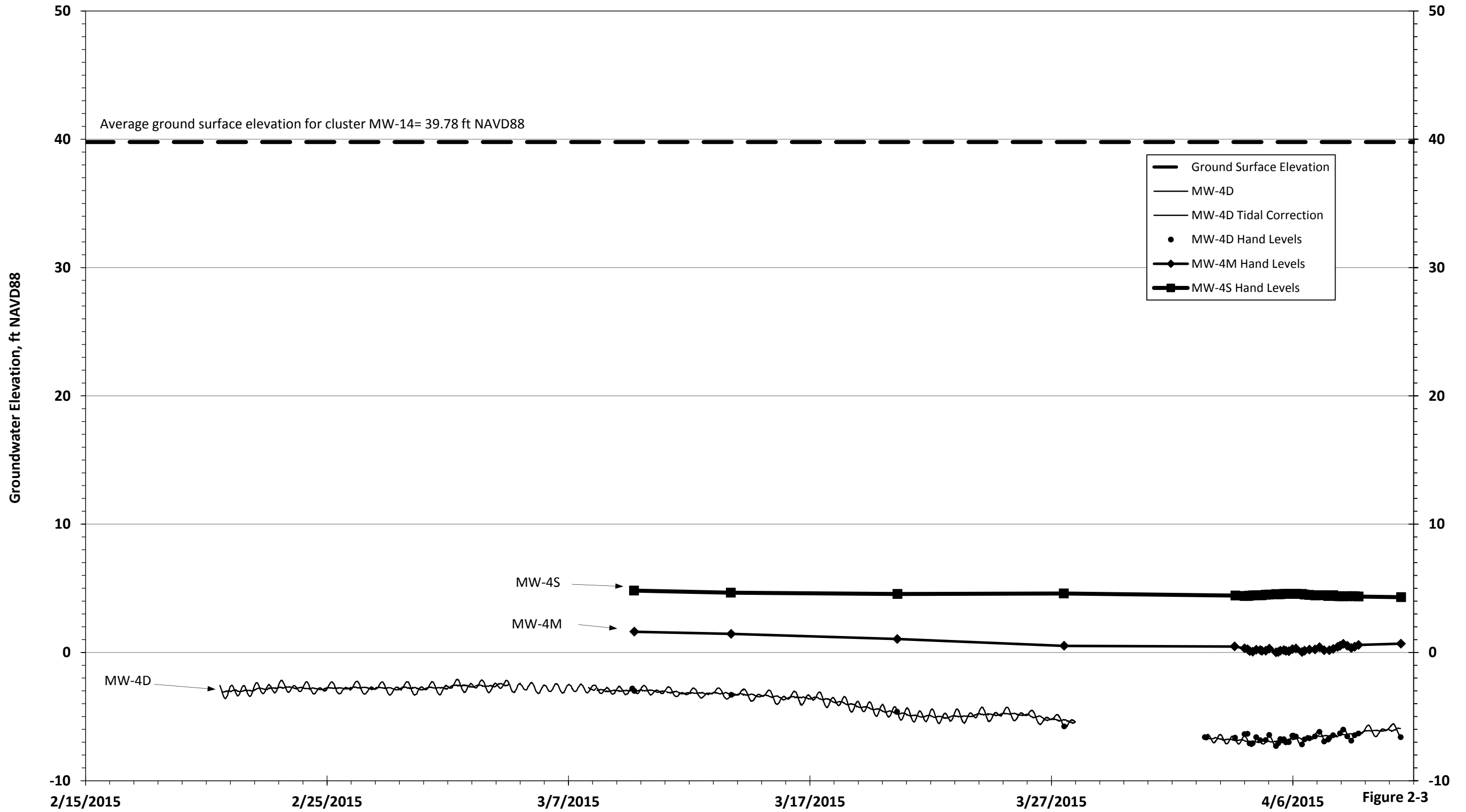


Figure 2-3

Groundwater Elevation in MPWSP MW-5

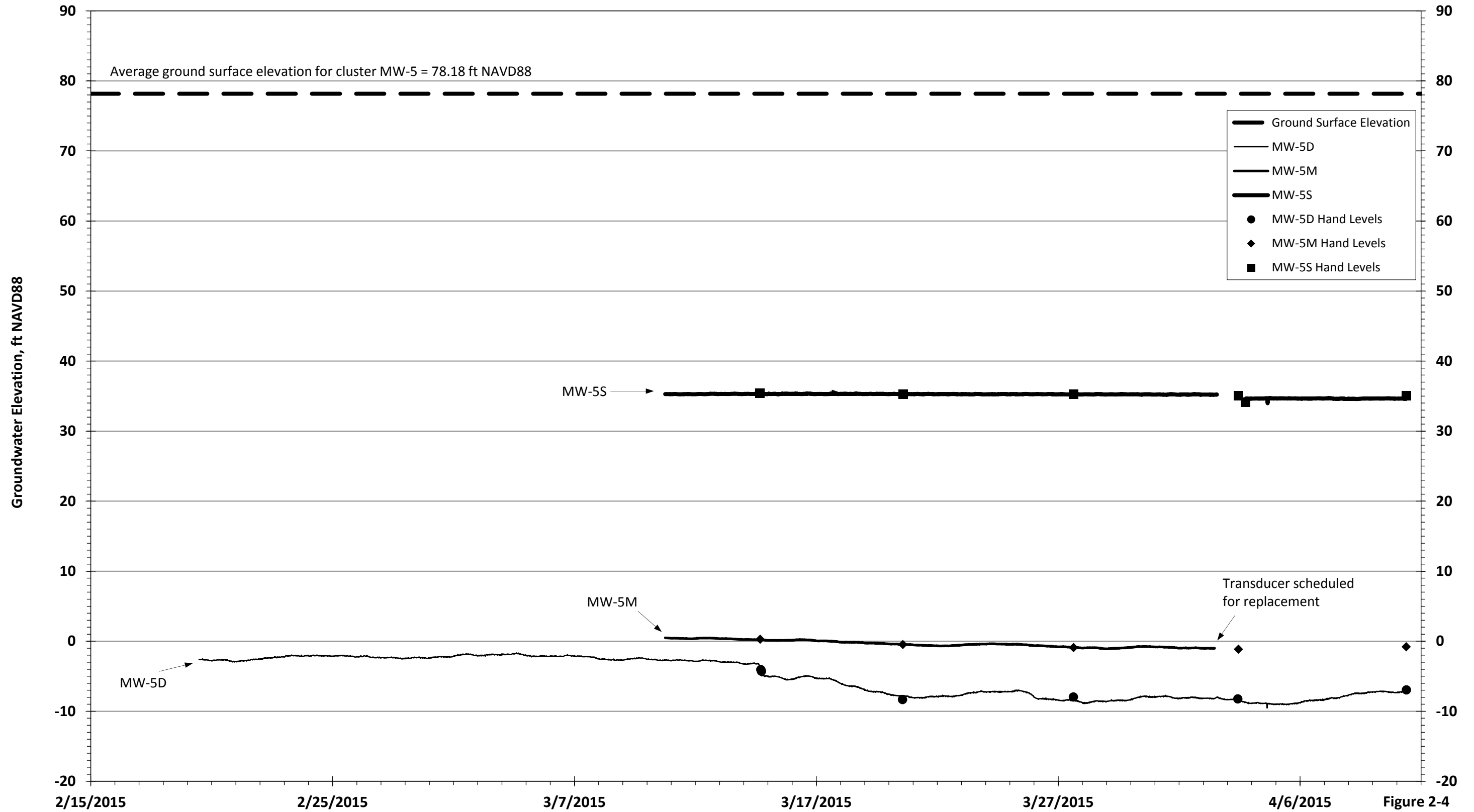


Figure 2-4

Groundwater Elevation in Monterey Regional Water Pollution Control Agency Wells

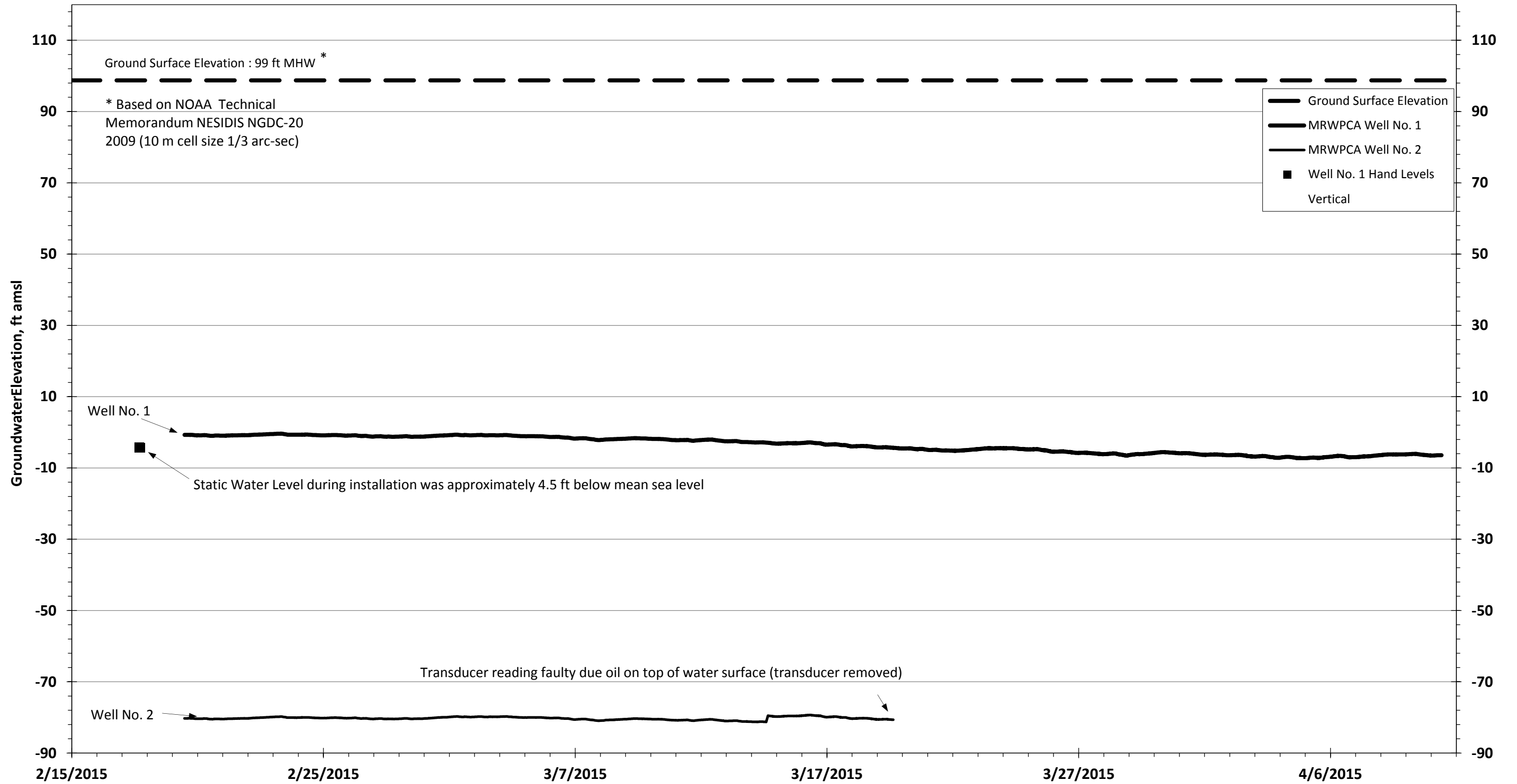


Figure 2-5

Water Elevation in CEMEX Dredge Pond

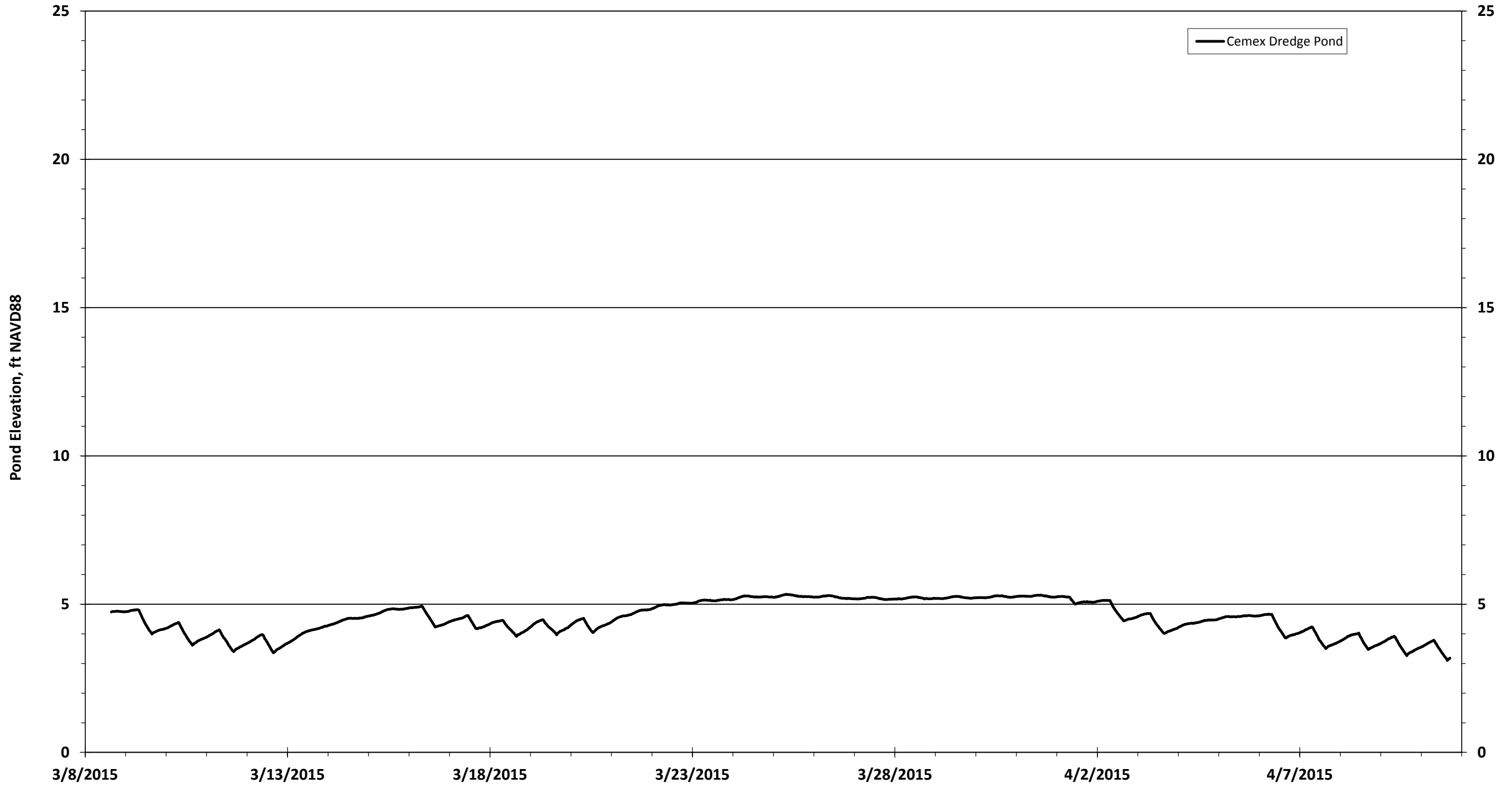


Figure 2-6

Groundwater Elevation in CEMEX North Well

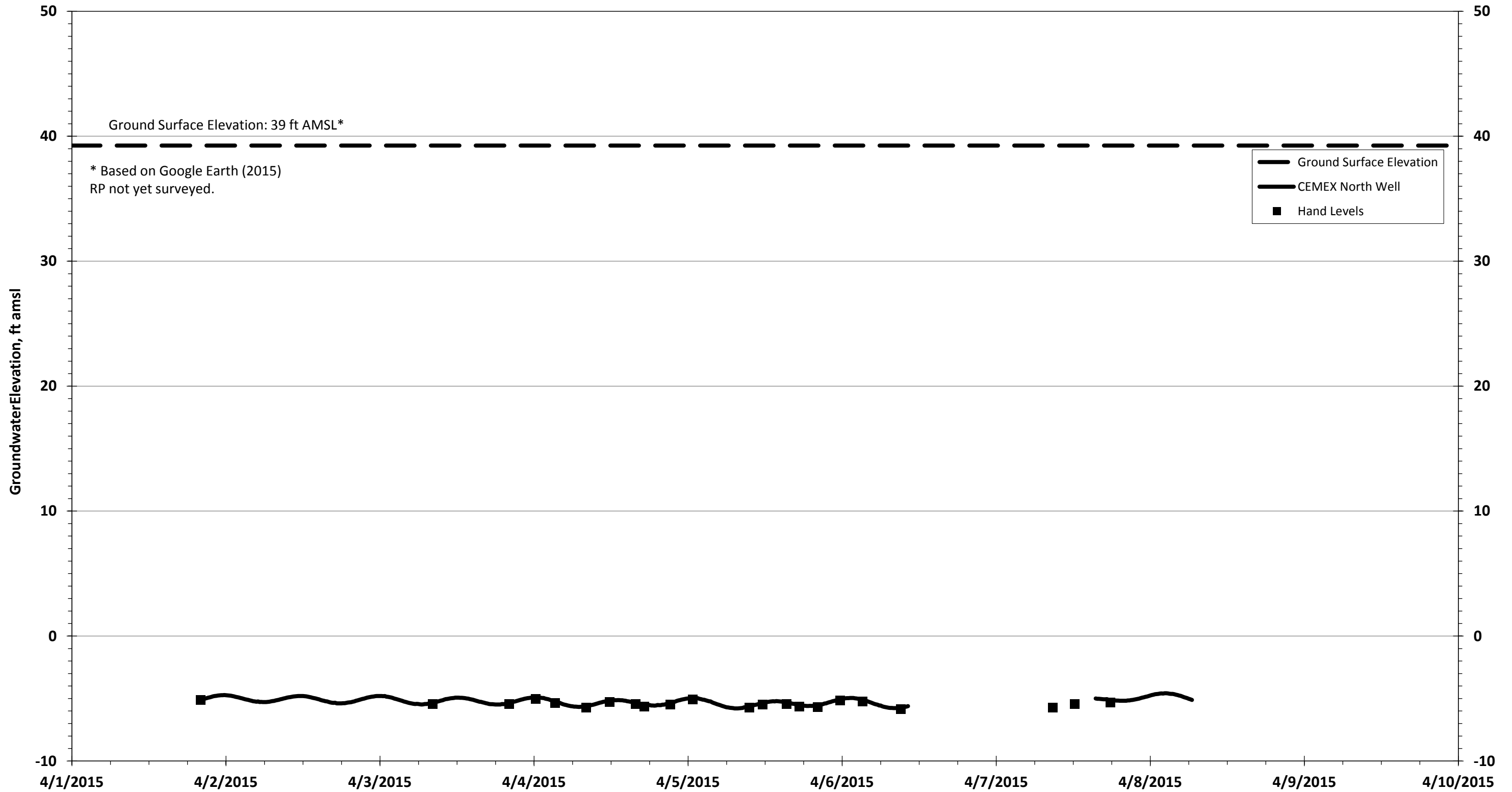


Figure 2-7

Groundwater Elevation Test Slant Well

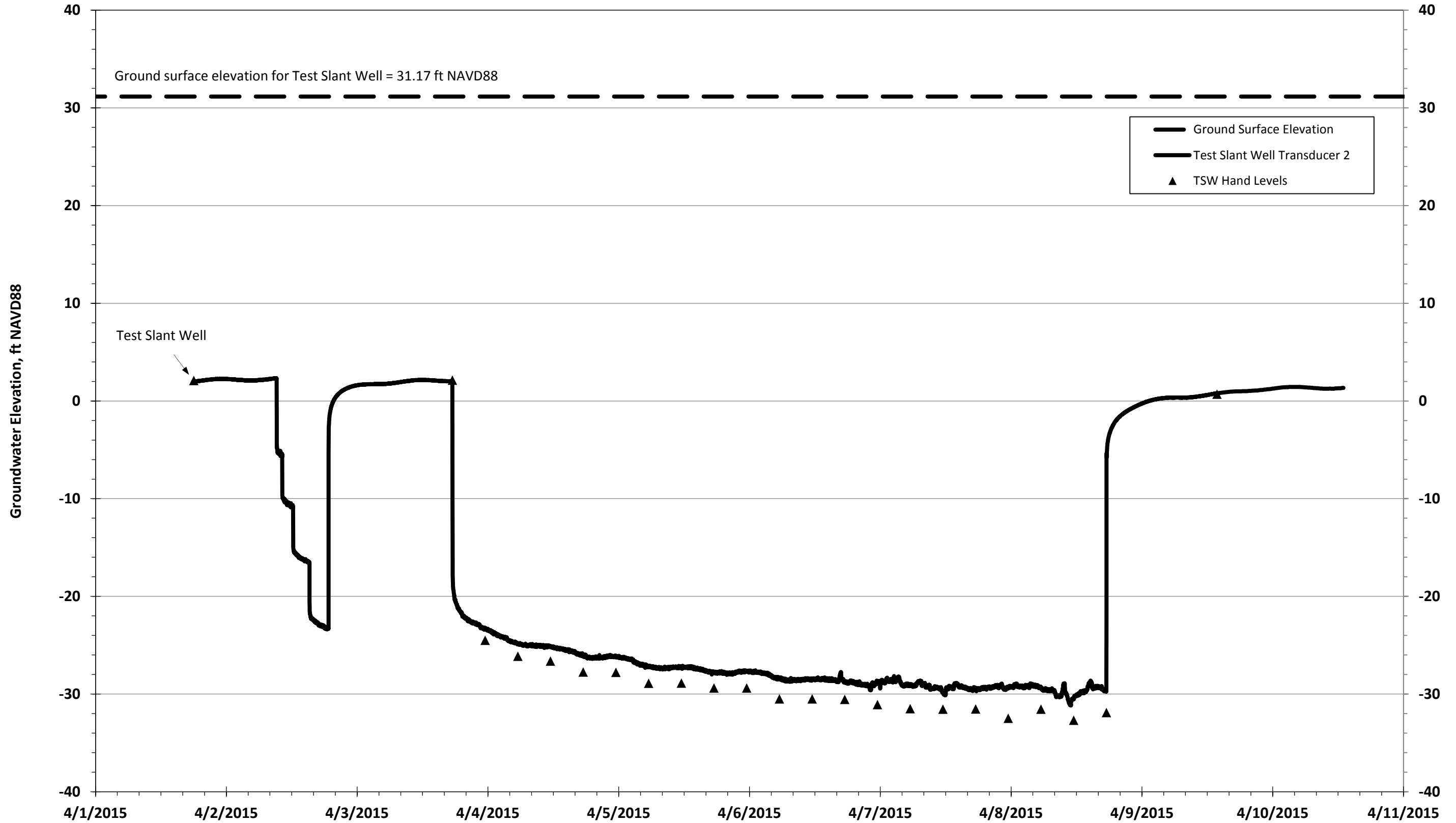


Figure 2-8

Total Dissolved Solids in MPWSP MW-1

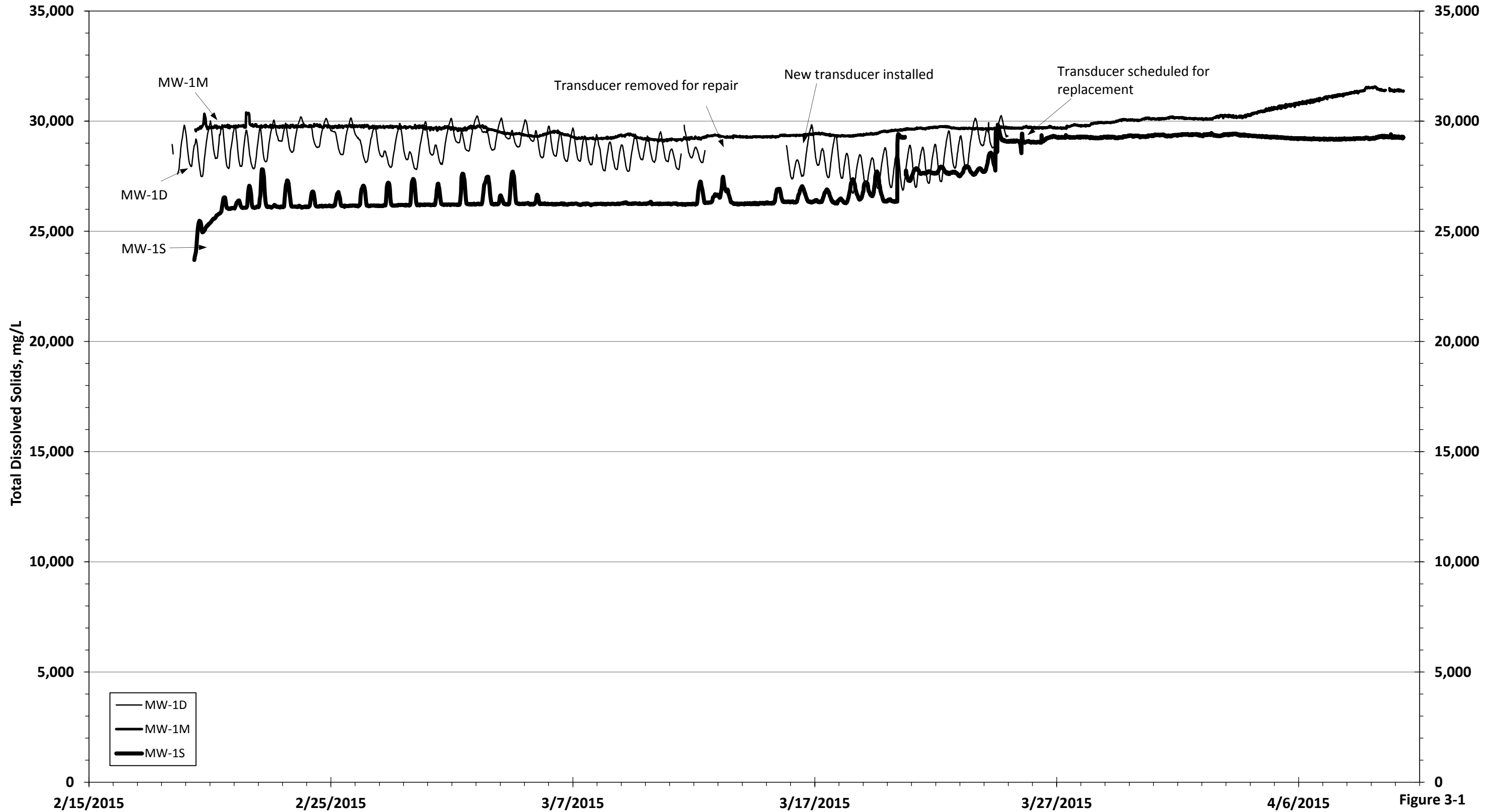


Figure 3-1

Total Dissolved Solids in MPWSP MW-3

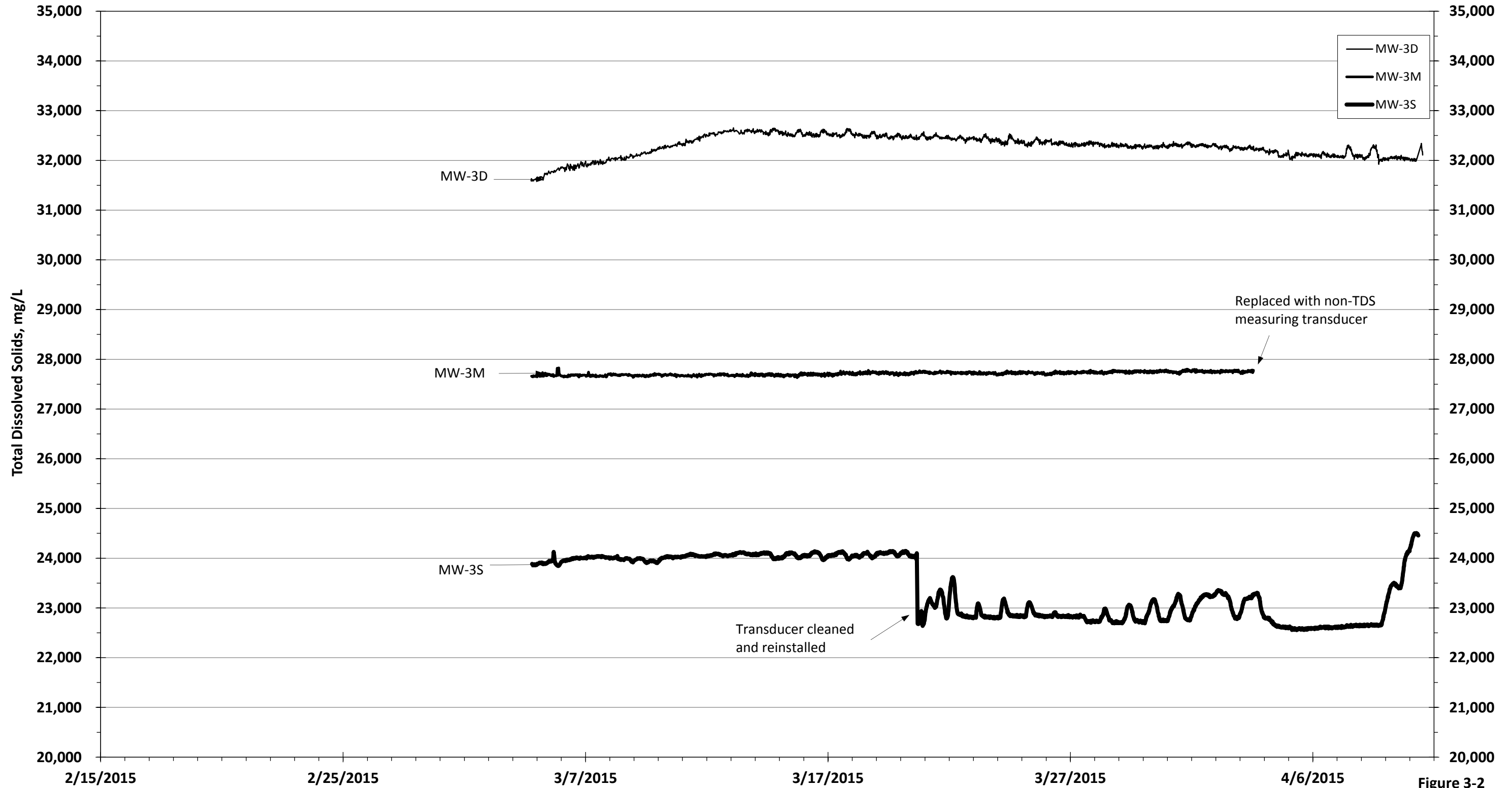


Figure 3-2

Total Dissolved Solids in MPSWP MW-4

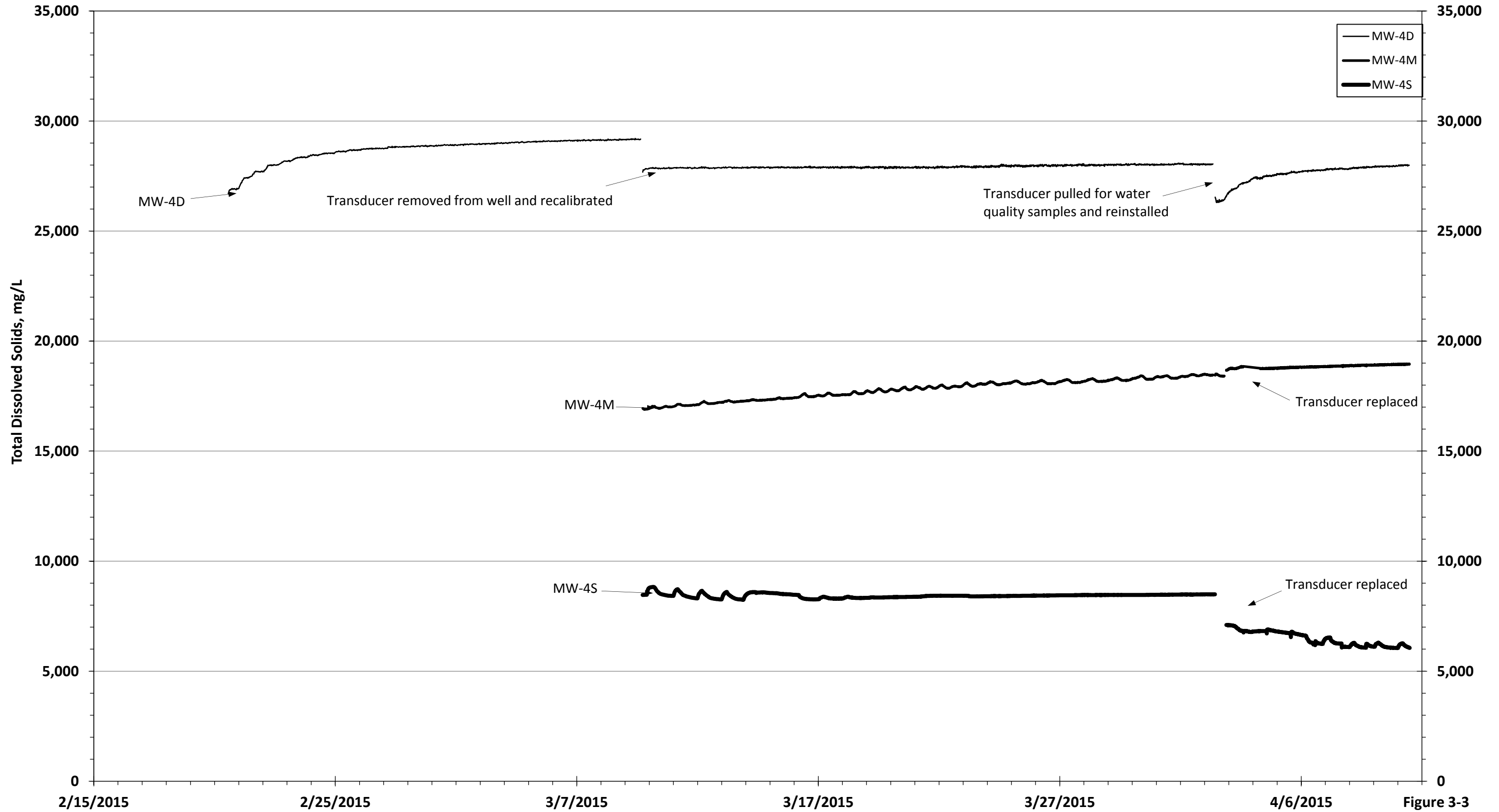
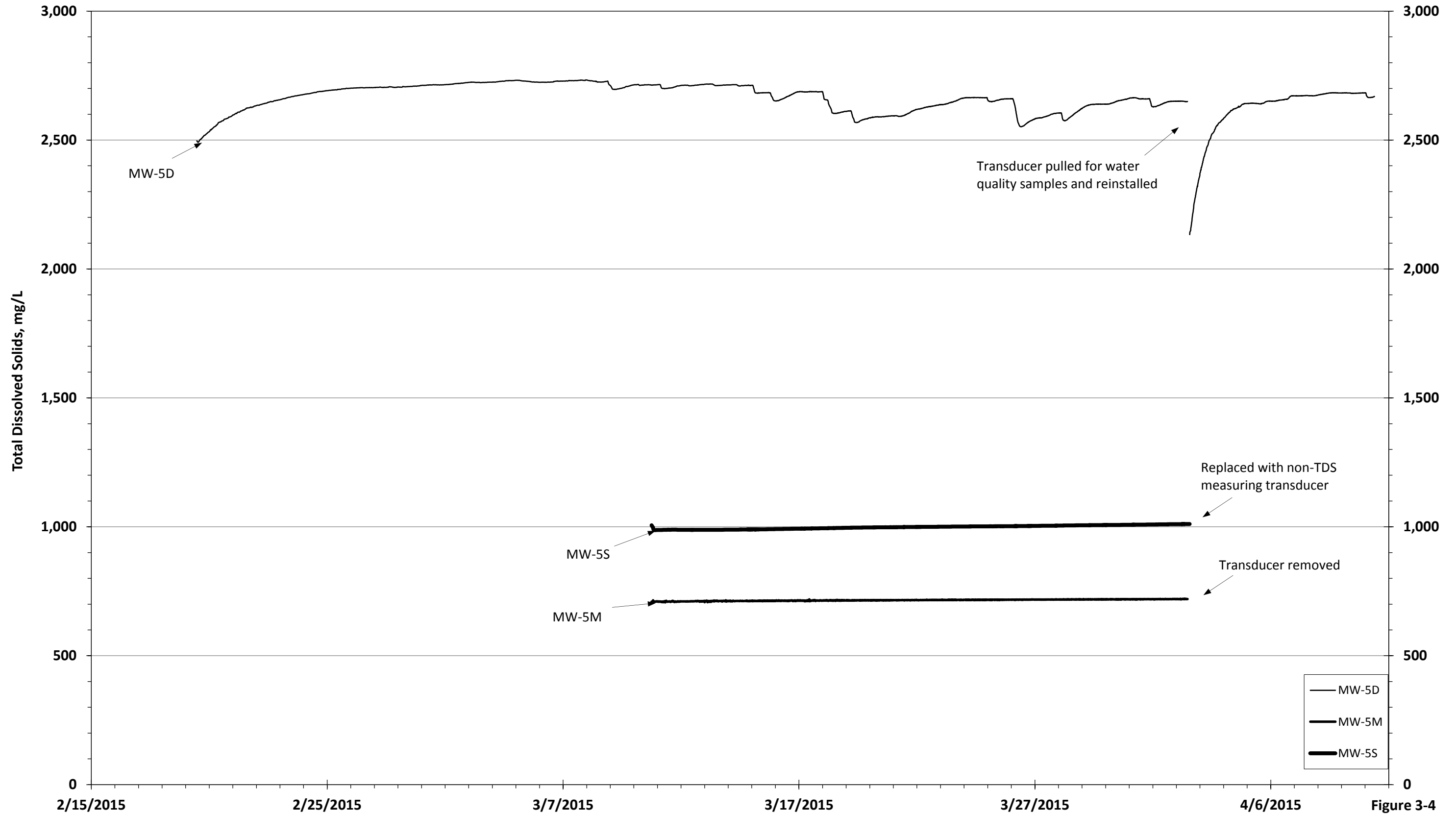


Figure 3-3

Total Dissolved Solids in MPWSP MW-5



Total Dissolved Solids in Monterey Regional Water Pollution Control Agency Wells

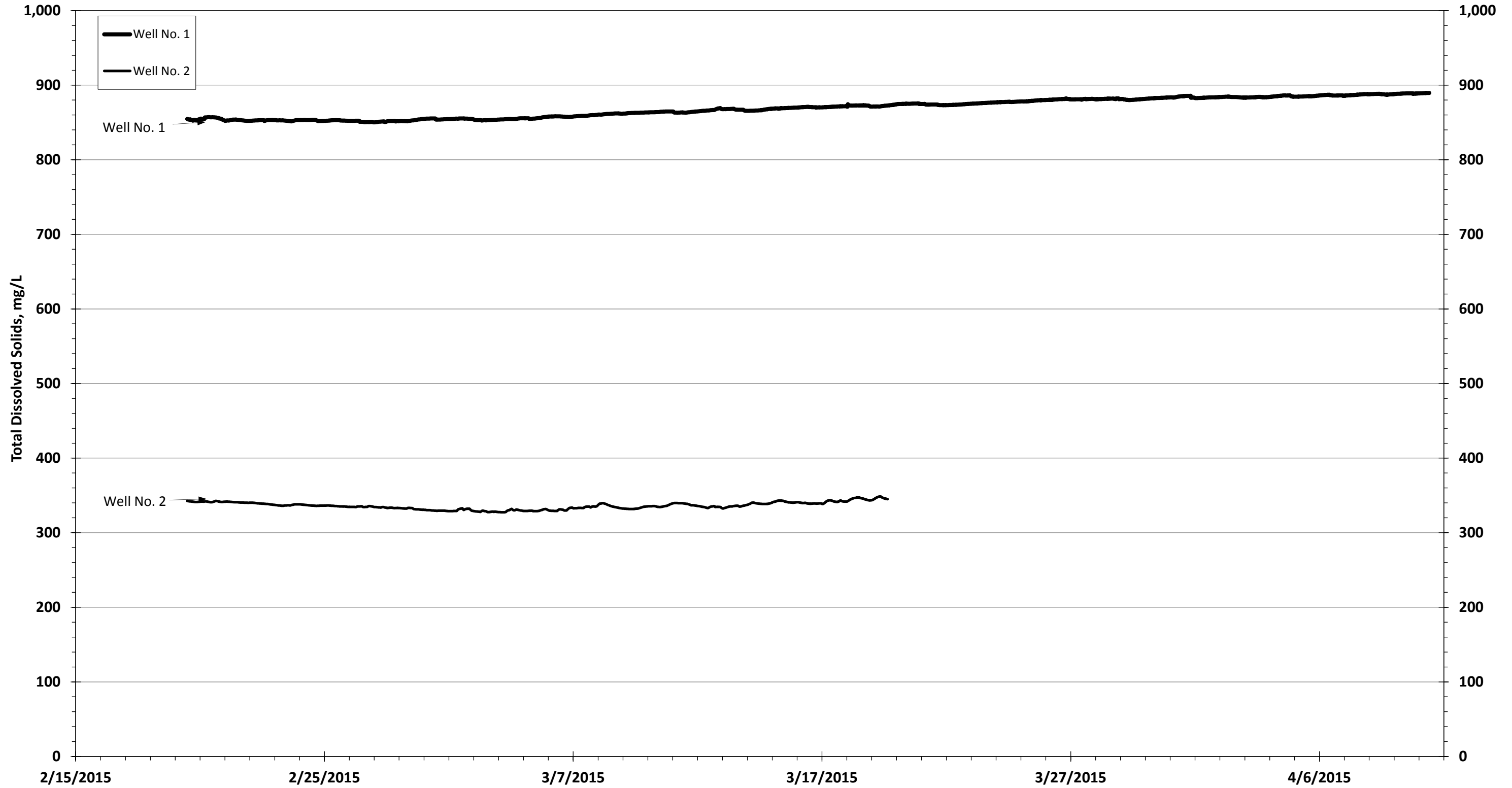


Figure 3-5

Total Dissolved Solids in CEMEX Dredge Pond

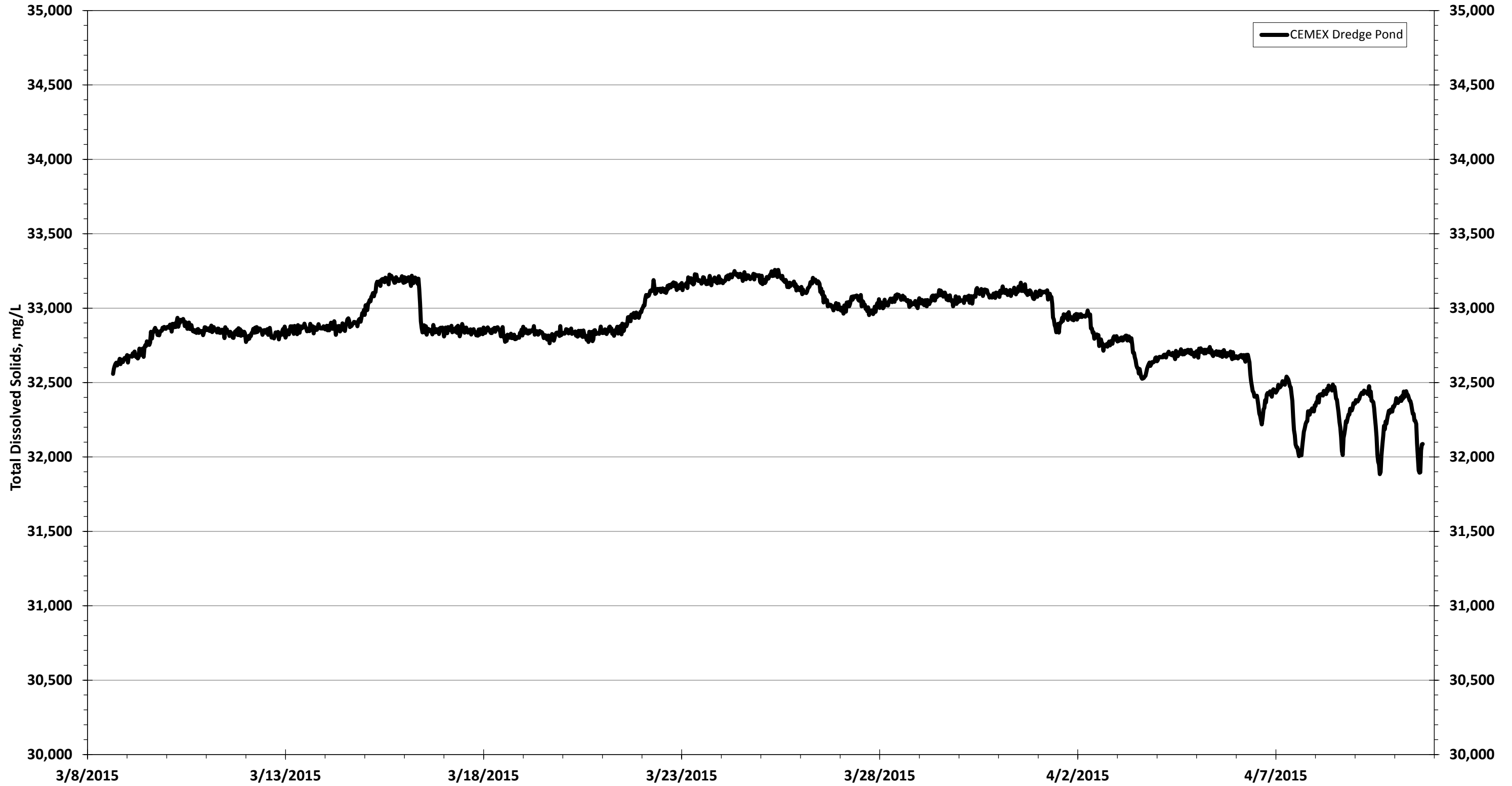


Figure 3-6

Total Dissolved Solids in MPWSP Test Slant Well

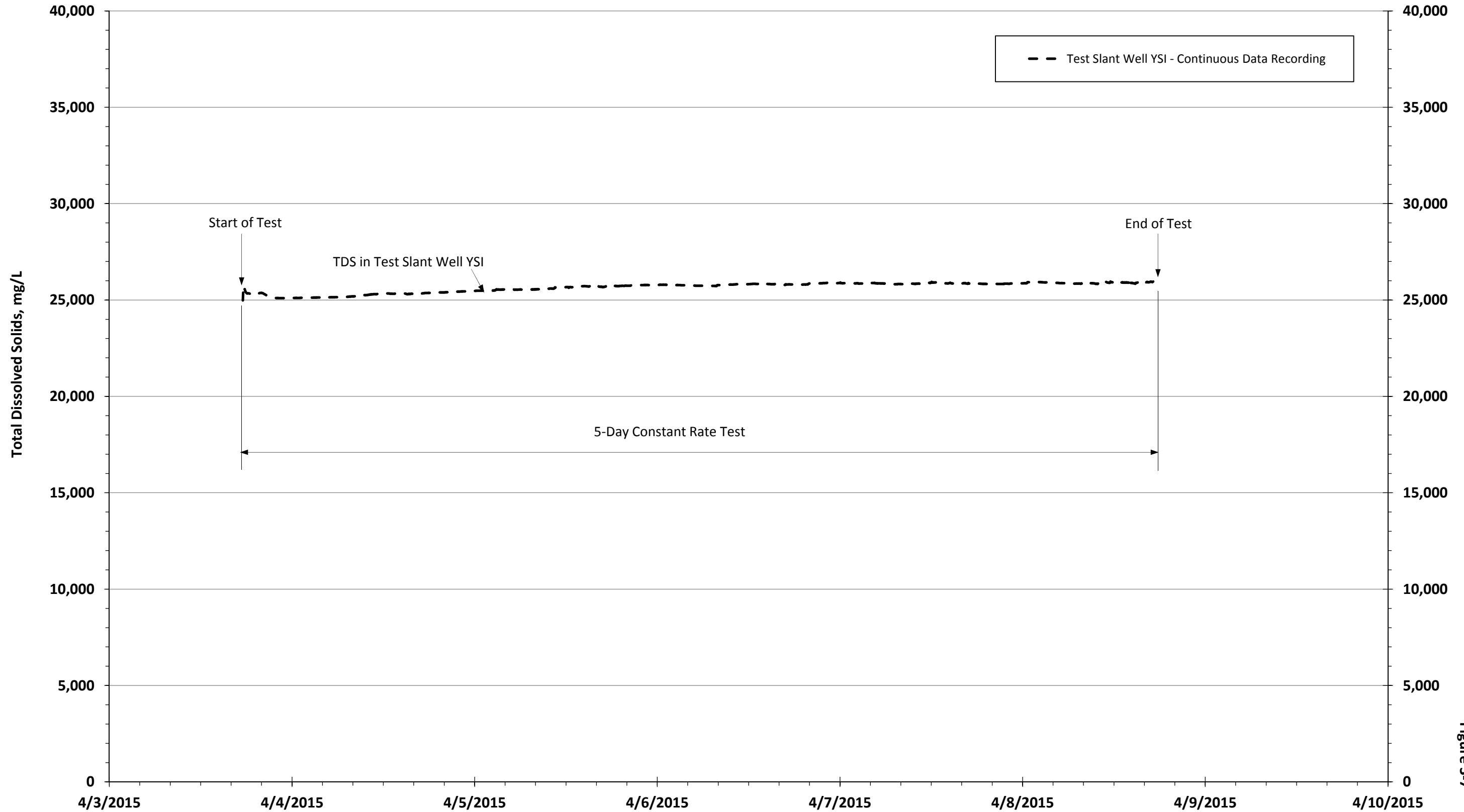


Figure 3-7

Step Drawdown Pumping Test
Test Slant Well

DRAFT

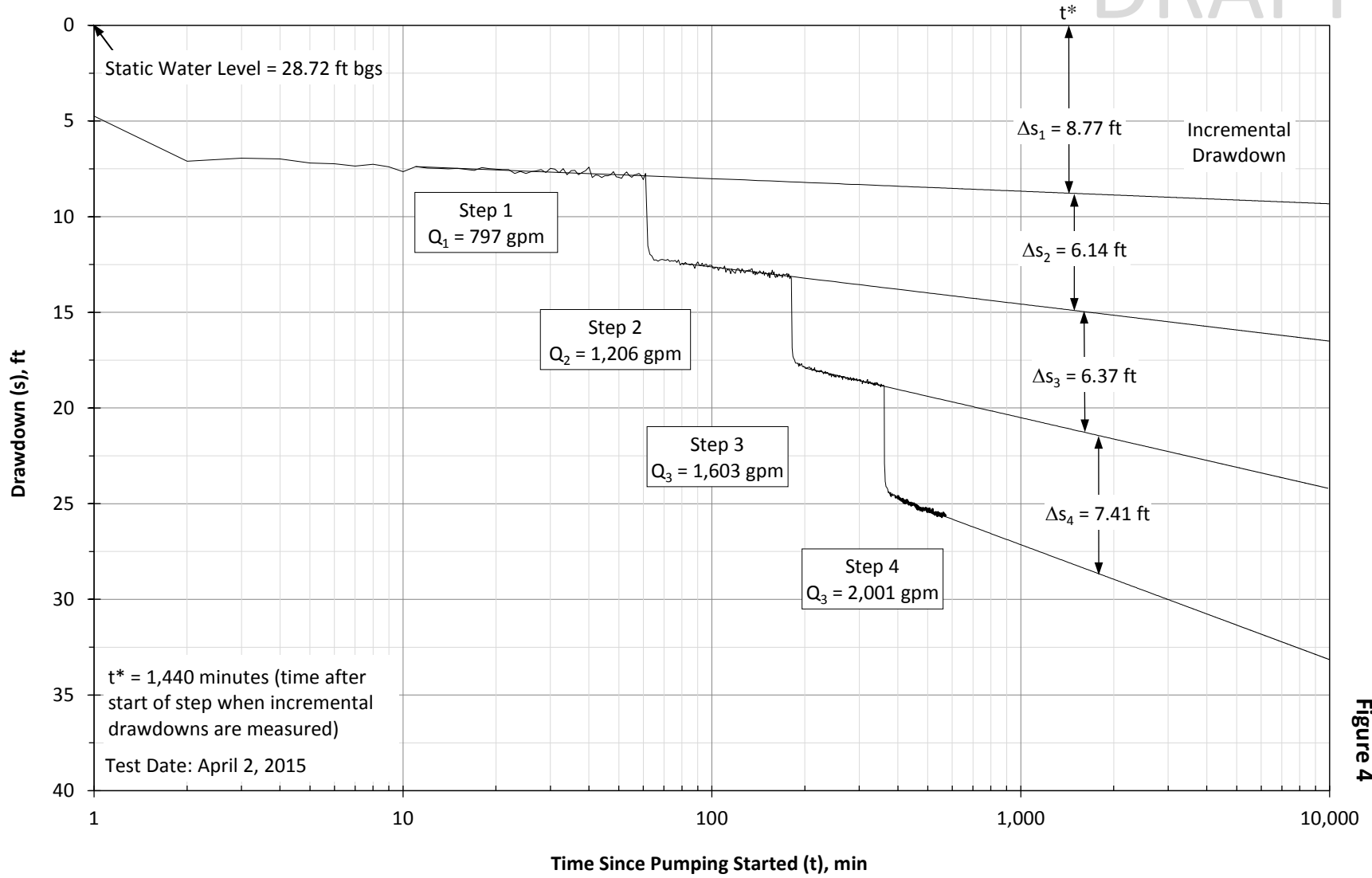


Figure 4

Specific Drawdown Test Slant Well

DRAFT

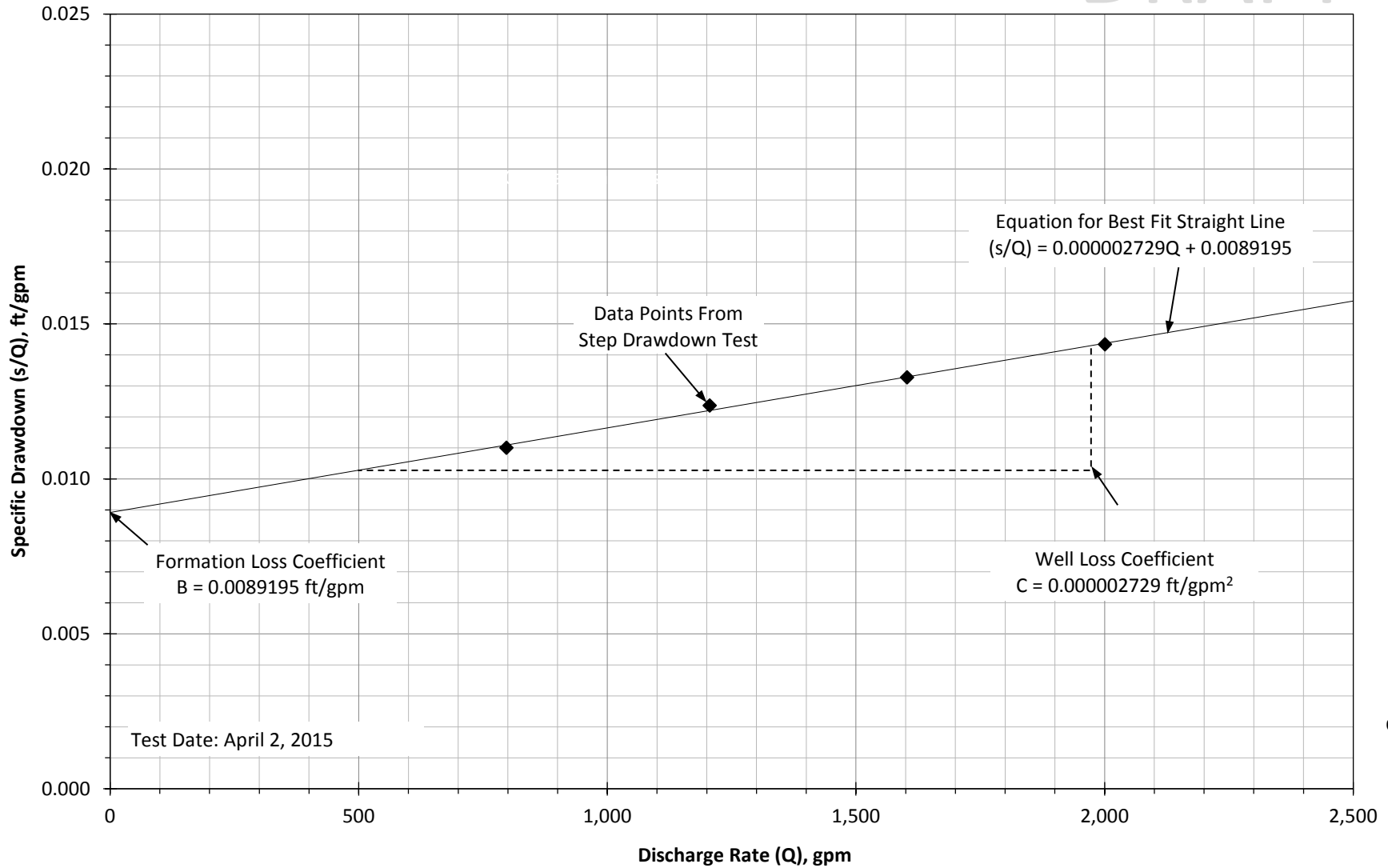
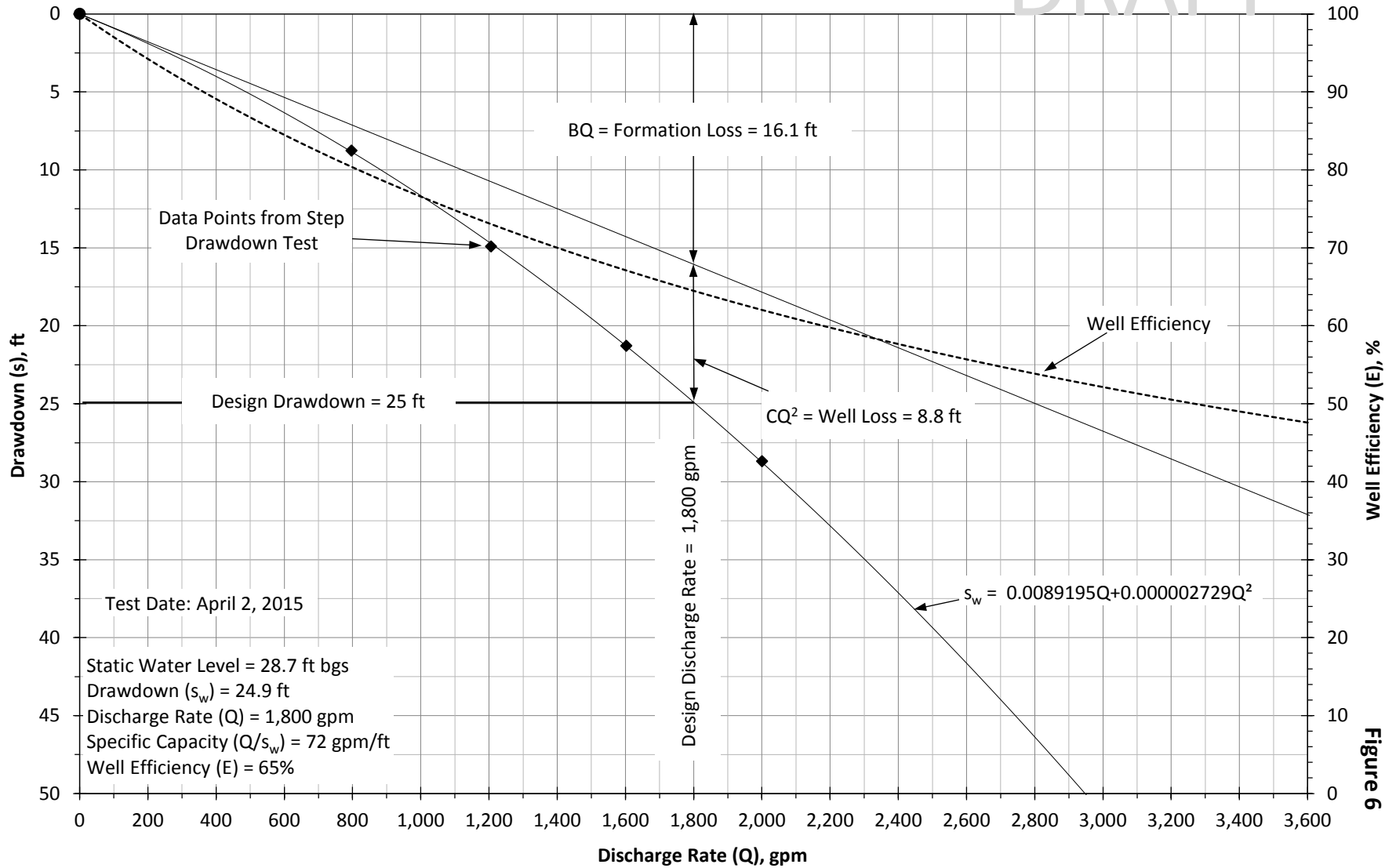


Figure 5

Specific Capacity and Well Efficiency Diagram
Test Slant Well

DRAFT



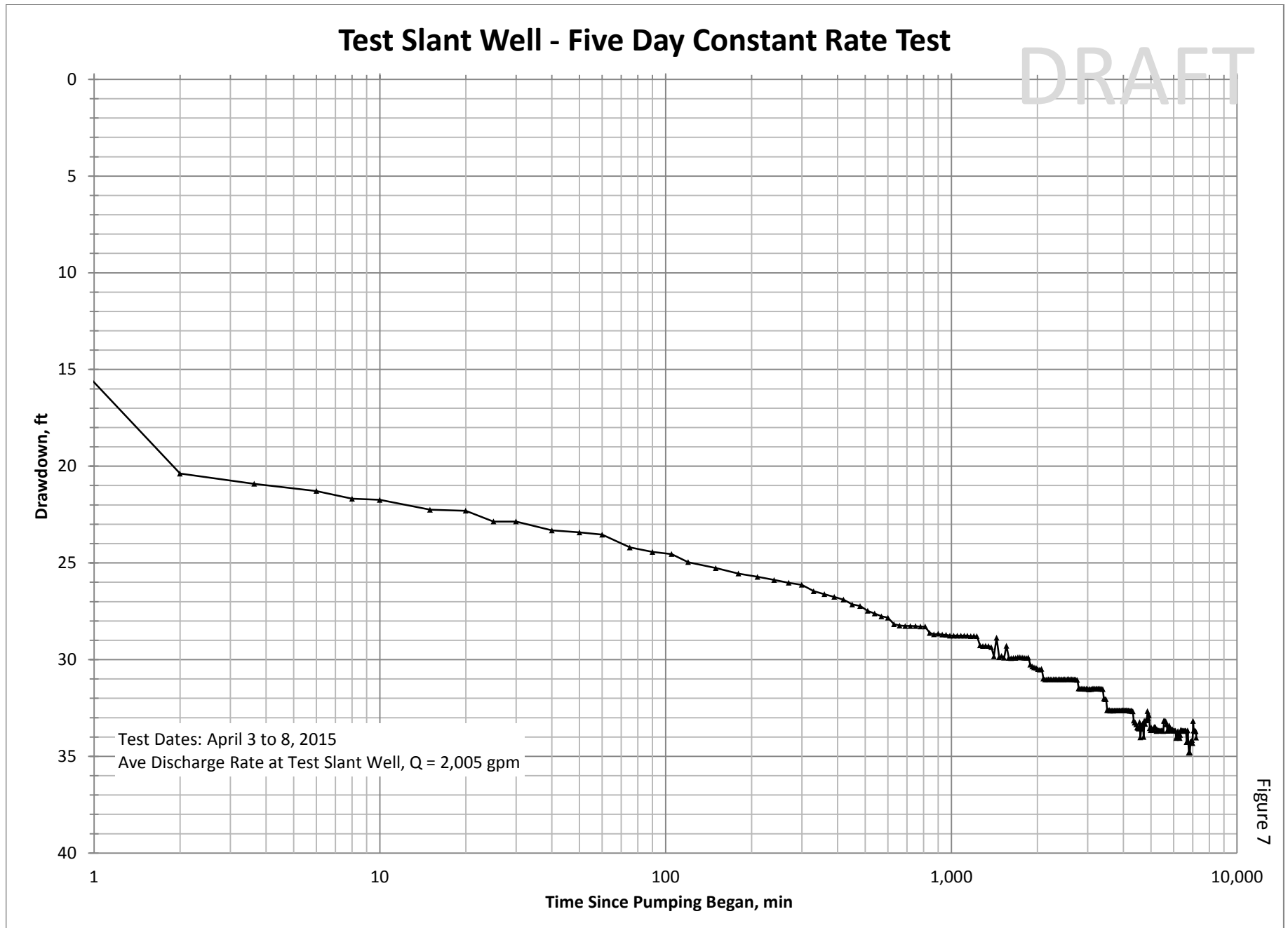


Figure 7

Test Slant Well - MPWSP

Time-Drawdown Analysis
Pumping Well: Test Slant Well
Observation Wells: MW-1S & 1M

DRAFT

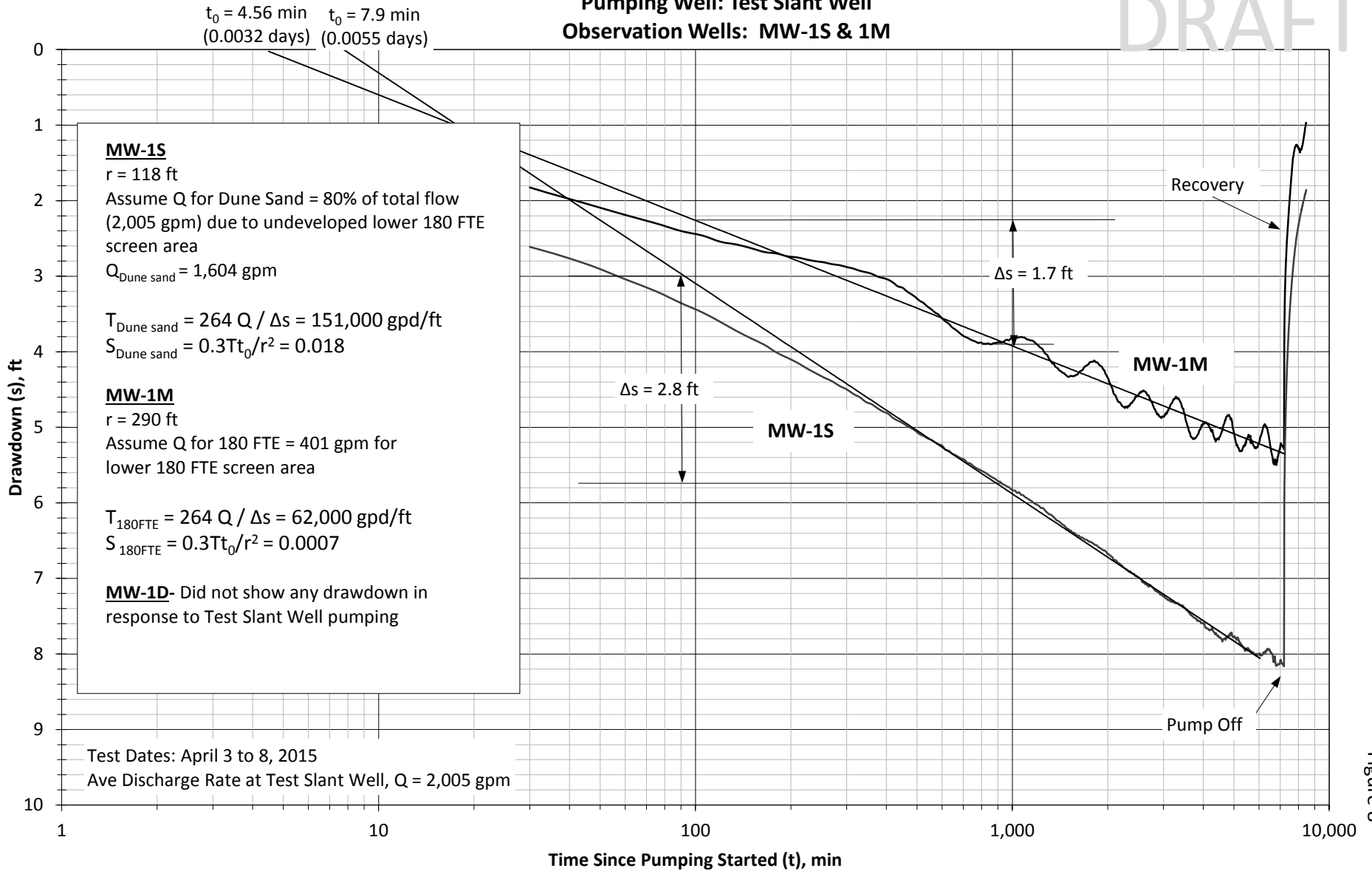


Figure 8

TABLES



Table 1: Well Information Table

| State Plane Coordinates | | | | | | | | | | | | |
|-------------------------|---------|--------------------------------|--------------|--------------|---------------------------|----------------------------|--|--|---|--|-----------------|------------------------|
| Well Name | Cluster | Reference Point (RP) | Northing | Easting | Elevation ** ft NAVD88 | RP Height (ft above GS) | Distance of RP from Slant Well Head (ft) | Top of Screen Interval (ft below GS) | Bottom of Screen Interval (ft below GS) | Transducer Installed Depth (ft below RP) | Logging Started | Data Collected |
| MW-1S | MW-1 | Top of ABS Transducer Mount | 2,154,745.35 | 5,739,355.82 | 30.19 | 2.33 | 218 | 55 | 95 | 75 | 19-Feb-15 | Level, Conductivity |
| MW-1M | MW-1 | Top of ABS Transducer Mount | 2,154,751.93 | 5,739,347.94 | 29.86 | 2.48 | 235 | 115 | 225 | 182 | 19-Feb-15 | Level, Conductivity |
| MW-1D | MW-1 | Top of ABS Transducer Mount | 2,154,753.60 | 5,739,337.98 | 29.39 | 2.36 | 255 | 277 | 327 | 308 | 19-Feb-15 | Level, Conductivity |
| MW-3S | MW-3 | Top of ABS Transducer Mount | 2,154,599.85 | 5,739,977.02 | 37.16 | 2.66 | 418 | 50 | 90 | 76 | 4-Mar-15 | Level, Conductivity |
| MW-3M | MW-3 | Top of ABS Transducer Mount | 2,154,592.96 | 5,739,988.54 | 37.35 | 2.73 | 420 | 105 | 215 | 177 | 4-Mar-15 | Level, Conductivity |
| MW-3D | MW-3 | Top of ABS Transducer Mount | 2,154,589.81 | 5,739,998.68 | 36.93 | 2.74 | 445 | 280 | 330 | 312 | 4-Mar-15 | Level, Conductivity |
| MW-4S | MW-4 | Top of ABS Transducer Mount | 2,154,170.90 | 5,741,427.62 | 41.96 | 2.26 | 1,919 | 50 | 90 | 75 | 9-Mar-15 | Level, Conductivity |
| MW-4M | MW-4 | Top of ABS Transducer Mount | 2,154,172.79 | 5,741,416.78 | 41.99 | 2.15 | 1,909 | 100 | 230 | 181 | 9-Mar-15 | Level, Conductivity |
| MW-4D | MW-4 | Top of ABS Transducer Mount | 2,154,174.30 | 5,741,406.08 | 41.95 | 2.15 | 1,898 | 280 | 330 | 317 | 20-Feb-15 | Level, Conductivity |
| MW-5S | MW-5 | Top of ABS Transducer Mount | 2,156,239.19 | 5,748,566.86 | 80.06 | 2.01 | 9,110 | 50 | 90 | 65 | 10-Mar-15 | Level, Conductivity |
| MW-5M | MW-5 | Top of ABS Transducer Mount | 2,156,230.38 | 5,748,564.26 | 80.10 | 1.93 | 9,122 | 100 | 325 | 205 | 10-Mar-15 | Level, Conductivity |
| MW-5D | MW-5 | Top of ABS Transducer Mount | 2,156,220.77 | 5,748,560.95 | 80.06 | 1.78 | 9,094 | 380 | 430 | 415 | 19-Feb-15 | Level, Conductivity |
| Well No. 1**** | MRWPCA | Well Cover | 2,151,622.14 | 5,750,015.59 | 80.06 | 1.6 | 10,877 | 260 | 340 | 299 | 19-Feb-15 | Level, Conductivity |
| Well No. 2**** | MRWPCA | Well Cover | 2,151,550.18 | 5,749,987.41 | 99.70 | 1.65 | 10,874 | 260 | 340 | 319 | 19-Feb-15 | Level, Conductivity |
| CEMEX Dredge Pond | CEMEX | Top of ABS Transducer Mount | 2,155,912.41 | 5,739,497.26 | 14.14 | 8.92* | 1,090 | | | | 8-Mar-15 | Level, Conductivity |
| Test Slant Well | CEMEX | near ground surface | 2,154,702.56 | 5,739,561.92 | 30.86 | 0 | 0 | 46*** | 231*** | | | |
| CEMEX Dredge Pond | CEMEX | Top of ABS Transducer Mount | 2,155,912.41 | 5,739,497.26 | 14.14 | 8.92* | 1,090 | | | | 8-Mar-15 | Level, Conductivity |
| CEMEX North Well**** | CEMEX | | 5,741,024.65 | 2,154,283.80 | 21.03 | 0.25 | 1,512 | ? | ? | 180 | 1-Apr-15 | Level, Conductivity |
| CEMEX South Well**** | CEMEX | | 5,740,998.57 | 2,154,213.90 | 16.13 | 0.25 | 1,510 | ? | ? | 180 | 1-Apr-15 | Level, Conductivity |

* RP height above pond water level 5.22 ft NAVD88 (8-11 am 26-Mar-15)

**Survey Performed: March 26, 2015
 Horizontal Datum: NAD83 State Plane Zone 4
 Vertical Datum: NAVD88

*** Top of 18 in. screen = 140 ft x Sin(19) = 46 ft TVD, Bottom of 14 in. screen = 710 x Sin(19) = 231 ft TVD

**** Estimated - not surveyed

Cal Am / RBF
 Baseline Water and Total Dissolved Solids Levels
 Monterey Peninsula Water Supply Project Area

Table 2

Summary of Laboratory Water Quality Results in Monitoring Wells

| Constituent ¹ | Units | MW-1D | | MW-1M | | MW-1S | | MW-3D | | MW-3M | | MW-3S | | MW-4D | | MW-4M | | MW-4S | | MW-5D | | MW-5M | | Test Slant Well | | | | |
|-------------------------------|-------|-----------|----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|----------|---------------------------|----------|-----------|-----------|----------|
| | | 277 - 327 | | 115 - 225 | | 55 - 95 | | 285 - 330 | | 105 - 215 | | 50 - 90 | | 280 - 330 | | 100 - 230 | | 50 - 90 | | 380 - 430 | | 100 - 325 | | 140 - 320, 400 - 710 (MD) | | | | |
| | | 14-Feb-15 | 9-Apr-15 | 14-Feb-15 | 9-Apr-15 | 13-Feb-15 | 9-Apr-15 | 21-Feb-15 | 10-Apr-15 | 24-Feb-15 | 10-Apr-15 | 25-Feb-15 | 10-Apr-15 | 19-Feb-15 | 2-Apr-15 | 6-Mar-15 | 2-Apr-15 | 7-Mar-15 | 2-Apr-15 | 17-Feb-15 | 2-Apr-15 | 3-Mar-15 | 2-Apr-15 | 10-Mar-15 | 2-Apr-15 | 20-Mar-15 | 24-Mar-15 | 8-Apr-15 |
| Sulfate | mg/L | 1,950 | N/A | 2,070 | N/A | 1,840 | N/A | N/A | N/A | N/A | N/A | 1,700 | N/A | N/A | N/A | N/A | N/A | N/A | 58 | 1,700 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Sulfate, Dissolved | mg/L | N/A | 2,148 | N/A | 2,048 | N/A | 2,008 | 2,058 | 2,158 | 1,960 | 1,967 | 1,533 | 1,605 | N/A | 1,796 | 1,184 | 1,205 | 716 | 807 | N/A | 31 | 110 | 67 | 197 | 192 | N/A | 1,840 | |
| Temperature | * C | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| Temperature (Field) | * C | 19.2 | 20.02 | 17.2 | 17.89 | 18.8 | 17.64 | 19.6 | 20.22 | 16.3 | 18.74 | 17.5 | 19.17 | 19.9 | 19.8 | 18.4 | 18.3 | 17.7 | 18.1 | 21.3 | 21.4 | 16.97 | 18.2 | 16.7 | 18.1 | 20.9 | 19.1 | 17.2 |
| Total Diss. Solids | mg/L | 29,100 | 28,700 | 30,900 | 28,300 | 26,600 | 27,500 | 32,600 | 28,600 | 28,500 | 28,300 | 23,400 | 23,300 | 27,500 | 27,600 | 17,900 | 17,500 | 11,900 | 12,800 | 2,616 | 2,437 | 663 | 454 | 1,166 | 1,117 | 25,300 | 24,400 | 25,400 |
| Total Susp. Solids | mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 58 | 1,700 | N/A | N/A | N/A | N/A | N/A | N/A | |
| Turbidity | NTU | 1.8 | 0.15 | 0.1 | 0.1 | 0.1 | 0.15 | 1 | 0.3 | 0.1 | 0.16 | 0.15 | 0.24 | 0.65 | 0.15 | 0.25 | 0.05 | 0.3 | 0.2 | 0.25 | 0.25 | ND | ND | 0.4 | 0.75 | 17 | 1.6 | 0.4 |
| Turbidity (Field) | NTU | 0.65 | 0.69 | 0.41 | 0.35 | 0.28 | 0.43 | 0.38 | 0.87 | 0.42 | 0.21 | 0.96 | 0.55 | 0.76 | 0.53 | 0.71 | 0.84 | 0.52 | 0.17 | 0.71 | 0.87 | 0.47 | 0.45 | 1.31 | 1.26 | 40.3 | 0.66 | 0.74 |
| Volatile Org. Compounds (524) | µg/L | ND | N/A | ND | N/A | ND | N/A | ND | N/A | ND | N/A | RP | N/A | RP | N/A | ND | N/A | RP | N/A | RP | N/A | ND | N/A | RP | N/A | N/A | N/A | ND |
| Zinc, Total | µg/L | ND | ND | ND | ND | 413 | ND | ND | ND | 297 | ND | 312 | ND | ND | ND | 211 | 107 | ND | 108 | 51 | ND | 40 | ND | 43 | ND | N/A | N/A | ND |

Notes:

- *C = Degrees Celsius
- CU = Color Units
- mg/L = Milligrams per Liter
- NTU = Nephelometric Turbidity Units
- µg/L = Picograms per Liter
- TON = Threshold Odor Number
- µg/L = Micograms per Liter
- µmhos/cm = Micromhos per Centimeter
- H = Analyzed outside of hold time
- MPN/100mL = The most probable number (MPN) of coliform or fecal coliform bacteria per 100 milliliter
- ND = NOT DETECTED at or above the Reporting Limit or Practical Quantitation Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
- N/A = No Lab Results available
- RP = Results to be provided

¹ Laboratory water quality reports will be provided in the Test Slant Well and monitoring well completion report.
^{*} Laboratory water quality results pending.

APPENDIX A

Coastal Development Permit # A-3-MRA-14-0050

8-Dec-14



CALIFORNIA COASTAL COMMISSION

45 FREMONT, SUITE 2000
SAN FRANCISCO, CA 94105-2219
VOICE (415) 904-5200
FAX (415) 904-5400
TDD (415) 597-5885

**COASTAL DEVELOPMENT PERMIT**

On November 12, 2014, by a vote of 11-0, the California Coastal Commission granted to California American Water Company (Cal-Am) Coastal Development Permit #A-3-MRA-14-0050 subject to the attached standard and special conditions, for development consisting of:

Construction, operation, and decommissioning of a test slant well at the CEMEX sand mining facility in the City of Marina and beneath Monterey Bay in the County of Monterey.

Issued on behalf of the Coastal Commission on December 8, 2014.

CHARLES LESTER
Executive Director

A handwritten signature in cursive script, appearing to read "Alison J. Dettmer".

By: ALISON J. DETTMER
Deputy Director
Energy, Ocean Resources, and Federal Consistency Division

Permit A-3-MRA-14-0050

December 8, 2014

Page 2 of 12

Acknowledgment:

The undersigned Permittee acknowledges receipt of this permit and agrees to abide by all terms and conditions thereof.

The undersigned Permittee acknowledges that Government Code Section 818.4, which states in pertinent part, that: "A public entity is not liable for injury caused by the issuance... of any permit..." applies to the issuance of this permit.

IMPORTANT: THIS PERMIT IS NOT VALID UNLESS AND UNTIL A COPY OF THE PERMIT WITH THE SIGNED ACKNOWLEDGMENT HAS BEEN RETURNED TO THE COMMISSION OFFICE (14 Cal. Admin. Code Section 13158(a).)

12/8/14
Date


Signature of Permittee or Representative

STANDARD CONDITIONS

This permit is subject to the following standard conditions:

1. **Notice of Receipt and Acknowledgment.** The permit is not valid and development shall not commence until a copy of the permit, signed by the Permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
2. **Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
3. **Interpretation.** Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.
4. **Assignment.** The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
5. **Terms and Conditions Run with the Land.** These terms and conditions shall be perpetual, and it is the intention of the Commission and the Permittee to bind all future owners and possessors of the subject property to the terms and conditions.

SPECIAL CONDITIONS

This permit is subject to the following special conditions:

1. **Proof of Legal Interest and Other Approvals.** The Permittee shall provide to the Executive Director a copy of each of the following approvals or documentation from the relevant agency that such approval is not required:
 - a. PRIOR TO PERMIT ISSUANCE, proof of legal interest in the project site.
 - b. PRIOR TO CONNECTING TO THE OUTFALL, the negotiated agreement or memorandum of understanding between the applicant and the Monterey Regional Water Pollution Control Agency (“MRWPCA”) regarding connection and use of the ocean outfall for discharge of water produced from the test well.
 - c. PRIOR TO ISSUANCE OF CDP 9-14-1735, a lease from the State Lands Commission.

The Permittee shall inform the Executive Director of any changes to the project required by, or resulting from, these permits or approvals. Such changes shall not be incorporated into the project until the Permittee obtains a Commission amendment to this permit, unless the Executive Director determines that no amendment is legally required.

2. **Liability for Costs and Attorneys Fees.** The Permittee shall reimburse the Coastal Commission in full for all Coastal Commission costs and attorneys fees – including (a) those charged by the Office of the Attorney General; and (b) any court costs and attorneys fees that the Coastal Commission may be required by a court to pay – that the Coastal Commission incurs in connection with the defense of any action brought by a party other than the Permittee against the Coastal Commission, its officers, employees, agents, successors, and assigns challenging the approval or issuance of this permit, the interpretation and/or enforcement of permit conditions, or any other matter related to this permit. The Coastal Commission retains complete authority to conduct and direct the defense of any such action against the Coastal Commission.

3. **Project Construction.** The Permittee shall conduct project construction as described and conditioned herein, including the following measures:
 - a. Project-related construction shall occur only in areas as described in the permit application.
 - b. Project-related construction, including site preparation, equipment staging, and installation or removal of equipment or wells, occurring between February 28 and October 1 of any year is subject to the timing and species protection requirements of Special Condition 14.
 - c. Construction equipment and materials, including project-related debris, shall be placed or stored where it cannot enter a storm drain or coastal waters. The Permittee shall ensure that all construction personnel keep all food-related trash items in sealed containers and remove them daily to discourage the concentration of potential predators in snowy plover habitat. All trash and construction debris shall be removed from work areas and properly disposed of at the end of each work day at an approved upland location. All vegetation removed from the construction site shall be taken to a certified landfill to prevent the spread of invasive species.
 - d. To reduce construction noise, noise attenuation devices (e.g., noise blankets, sound baffles, etc.) shall be installed around all stationary construction equipment, including drill rigs.
 - e. All project vehicles shall maintain speeds of 10 miles per hour or less when at the project site. Prior to moving any vehicle, project personnel shall visually inspect for special-status species under and around the vehicle, and shall notify the on-site biologist should any be detected.
 - f. To avoid predation of special-status species, wire excluders or similar anti-perching devices shall be installed and maintained on the top of all aboveground structures (e.g., electrical panel) to deter perching by avian predators.

No changes to these requirements shall occur without a Commission amendment to this permit unless the Executive Director determines that no amendment is legally required.

4. **Protection of Water Quality.** PRIOR TO COMMENCEMENT OF CONSTRUCTION, the Permittee shall submit an erosion control plan for Executive Director review and approval. The Plan shall include a schedule for the completion of erosion- and sediment-control structures, which ensures that all such erosion-control structures are in place by mid-November of the year that construction begins and maintained thereafter. The plan

shall identify standard Best Management Practices to be implemented to address both temporary and permanent measures to control erosion and reduce sedimentation. Site monitoring by the applicant's erosion-control specialist shall be undertaken and a follow-up report shall be prepared that documents the progress and/or completion of required erosion-control measures both during and after construction and decommissioning activities. No synthetic plastic mesh products shall be used in any erosion control materials. All plans shall show that sedimentation and erosion control measures are installed prior to any other ground disturbing work.

5. Hazardous Material Spill Prevention and Response.

(a) PRIOR TO COMMENCEMENT OF CONSTRUCTION, the Permittee shall submit for Executive Director review and approval a project-specific Hazardous Materials Spill Prevention and Response Plan that includes:

- an estimate of a reasonable worst case release of fuel or other hazardous materials onto the project site or into adjacent sensitive habitat areas or coastal waters resulting from project operations;
- all identified locations within the project footprint of known or suspected buried hazardous materials, including current or former underground storage tanks, septic systems, refuse disposal areas, and the like;
- specific protocols for monitoring and minimizing the use of fuel and hazardous materials during project operations, including Best Management Practices that will be implemented to ensure minimal impacts to the environment;
- a detailed response and clean-up plan in the event of a spill or accidental discharge or release of fuel or hazardous materials;
- a list of all spill prevention and response equipment that will be maintained on-site;
- the designation of the onsite person who will have responsibility for implementing the plan;
- a telephone contact list of all regulatory and public trustee agencies, including Coastal Commission staff, having authority over the development and/or the project site and its resources to be notified in the event of a spill or material release; and,
- a list of all fuels and hazardous materials that will be used or might be used during the proposed project, together with Material Safety Data Sheets for each of these materials.

The Permittee shall implement the Plan as approved by the Executive Director. The Permittee shall also ensure that all onsite project personnel participate in a training program that describes the above-referenced Plan, identifies the Plan's requirements for implementing Best Management Practices to prevent spills or releases, specifies the location of all clean-up materials and equipment available on site, and specifies the measures that are to be taken should a spill or release occur.

- (b) In the event that a spill or accidental discharge of fuel or hazardous materials occurs during project construction or operations, all non-essential project construction and/or operation shall cease and the Permittee shall implement spill response measures of the approved Plan, including notification of Commission staff. Project construction and/or operation shall not start again until authorized by Commission staff.
- (c) If project construction or operations result in a spill or accidental discharge that causes adverse effects to coastal water quality, ESHA, or other coastal resources, the Permittee shall submit an application to amend this permit, unless the Executive Director determines no amendment is required. The application shall identify proposed measures to prevent future spills or releases and shall include a proposed restoration plan for any coastal resources adversely affected by the spill or release.

The Permittee shall implement the Plan as approved by the Executive Director.

6. **Monitoring and Removal of Temporary Structures, Well Head Burial & Well Closure/Destruction.** The Permittee shall monitor beach erosion at least once per week over the duration of the project to ensure the slant well and monitoring wells remain covered. If the wellheads, linings, casings, or other project components become exposed due to erosion, shifting sand or other factors, the Permittee shall immediately take action to reduce any danger to the public or to marine life and shall submit within one week of detecting the exposed components a complete application for a new or amended permit to remedy the exposure.

Upon project completion, and no later than February 28, 2018, the Permittee shall cut off, cap, and bury the slant well head at least 40 feet below the ground surface, and shall completely remove all other temporary facilities approved by this coastal development permit. To ensure timely removal, the Permittee shall post the bond or other surety device as required by **Special Condition 17** to ensure future removal measures would be appropriately supported and timed to prevent any future resurfacing of the well casing or other project components.

7. **Assumption of Risk, Waiver of Liability and Indemnity.** By acceptance of this permit, the Permittee acknowledges and agrees:
- a. that the site may be subject to hazards from coastal erosion, storm conditions, wave uprush, and tsunami runup;
 - b. to assume the risks to the Permittee and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development;
 - c. to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; and
 - d. to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.

8. **No Future Shoreline Protective Device.** By acceptance of this permit, the Permittee agrees, on behalf of itself and all other successors and assigns, that no shoreline protective device(s) shall ever be constructed to protect the development approved pursuant to this permit, including the wells, supporting infrastructure, and any future improvements, in the event that the development is threatened with damage or destruction from waves, erosion, storm conditions or other natural hazards in the future. By acceptance of this permit, the Permittee hereby waives, on behalf of itself and all successors and assigns, any rights to construct such devices that may exist under Public Resources Code Section 30235.

By acceptance of this permit, the Permittee further agrees, on behalf of itself and all successors and assigns, that the Permittee shall remove the development authorized by this permit, including the wells, supporting infrastructure, and any future improvements, if any government agency with the requisite jurisdiction and authority has ordered, and the Executive Director has concurred, that the development is not to be used due to any of the hazards identified in **Special Condition 7**. In the event that portions of the development fall to the beach before they are removed, the Permittee shall remove all recoverable debris associated with the development from the beach and ocean and lawfully dispose of the material in an approved disposal site. Such removal shall require a coastal development permit.

9. **Geology/Hazards.** The project shall be designed to meet or exceed all applicable requirements of the California Building Code. Project design and construction shall meet or exceed all applicable feasible conclusions and recommendations in the *Geotechnical Investigation for the California American Water Temporary Slant Test Well Project, Marina, Monterey County, California*, dated April 3, 2014 (GeoSoils 2014). Project components shall be sited to avoid areas identified in the coastal erosion memorandum prepared by ESA-PWA (March 2014) as subject to coastal erosion during the duration of the project.
10. **Visual Resources.** PRIOR TO PERMIT ISSUANCE, the Permittee shall submit for Executive Director review and approval a Lighting Plan prepared by a qualified engineer that includes the following:
- a. Identifies all lighting and associated infrastructure proposed for use during the test well project, such as towers, poles, electrical lines, etc. The Lighting Plan shall identify the locations, heights, dimensions, and intensity of the lighting and associated lighting infrastructure.
 - b. Evaluates the effects of project lighting and associated infrastructure on wildlife in the project area and describes proposed measures to avoid or minimize any adverse effects. These measures may include shielding project lighting from off-site locations, directing lighting downward, using the minimum amount of lighting necessary to ensure project safety, and other similar measures.
 - c. Affirms that all lighting structures and fixtures installed for use during the project and visible from public areas, including shoreline areas of Monterey Bay, will be painted or finished in neutral tones that minimize their visibility from those public areas.
- The Permittee shall implement the Lighting Plan as approved by the Executive Director.

11. Protection of Nearby Wells. PRIOR TO STARTING PROJECT-RELATED PUMP TESTS, the Permittee shall install monitoring devices a minimum of four wells on the CEMEX site, within 2000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells and shall provide to the Executive Director the baseline water and Total Dissolved Solids (“TDS”) levels in those wells prior to commencement of pumping from the test well. The Hydrogeology Working Group shall establish the baseline water and TDS levels for the monitoring wells. During the project pump tests, the Permittee shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request. If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pump test and inform the Executive Director. The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and it will submit its determination to the Executive Director. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing to resume. If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit.

12. Protection of Biological Resources – Biological Monitor(s). PRIOR TO COMMENCEMENT OF CONSTRUCTION, the Permittee shall retain one or more qualified biologists approved by the Executive Director to ensure compliance with all relevant mitigation measures and Special Conditions. The approved biologist(s) shall conduct the required preconstruction surveys, implement ongoing monitoring and inspections, keep required records, and notify Commission staff and staff of other agencies as necessary regarding project conformity to these measures and Special Conditions.

The approved biologist(s) shall be present during daylight hours for all project construction and decommissioning activities and on a periodic basis when the biologist determines operational activities may affect areas previously undisturbed by project activities. The biologist(s) shall monitor construction equipment access and shall have authority to halt work activities, if the potential for impacts to special-status species or habitat is identified, until the issue can be resolved. The qualified biologist(s) shall immediately report any observations of significant adverse effects on special-status species to the Executive Director.

- 13. Protection of Biological Resources – Training of On-site Personnel.** Prior to starting construction and decommissioning activities, the approved biologist(s) shall conduct an environmental awareness training for all construction personnel that are on-site during activities. The training shall include, at a minimum, the following:
- Descriptions of the special-status species with potential to occur in the project area;
 - Habitat requirements and life histories of those species as they relate to the project;
 - Avoidance, minimization, and mitigation measures that will be implemented to avoid impacts to the species and their habitats;
 - Identification of the regulatory agencies and regulations that manage their protection; and,
 - Consequences that may result from unauthorized impacts or take of special-status species and their habitats.

The training shall include distribution of an environmental training brochure, and collection of signatures from all attendees acknowledging their participation in the training. Subsequent trainings shall be provided by the qualified biologist as needed for additional construction or operations workers through the life of the project.

14. Protection of Biological Resources – Pre-Construction and Pre-Disturbance

Surveys. The approved biologist(s) shall conduct pre-construction surveys for special-status species as described below:

- a. No more than 14 days before the start of onsite activities or any activities planned for areas previously undisturbed by project activities, the biologist(s) shall conduct a field evaluation of the nature and extent of Western snowy plover activity in the project area and shall identify measures needed to ensure construction activities minimize potential effects to the species. Those measures shall, at a minimum, meet the standards and requirements of the mitigation measures included in Exhibit 5 as well as those included in subsection (d) of this special condition. Those measures shall also be submitted for Executive Director review and approval at least five days before the start of construction activities. The Permittee shall implement the measures as approved by the Executive Director.
- b. Prior to construction or activities planned for areas previously undisturbed by project activities, the approved biologist(s) shall coordinate with construction crews to identify and mark the boundaries of project disturbance, locations of special-status species and suitable habitat, avoidance areas, and access routes. GPS data collected during preconstruction surveys completed in 2012, 2013, and 2014 shall be used to flag the known locations of Monterey spineflower and buckwheat for avoidance during construction. Avoidance buffers shall be established and flagged or fenced as necessary to avoid surface disturbance or vegetation removal. The monitoring biologist shall fit the placement of flags and fencing to minimize impacts to any sensitive resources. At a minimum, the biologist shall direct the placement of highly visible exclusion fencing (snow fence or similar) at the following locations:
 - around sensitive snowy plover habitat areas that do not require regular access;
 - areas along the northern edge of the CEMEX accessway in the vicinity of the settling ponds; and
 - between the work area and any identified occurrence of Monterey spineflower or buckwheat within 10 feet of the existing accessway or work area.

- All delineated areas of temporary fencing shall be shown on grading plans and shall remain in place and functional throughout the duration of construction and decommissioning activities.
- c. The approved biologist(s) shall conduct surveys for Monterey spineflower and buckwheat (host plant for Smith's blue butterfly) within all project disturbance areas and within 20 feet of project boundaries during the blooming period for the spineflower (April-June) to identify and record the most current known locations of these species in the project vicinity. Surveys shall be conducted by a qualified botanist, and shall include collection of Global Positioning System (GPS) data points for use during flagging of sensitive plant species locations and avoidance buffers prior to construction.
 - d. Starting no later than February 1 of each year of project construction, operation, and decommissioning, the approved biologist(s) shall conduct breeding and nesting surveys of sensitive avian species within 500 feet of the project footprint. The approved biologist(s) shall continue those surveys at least once per week during periods of project construction, well re-packing, and decommissioning that occur between February 1 and October 1 each year.

In the event that any sensitive species are present in the project area but do not exhibit reproductive behavior and are not within the estimated breeding/reproductive cycle of the subject species, the qualified biologist shall either: (1) initiate a salvage and relocation program prior to any excavation/maintenance activities to move sensitive species by hand to safe locations elsewhere along the project reach or (2) as appropriate, implement a resource avoidance program with sufficient buffer areas to ensure adverse impacts to such resources are avoided. The Permittee shall also immediately notify the Executive Director of the presence of such species and which of the above actions are being taken. If the presence of any such sensitive species requires review by the United States Fish and Wildlife Service and/or the California Department of Fish and Game, then no development activities shall be allowed or continue until any such review and authorizations to proceed are received and also authorizes construction to proceed.

If an active nest of a federally or state-listed threatened or endangered species, species of special concern, or any species of raptor or heron is found, the Permittee shall notify the appropriate State and Federal wildlife agencies within 24 hours, and shall develop an appropriate action specific to each incident. The Permittee shall notify the California Coastal Commission in writing by facsimile or e-mail within 24 hours and consult with the Commission regarding determinations of State and Federal agencies.

If the biologist(s) identify an active nest of any federally- or state-listed threatened or endangered species, species of special concern, or any species of raptor or heron within 300 feet of construction activities (500 feet for raptors), the biologist(s) shall monitor bird behavior and construction noise levels. The biologist(s) shall be present at all relevant construction meetings and during all significant construction activities (those with potential noise impacts) to ensure that nesting birds are not disturbed by

construction-related noise. The biologist(s) shall monitor birds and noise every day at the beginning of the project and during all periods of significant construction activities. Construction activities may occur only if construction noise levels are at or below a peak of 65 dB at the nest(s) site. If construction noise exceeds a peak level of 65 dB at the nest(s) site, sound mitigation measures such as sound shields, blankets around smaller equipment, mixing concrete batches off-site, use of mufflers, and minimizing the use of back-up alarms shall be employed. If these sound mitigation measures do not reduce noise levels, construction within 300 ft. (500 ft. for raptors) of the nesting areas shall cease and shall not re-start until either new sound mitigation can be employed or nesting is complete.

If active plover nests are located within 300 feet of the project or access routes, avoidance buffers shall be established to minimize potential disturbance of nesting activity, and the biologist shall coordinate with and accompany the Permittee's operational staff as necessary during the nesting season to guide access and activities to avoid impacts to nesting plovers. The biologist shall contact the USFWS and CDFW immediately if a nest is found in areas near the wellhead that could be affected by project operations. Operations shall be immediately suspended until the Permittee submits to the Executive Director written authorization to proceed from the USFWS.

If, after starting project activities, the Permittee must stop construction due to the presence of sensitive species or due to the lack of necessary approvals or permits (e.g., a lease from the State Lands Commission), the Permittee shall remove and properly store all project-related equipment and vehicles away from the project site in a manner that does not adversely affect sensitive species.

- 15. Project Area Restoration.** PRIOR TO COMMENCEMENT OF CONSTRUCTION, the Permittee shall prepare a Restoration Plan for review and approval by the Executive Director that is consistent with the City of Marina restoration requirements as codified in Municipal Code Section 17.41.100. The Plan shall include, at a minimum:
- a. a description of the habitat characteristics and extent of the area to be restored, which shall include, at a minimum, all areas of temporary disturbance in the project footprint other than those areas actively in use by CEMEX for mining purposes;
 - b. performance standards and success criteria to be used;
 - c. a minimum 3:1 ratio of native plants to be replaced within the affected area;
 - d. an invasive species control program to be implemented for the duration of the project;
 - e. the timing of proposed restoration activities;
 - f. proposed methods to monitor restoration performance and success for at least five years following initiation of the Plan; and
 - g. identification of all relevant conditions, requirements, and approvals by regulatory agencies needed to implement the Plan.

The Permittee shall implement the Plan: (1) during and immediately following construction and prior to operation of the test well, and (2) during and immediately following decommissioning activities.

Success criteria will include plant cover and species composition/diversity, which shall meet or exceed adjacent undisturbed dune habitat on the CEMEX parcel as determined by the biological monitor. Success criteria shall, at a minimum, be consistent with the requirements of the existing Lapis Revegetation Plan prepared for the RMC Lonestar Lapis Sand Plant (25 percent average vegetative cover and species diversity of all species listed in Group A of the Plan present and providing at least 1 percent cover).

16. **Invasive Species Control.** The Permittee shall remove and properly dispose of at a certified landfill all invasive or exotic plants disturbed or removed during project activities. The Permittee shall use existing on-site soils for fill material to the extent feasible. If the use of imported fill material is necessary, the imported material must be obtained from a source that is known to be free of invasive plant species, or the material must consist of purchased clean material.

17. **Posting of Bond.** To ensure timely removal, **PRIOR TO COMMENCEMENT OF CONSTRUCTION**, the Permittee shall provide to the Commission a surety bond or similar security device acceptable to the Executive Director for \$1,000,000 (one million dollars), and naming the Coastal Commission as the assured, to guarantee the Permittee's compliance with Special Conditions 6 and 15. The surety bond or other security device shall be maintained in full force and effect at all times until Special Conditions 6 and 15 have been met.

GEOSCIENCE

GEOSCIENCE Support Services, Inc. | P (909) 451-6650 | F (909) 451-6638
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APPENDIX G-2

**Monterey Peninsula Water Supply Project – Test Slant Well Long Term Pumping Test and
Coastal Development Permit #A-3-MRA-14-0050**

July 23, 2015

July 23, 2015

Charles Lester
Executive Director
c/o Tom Luster
California Coastal Commission
45 Fremont St., Suite 2000
San Francisco, CA 94105-2219

Delivered by E-mail

Subject: Monterey Peninsula Water Supply Project – Test Slant Well Long Term Pumping Test and Coastal Development Permit #A-3-MRA-14-0050

Dear Tom,

This letter has been prepared by the Hydrogeologic Working Group (HWG) to propose an amendment to Special Condition 11 of the California Coastal Commission (CCC) Coastal Development Permits A-3-MRA-14-14-0050 dated December 8, 2014 and 9-14-1735, dated January 28, 2015. The proposed amendment includes some revised language to Special Condition 11 to help clarify requirements for Test Slant Well pumping, and provides responses to the CCC letter of July 3, 2015 (CCC Letter). In addition, this letter provides responses to the Hopkins Groundwater Consultants letter of June 25, 2015 (Hopkins Letter), which was submitted to the CCC and raised issues related to the HWG's analysis of issues concerning the Test Slant Well.

Proposed Modifications to Special Condition 11

In order for Special Condition 11 to work as intended, the Condition requires definitions of certain terms, some clarification of key sentences, and inclusion of an additional reporting requirement.

Special Condition 11 as approved by the CCC is provided below, and we have underlined those key sentences that require further clarification:

PRIOR TO STARTING PROJECT-RELATED PUMP TESTS, the Permittee shall install monitoring devices a minimum of four wells on the CEMEX site, within 2000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells and shall provide to the Executive Director the baseline water and Total Dissolved Solids ("TDS") levels in those wells prior to commencement of pumping from the test well. **The Hydrogeology Working Group shall establish the baseline water and TDS levels for the monitoring wells.** During the project pump tests, the Permittee shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request. **If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pump test and inform the Executive Director.** The Hydrogeology

Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and it will submit its determination to the Executive Director. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing to resume. **If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit.**

The discussion below provides proposed definitions for groundwater elevation trends, drawdown, and TDS increase (to clarify permit language), revisions to the bolded sentences above, inclusion of an additional reporting requirement in the condition, and rationale for the proposed modifications.

Definition of Regional Groundwater Elevation Trends and TDS Level Trends

For purposes of the language in Special Condition 11, regional groundwater elevation and TDS level trends are seasonal fluctuations in groundwater elevation and TDS levels throughout Salinas Valley Groundwater Basin (and specifically in the CEMEX area at MW-4) that result from causes other than Test Slant Well pumping.

Definition of "Drop in Water Level" or "Drawdown"

For purposes of the language in Special Condition 11, "drop in water level" should be considered the same as "drawdown," which is defined as that change in groundwater elevation at the compliance well (MW-4S and MW-4M), which can be shown to be solely from Test Slant Well pumping. Specifically, drawdown is the difference between measured ground water elevations (during pumping) and regional/background (non-pumping) groundwater elevation trends.

Definition of TDS Level Increase

For purposes of the language in Special Condition 11, TDS level increase is defined as that increase in total dissolved solids (TDS) at the compliance well (MW-4S and MW-4M), which can be shown to be solely from Test Slant Well pumping. Specifically, TDS level increase is any increase in TDS shown by the difference between measured TDS (during pumping) and regional/background (non-pumping) TDS level trends.

Proposed Revisions to First Bolded Sentence

The first bolded sentence with proposed modifications would read as follows: "The Hydrogeology Working Group shall establish the baseline water and TDS levels for the monitoring wells, along with regional groundwater elevation trends and TDS level trends."

In addition, a new reporting requirement would be added after the fourth sentence in the condition that would read as follows: "The Hydrogeology Working Group shall review weekly monitoring data and

prepare a monthly report that shall be submitted to the Executive Director documenting the regional/background groundwater elevation trends and TDS level trends.”

Proposed Revisions to Second Bolded Sentence

The second bolded sentence with proposed modifications would read as follows, “If drawdown exceeds 1.5 feet at MW-4 (based on averaging of MW-4S and MW-4M) from regional groundwater elevation trends, or if TDS levels increase more than two thousand parts per million (based on averaging of MW-4S and MW-4M) from regional TDS level trends, the Permittee shall immediately stop the pump test and inform the Executive Director.”

Proposed Revisions to Third Bolded Sentence

The third bolded sentence with proposed modifications would read as follows, “If, however, the Executive Director determines that the Test Slant Well has caused a drop in water level (i.e., drawdown) of 1.5 feet or more or a TDS increase of two thousand parts per million or more, the Permittee shall not re-start the pump test until receiving an amendment to this permit.”

Restated Special Condition 11

With the proposed modifications, Special Condition 11 as revised would read as follows:

PRIOR TO STARTING PROJECT-RELATED PUMP TESTS, the Permittee shall install monitoring devices a minimum of four wells on the CEMEX site, within 2000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells and shall provide to the Executive Director the baseline water and Total Dissolved Solids ("TDS") levels in those wells prior to commencement of pumping from the test well. The Hydrogeology Working Group shall establish the baseline water and TDS levels for the monitoring wells, along with regional groundwater elevation trends and TDS level trends. During the project pump tests, the Permittee shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request. The Hydrogeology Working Group shall review weekly monitoring data and prepare a monthly report that shall be submitted to the Executive Director documenting the regional/background groundwater elevation trends and TDS level trends. If drawdown exceeds 1.5 feet at MW-4 (based on averaging of MW-4S and MW-4M) from regional groundwater elevation trends, or if TDS levels increase more than two thousand parts per million (based on averaging of MW-4S and MW-4M) from regional TDS level trends, the Permittee shall immediately stop the pump test and inform the Executive Director. The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and it will submit its determination to the Executive Director. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing

to resume. If, however, the Executive Director determines that the Test Slant Well has caused a drop in water level (i.e., drawdown) of 1.5 feet or more or an increase in TDS of two thousand parts per million or more, the Permittee shall not re-start the pump test until receiving an amendment to this permit.

Rational for Proposed Special Condition 11 Text Modifications

The selection of 1.5 feet was intended to refer to a drawdown caused solely by the Test Slant Well, not a regional decline in groundwater levels due to other factors. Seasonal declines in groundwater levels occur in essentially all groundwater basins that are highly developed, due to increased municipal, agricultural, industrial, and domestic pumping that occurs during the dry season from March/April to August/September. The Salinas Valley is no exception to this pattern of seasonal declines in regional groundwater levels (MCWRA, April 2015; **Attachment A**). These seasonal declines are not a result of the cone of depression from one or a few wells, but rather a cumulative decline in groundwater levels and groundwater storage from tens to hundreds of pumping wells in a given basin. Total groundwater pumping from the Pressure Subarea of Salinas Valley Groundwater Basin is estimated at approximately 130,000 acre-feet per year (AFY) as a long-term average, with the most recent annual estimate of 118,000 AFY in 2013 (Brown and Caldwell, 2015). Within the Pressure Subarea south of Salinas, it is estimated that 40 percent of the groundwater pumping is from the 180-Foot Aquifer. Therefore, the effects are widespread throughout the entire Salinas Valley basin, and even areas with limited or no pumping within the basin will experience seasonal/regional water level declines due to cumulative basin pumping effects. This is especially the case in a semi-confined to confined groundwater system (where pumping effects are more widespread due to low storativity values), such as occurs within the northern Salinas Valley. Further supporting documentation for seasonal declines in Salinas Valley Groundwater Basin is provided in a subsequent section of this letter that provides responses to the CCC Letter.

Trends and fluctuations in both groundwater elevations and salinity can be observed in monitoring wells. Specifically, non-Test Slant Well pumping groundwater elevations in the 180-FTE Aquifer generally show a landward hydraulic gradient which results in progressive sea-water intrusion and increased salinity landward. Groundwater elevations in the shallow Dune Sand Aquifer show an oceanward hydraulic gradient, as would be expected given the general lack of groundwater pumping from this aquifer. With respect to the Test Slant Well monitoring well network, it should be noted that MW-5S is likely screened in a perched or shallower zone than the Dune Sand Aquifer screened in other "S" monitoring wells. This is apparent from the difference in groundwater elevation recorded at MW-5S (considerably higher) compared to other "S" monitoring well groundwater elevations (MW-3S, MW-4S, MW-6S).

The current language in Special Condition 11 can and has been interpreted to mean zero drawdown is allowed at MW-4 regardless of seasonal declines in regional groundwater levels; thereby making the stated performance standard of 1.5 feet meaningless (i.e., when regional groundwater levels decline by 1.5 feet or more during the summer months, regardless of Test Slant Well pumping, the Test Slant Well may not operate). The intent of Special Condition 11 was to establish a performance standard for MW-4 that would be protective of inland production wells by ensuring that the Test Slant Well would not be

allowed to cause greater than anticipated drawdown or salinity. The selected performance standards were 1.5 feet for drawdown and 2,000 mg/L for TDS. But in order for these performance standards to work in practice and to confirm whether the Test Slant Well is complying with them, they must be applied against regional trends. For reasons described above, the language in Special Condition 11 needs to be modified to reflect the CCC's intent that the Test Slant Well could not be the cause of more than 1.5 feet of drawdown or a TDS increase of more than 2,000 mg/L at MW-4 without further CCC review and technical analysis. The CCC's intent was not to stop Test Slant Well pumping where declines in regional groundwater levels from other sources result in a 1.5 foot or greater drop in water levels at MW-4. Methods for calculation of drawdowns that are superimposed on a regional trend are described in the following section of this letter that provides responses to the CCC Letter.

The proposed averaging of drawdowns and salinity increase (due to Test Slant Well pumping) in the MW-4S (Dune Sand Aquifer) and MW-4M (180-FTE Aquifer) for comparison to the performance standards of 1.5 feet and a 2,000 mg/L TDS increase are appropriate for the following reasons: a) the Dune Sand Aquifer and 180-FTE Aquifer beneath the CEMEX site are not separated by a thick continuous clay layer (aquiclude), b) the Dune Sand Aquifer (represented by MW-4S) and 180-FTE Aquifer (represented by MW-4M) at the CEMEX site are in hydraulic communication due to the lack of a separating aquiclude, c) pumping just from the Dune Sand Aquifer at the CEMEX site will cause a water level response at nearby monitoring wells screened in the 180-FTE Aquifer, and pumping just from the 180-FTE Aquifer at the CEMEX site will cause a water level response at nearby monitoring wells in the Dune Sand Aquifer, and d) the Test Slant Well is screened in (and pumps water from) both the Dune Sand Aquifer and the 180-FTE Aquifer. Given the facts that the Dune Sand Aquifer and 180-FTE Aquifer are not isolated beneath the CEMEX site and the Test Slant Well is screened in both aquifers, an averaging of drawdowns in MW-4S and MW-4M due to Test Slant Well pumping is the most appropriate value to use for comparison to the 1.5 foot performance standard. The exclusion of MW-4D from the average (because the 400-Foot Aquifer beneath CEMEX shows no effects from Test Slant Well pumping) is conservative in that its inclusion would result in a lower calculated average to compare to the 1.5 foot threshold. Additional discussion regarding MW-4D is provided in the following section on responses to the CCC Letter.

Responses to CCC Letter and Supporting Documentation

The CCC Letter provided the Executive Director's determination that the water level decrease at MW-4 was caused in part by pumping of the test slant well. Therefore, the CCC concluded that, "Pursuant to Special Condition #11, Cal-Am must therefore submit an application for a permit amendment to allow restart of the test and is not to conduct further pump testing until receiving an amended permit." However, the CCC acknowledged the influence of seasonal declines in regional groundwater level trends due to cumulative basin pumping on the water levels measured at MW-4. Given the benefit of several months of groundwater monitoring data and ongoing data collection, the CCC stated that, "...we believe the current permit and its conditions can be modified to better reflect aquifer conditions identified through these data..." Thus, the CCC requested additional information and supporting documentation for previous conclusions by the HWG in our letters dated June 10 and June 22, 2015. The requested analysis and supporting documentation is described below and provided as attachments to this letter.

Characterization of Local/Regional Effects

The occurrence of seasonal groundwater level declines in Salinas Valley Groundwater Basin is documented in reports prepared by Monterey County Water Resources Agency (MCWRA) staff for submittal to the Board of Directors (MCWRA, 2015). The most recent available report is dated April 27, 2015, and states the following, “Groundwater level measurements indicate that, by February, water levels had begun their seasonal decline in the Pressure 400-Foot Aquifer...In the Pressure 180-Foot Aquifer and the East Side and Forebay Subareas, groundwater levels began declining in March. Between February and March, average water levels dropped by three feet in the Pressure 180-Foot Aquifer...” The MCWRA report provides a hydrograph for the 180-Foot Aquifer for several different years documenting a consistent seasonal decline in groundwater levels from March to August.

Additional documentation of seasonal declines in regional groundwater level trends from March/April to July/August in the Salinas Valley Groundwater Basin due to cumulative basin pumping from municipal, agricultural, industrial, and domestic wells is provided in **Table 1** and as groundwater hydrographs in **Attachment A**. The summary of the groundwater hydrograph data presented in **Table 1** includes calculation of the rate of decline that normalizes the data relative to the duration of the seasonal decline (or duration of the available data set) in each hydrograph. The groundwater hydrographs from ten wells in the Salinas Valley Groundwater Basin screened in the 180-Foot Aquifer provided in **Attachment A** show that peak groundwater elevations occur between January and April and the lowest groundwater elevations typically occurred in August.

The magnitude of the seasonal decline in groundwater level trends measured at these in-basin wells ranged from 2.9 to 23.5 feet over a three to five month duration. Review of the location map for the wells indicates that the magnitude (and rate) of the seasonal water level decline among these wells appears to be greatest near the City of Salinas and generally decreases towards the ocean, as would be expected given the distribution of wells pumping from the 180-Foot Aquifer. **Table 1** and the groundwater hydrographs in **Attachment A** clearly document the seasonal decline that occurs in the 180-Foot Aquifer throughout the Salinas Valley Groundwater Basin, even though the concentration of wells pumping from the 180-Foot Aquifer is several miles inland from the coast.

Table 1. Summary of Seasonal Water Level Decline Salinas Valley Groundwater Basin 180-Foot Aquifer Wells.

| Well ID | Distance from Test Slant Well (miles) | Direction from Test Slant Well | Seasonal Decline (feet) | Duration of Decline | Rate of Decline (feet/day) |
|--------------------|---------------------------------------|--------------------------------|-------------------------|----------------------|----------------------------|
| MW-4M ¹ | 0.4 | E | 3.75 | Mar 9 – Jul 1, 2015 | 0.033 |
| MW-5M ¹ | 1.8 | E | 5.85 | Mar 10 – Jul 1, 2015 | 0.052 |
| MW-6M ¹ | 4.1 | SE | 8.5 | Apr 22 – Jul 1, 2015 | 0.120 |
| 33R1 | 4.6 | N-NE | 6 | Apr-Aug 2012 | 0.049 |
| 22636 | 4.3 | N-NE | 12 | Mar-Aug 2013 | 0.079 |
| 22632 | 4.4 | E | 17.5 | Mar-Aug 2013 | 0.115 |
| 22651 | 5.6 | E | 22 | Mar-Aug 2013 | 0.144 |
| 22650 | 7.2 | E | 23.5 | Mar-Aug 2013 | 0.154 |
| 31F1 | 7.3 | E | 22.5 | Apr-Aug 2013 | 0.184 |
| 16M1 | 10.5 | E-SE | 20.5 | Apr-Aug 2013 | 0.168 |

¹The “M” wells are screened in the 180-FTE Aquifer.

The frequent water level measurements being collected from wells in the Test Slant Well monitoring network document a weekly cycle with reduction in basin pumping on Sundays. This observation correlates well with our understanding of farm labor practices (they typically have Sunday off) and industrial water uses (likely minimal operations on Sunday compared to other days of the week). The weekly cycle is prominent at MW-5 (**Figure 1**) and also observed at MW-4 (**Figure 2**). The stronger weekly cycle signal in MW-5 data reflects its slightly closer proximity to the concentration of basin pumping wells. The weekly cycle signal is even stronger in MW-6, which is located further inland than MW-5 (Geoscience, 2015).

Effects on Different Aquifers

The CCC Letter suggests that because available monitoring data from the Test Slant Well monitoring network cover three different aquifers, the Special Condition 11 amendment application should consider possible use of specific thresholds for each of the three aquifers to measure potential effects of Test Slant Well pumping. The Test Slant Well monitoring network includes nested wells at each location labeled as shallow (“S”), middle (“M”), and deep (“D”) wells that correspond to the Dune Sand Aquifer, 180-FTE Aquifer, and 400-Foot Aquifer, respectively. The HWG proposes to apply the thresholds to the Dune Sand and 180-FTE Aquifers, and eliminate the 400-Foot Aquifer from future consideration for reasons described below.

Local and regional stratigraphy combined with the observed variations in the magnitude of daily tidal fluctuations in monitoring well data indicate the presence of unconfined conditions in the shallow wells (Dune Sand Aquifer), unconfined to semi-confined conditions in the middle wells (180-FTE Aquifer), and confined conditions in the deep wells (400-Foot Aquifer). Geologic data collected during drilling of borings at MW-1, MW-3, and MW-4 at the CEMEX property (e.g., the presence of a continuous clay layer above the 400-Foot Aquifer) and groundwater level monitoring from various wells during Test Slant Well pumping and non-pumping conditions demonstrate that Test Slant Well pumping has no impact on the

400-Foot Aquifer. A continuous clay layer aquitard between the 180-FTE Aquifer and 400-Foot Aquifer was observed in boreholes drilled on the CEMEX property within an interval from approximately -200 to -250 Feet MSL (Geoscience, 2014). In the 400-Foot Aquifer monitoring wells, the data collected from April to July 2015 has demonstrated that daily fluctuations are due to tidal influence and the seasonal water level declines are due to inland pumping (Geoscience, 2015; MCWRA, 2015). The starting and stopping of Test Slant Well pumping has not impacted groundwater levels at MW-4D, MW-3D, or MW-1D (**Figures 2, 3, and 4**). In particular, MW-1D is located approximately 50 feet from the Test Slant Well, and is the closest monitoring well to the Test Slant Well. As demonstrated by the data collected at MW-1D, Test Slant Well pumping has not influenced groundwater levels in the 400-Foot Aquifer even at a distance of 50 feet from the Test Slant Well. Given the lack of influence of Test Slant Well pumping on groundwater levels at MW-1D, as well as at MW-3D and MW-4D, the HWG has concluded there is no influence of Test Slant Well pumping on the 400-Foot Aquifer (**Figures 2, 3, and 4**). Thus, the HWG proposes that the groundwater level fluctuations at MW-4D be excluded from the evaluation of drawdown impacts of the Test Slant Well at the MW-4 compliance point. The exclusion of MW-4D from use in calculating the observed drawdown at MW-4 (and use of only MW-4S and MW-4M) is conservative in that the exclusion of MW-4D would result in higher values of drawdown being calculated at MW-4 (i.e., 0 drawdown at MW-4D would lower the overall average for MW-4).

Based on our review of several months of monitoring data with periods of both pumping and non-pumping of the Test Slant Well, the Test Slant Well's effects on water levels are limited to the Dune Sand Aquifer and 180-FTE Aquifer. This was expected given the screen zones in the Test Slant Well and local/regional geologic conditions as described above. Therefore, the HWG proposes that compliance with Special Condition 11 be based on drawdown and TDS variations in MW-4S (Dune Sand Aquifer) and MW-4M (180-Foot Aquifer). Further discussion of proposed thresholds is provided in the following section.

Water and TDS Levels

The CCC Letter recommends that the application propose thresholds that better reflect identified trends in the data. The HWG proposes that the drawdown threshold remain at 1.5 feet, but be defined as entirely due to drawdown from pumping of the Test Slant Well. The proposed methods for calculation of drawdown, which include accounting for the seasonal decline in water levels, are described in the following paragraphs and in **Attachment B**.

The HWG will continually evaluate regional groundwater level conditions, which typically will include a seasonal decline in groundwater levels from March/April to August/September and a seasonal recovery (increase) in water levels from August/September to January/February. In addition to Test Slant Well monitoring network wells MW-1, MW-3, MW-4, and MW-5, more monitoring wells have been added to expand the spatial distribution of monitoring wells in the network to provide improved coverage between the coast and inland pumping areas (e.g., MW-6, MW-8, and MW-9) (Geoscience, 2015). Drawdown due to pumping of the Test Slant Well will be measured as a decline in water levels from the regional water level trend, and can occur when regional groundwater levels are either rising or falling. As an example, drawdown was calculated for MW-1S/M and MW-3S/M where distinguishable water

level impacts are observed from Test Slant Well pumping (**Attachment B**). The calculated drawdowns that occurred during Test Slant Well pumping at MW-1S/M, MW-3S/M, and estimated at MW-4S/M are summarized in **Table 2**.

Table 2. Summary of Drawdown Calculations.

| Well | Drawdown (feet) | Distance from Test Slant Well (feet) |
|-------|-------------------|--------------------------------------|
| MW-1S | 8.1 | 50 |
| MW-3S | 1.8 | 550 |
| MW-4S | <0.1 ¹ | 2,000 |
| MW-1M | 6.1 | 50 |
| MW-3M | 2.0 | 550 |
| MW-4M | 0.25 ¹ | 2,000 |

¹Calculated drawdowns at MW-4S/M are so small as to be difficult to distinguish from daily tidal and seasonal declines. The stated values represent maximum potential drawdowns, and actual drawdowns are considered negligible.

Precise calculations of drawdown in MW-4S and 4M are somewhat difficult, given that the drawdowns are very small to negligible and superimposed on a declining regional water level trend (**Attachment B**). As a check, distance-drawdown plots were prepared (**Attachment C**). The distance drawdown plots, based on known drawdowns at MW-1 and MW-3, provide additional evidence that drawdowns for MW-4S and MW-4M at a distance of 2,000 feet from the Test Slant Well are expected to be negligible.

It is also important to note that if the decline in water level at the monitoring wells during the Test Slant Well pumping period were mostly due to drawdown from Test Slant Well pumping and not from seasonal water level decline, then the water level should recover back up to the pre-pumping static level (i.e., water level change during recovery should be equal/opposite of water level change during pumping). This is clearly not the case in MW-4S or 4M, as summarized in **Table 3**, which demonstrates that water levels continue to decline since Test Slant Well pumping ceased on June 5, 2015.

Table 3. Summary of Groundwater Level Elevations in MW-4S and MW-4M.

| Well | April 22: Start of Pumping Groundwater Elevation (ft. NAVD88) | June 5: End of Pumping Groundwater Elevation (ft. NAVD88) | July 1: Post Pumping Groundwater Elevation (ft. NAVD88) |
|-------|---|---|---|
| MW-4S | +4.15 | +3.25 | +3.1 |
| MW-4M | +0.4 | -1.50 | -2.1 |

In terms of the proposed threshold for drawdown at MW-4, the HWG proposes to use an average of drawdowns at MW-4S and MW-4M compared to the 1.5 foot performance standard. For Test Slant Well pumping conducted between April 22 and June 5, the average drawdown for MW-4S and MW-4M is 0.15 feet.

In terms of TDS, the HWG proposes to maintain the current performance standard of an increase in TDS of 2,000 mg/L. Similar to the method proposed for drawdown compliance, the change in TDS would be

calculated as an average of observations from MW-4S and MW-4M. The monitoring wells have instrumentation to monitor specific conductivity, which can be converted to TDS using a formula provided in the weekly monitoring reports. To date, monitoring data for specific conductivity at MW-4S and MW-4M have not shown changes in response to the Test Slant Well being turned on or off. An overall slight decline has been observed in MW-4S and an overall slight increase has been observed at MW-4M, and these changes appear related to regional conditions (or possibly instrument drift) and not pumping of the Test Slant Well. The increase in TDS due to Test Slant Well pumping would be calculated as the deviation from existing trends.

Compliance Wells

The CCC letter requested clarification of compliance with the Special Condition 11's requirement for monitoring of a minimum of four wells on the CEMEX site within 2,000 feet of the Test Slant Well. Compliance with this requirement is met with monitoring of nine wells at three locations (MW-1S, MW-1M, MW-1D, MW-3S, MW-3M, MW-3D, MW-4S, MW-4M, and MW-4D), the Test Slant Well itself, and the CEMEX North Well. All eleven of these wells are located on the CEMEX site within 2,000 feet of the TDS, and have transducers installed for continuous groundwater monitoring.

Responses to Hopkins Letter

The HWG has reviewed the letter prepared by Hopkins Groundwater Consultants dated June 25, 2015. A detailed response to comments is provided in **Attachment D**. Based upon our review of the letter, our opinions regarding the impacts of Test Slant Well pumping have not changed. As documented throughout our letter, additional monitoring data collected since Hopkins review fully support previous HWG conclusions.

Closing Thoughts

Recent events regarding the Test Slant Well pumping have led to preparation of this letter by the HWG and the need to file for an amendment to the permit. A substantial amount of technical detail has been provided in this letter to support previous HWG conclusions and to provide necessary support/documentation for the application for a permit amendment. However, it is important to note that the bottom line is that it is difficult to distinguish the precise amount of drawdown at MW-4 due to Test Slant Well pumping because the amount of drawdown at MW-4 is negligible. Whether the amount of drawdown is 0, 0.1, or 0.25 feet is not as important as noting that is much less than the 1.5 foot performance standard for drawdown at MW-4. In other words, unless the Test Slant Well drawdown effects are clearly distinguishable in the MW-4 data, the Test Slant Well pumping should be presumed to be in compliance with Special Condition 11. Furthermore, when Test Slant Well pumping is resumed, the amount of drawdown produced can reasonably be expected to be very similar as what was observed during Test Slant Well pumping from April 22 to June 5. Nonetheless, the HWG will closely monitor weekly groundwater monitoring data and report to the CCC on regional trends on a monthly basis moving forward (as described in this letter). We look forward to working closely with the CCC in future monitoring of the Test Slant Well phase of this important regional water supply project.

Sincerely,

The Hydrogeologic Working Group (Dennis Williams, Tim Durbin, Martin Feeney, Peter Leffler)



Dennis Williams



Tim Durbin



Martin Feeney



Peter Leffler

References

Geoscience, 2014, *Monterey Peninsula Water Supply Project, Hydrogeologic Investigation, Technical Memorandum (TM1), Summary of Results - Exploratory Boreholes*, prepared for California American Water and RBF Consulting, July 8.

Geoscience, 2015, *Monterey Peninsula Water Supply Project, Test Slant Well Long Term Pumping Monitoring Report No. 10, 24-June-15 – 1-July-15*, prepared for California American Water, July 7.

Monterey County Water Resources Agency (MCWRA), 2015, Agenda Title: *Receive report on Salinas Valley Water conditions for the second quarter of Water Year 2014-2015*, prepared for Board of Directors Meeting on April 27.

FIGURES

Figure 1. Groundwater Elevation in MPWSP MW-5M and MW-5D

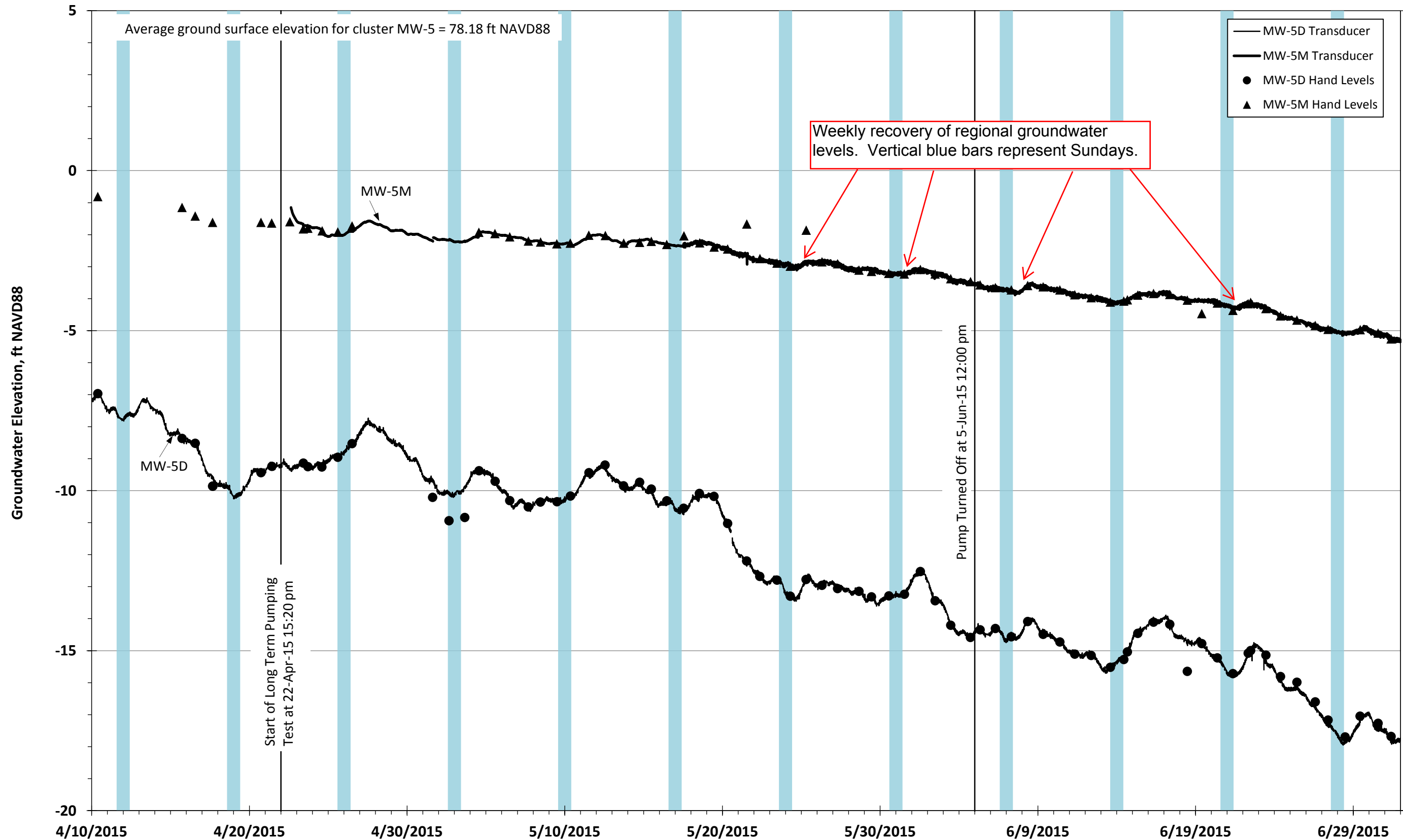


Figure 2. Groundwater Elevation in MPWSP MW-4

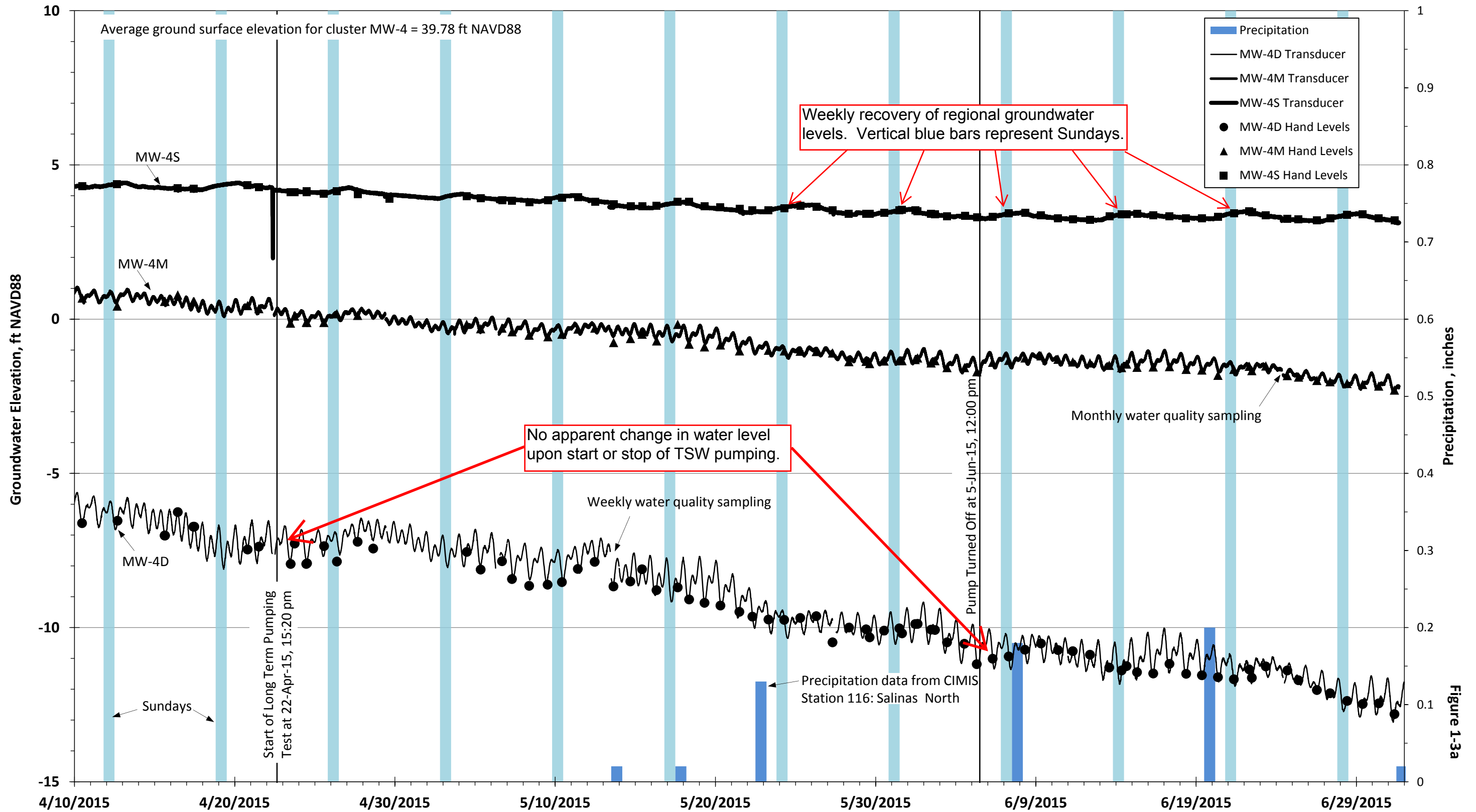


Figure 1-3a

Figure 3. Groundwater Elevation in MPWSP MW-3

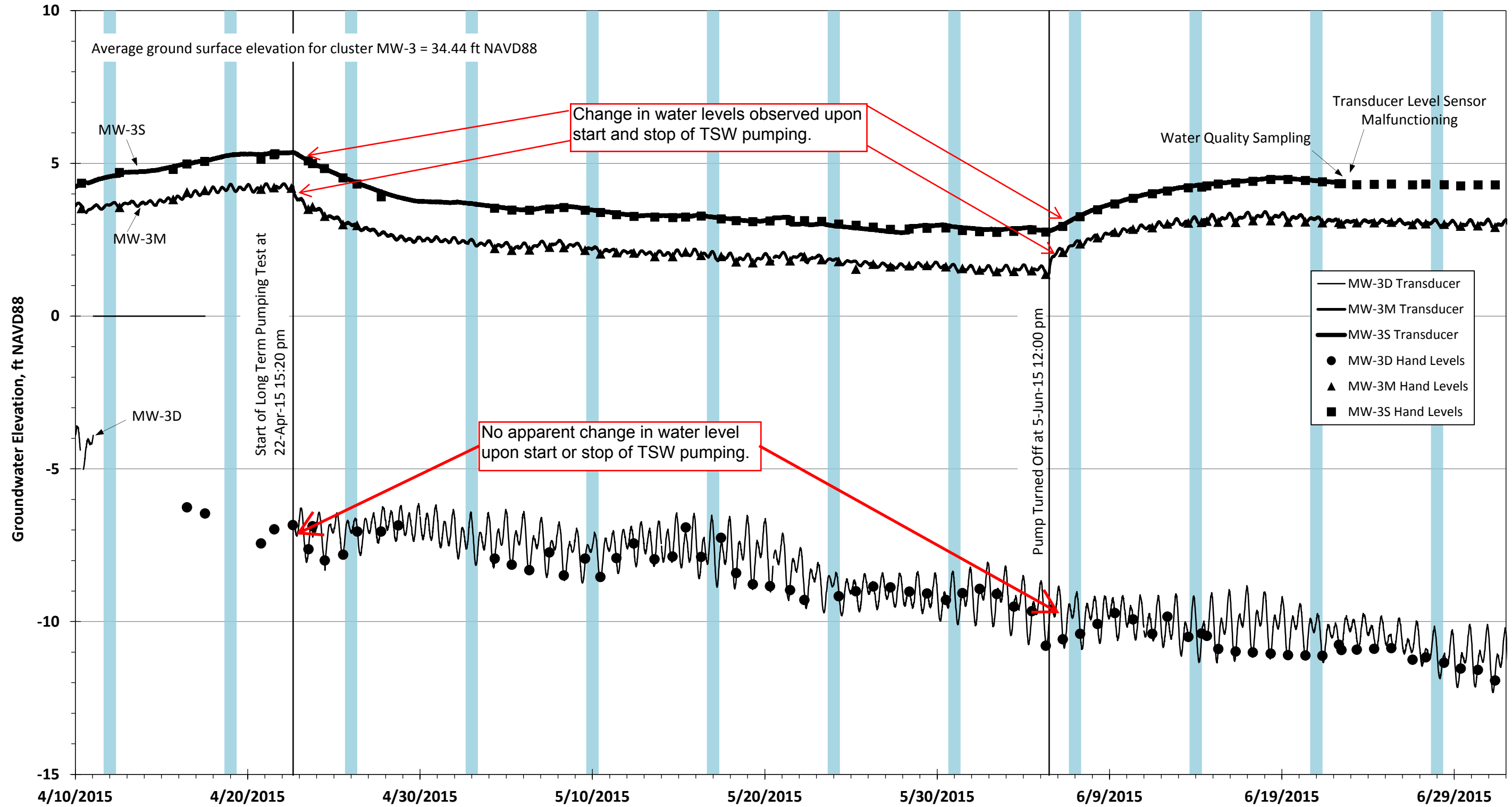


Figure 1-2

Figure 4. Groundwater Elevation in MPWSP MW-1

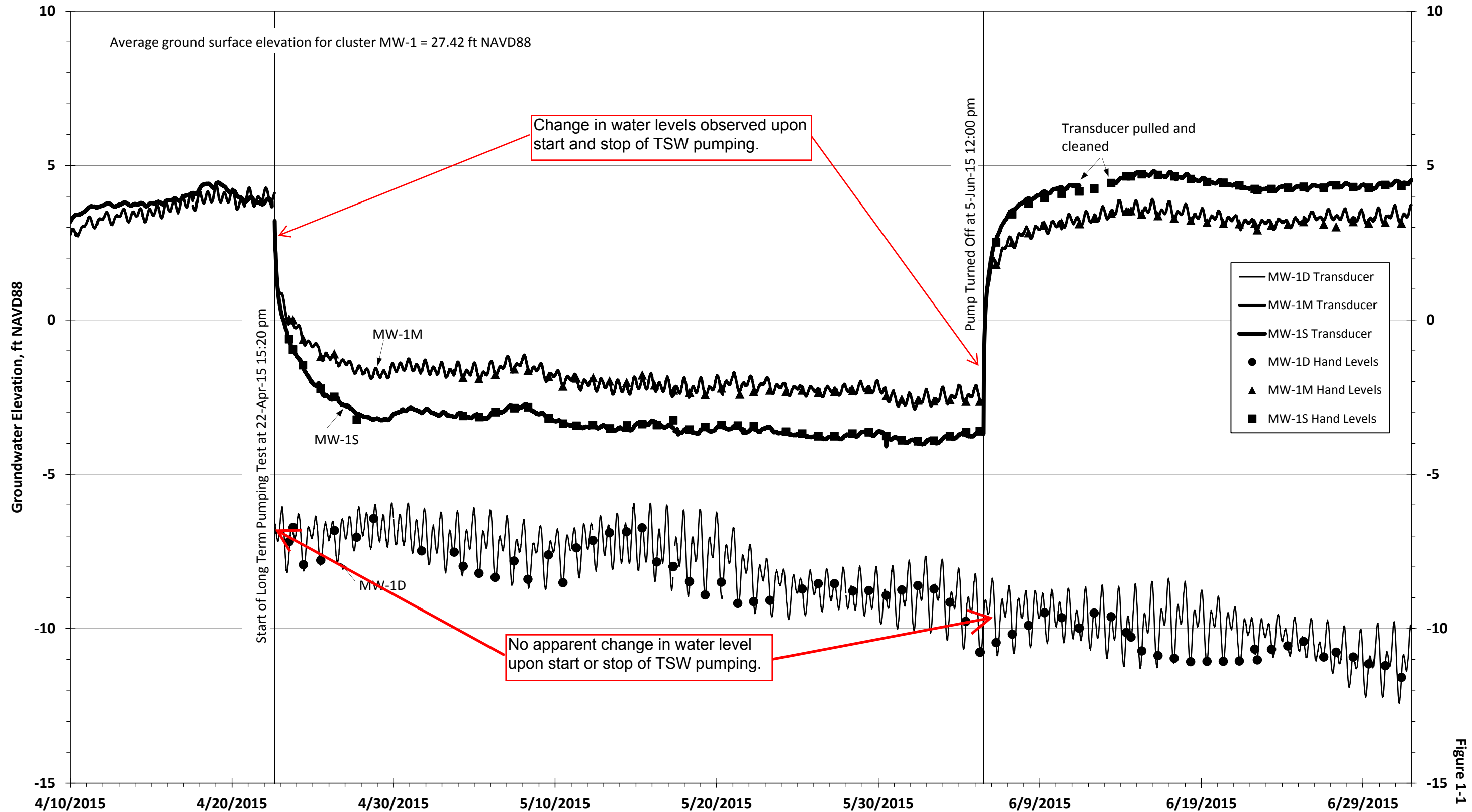
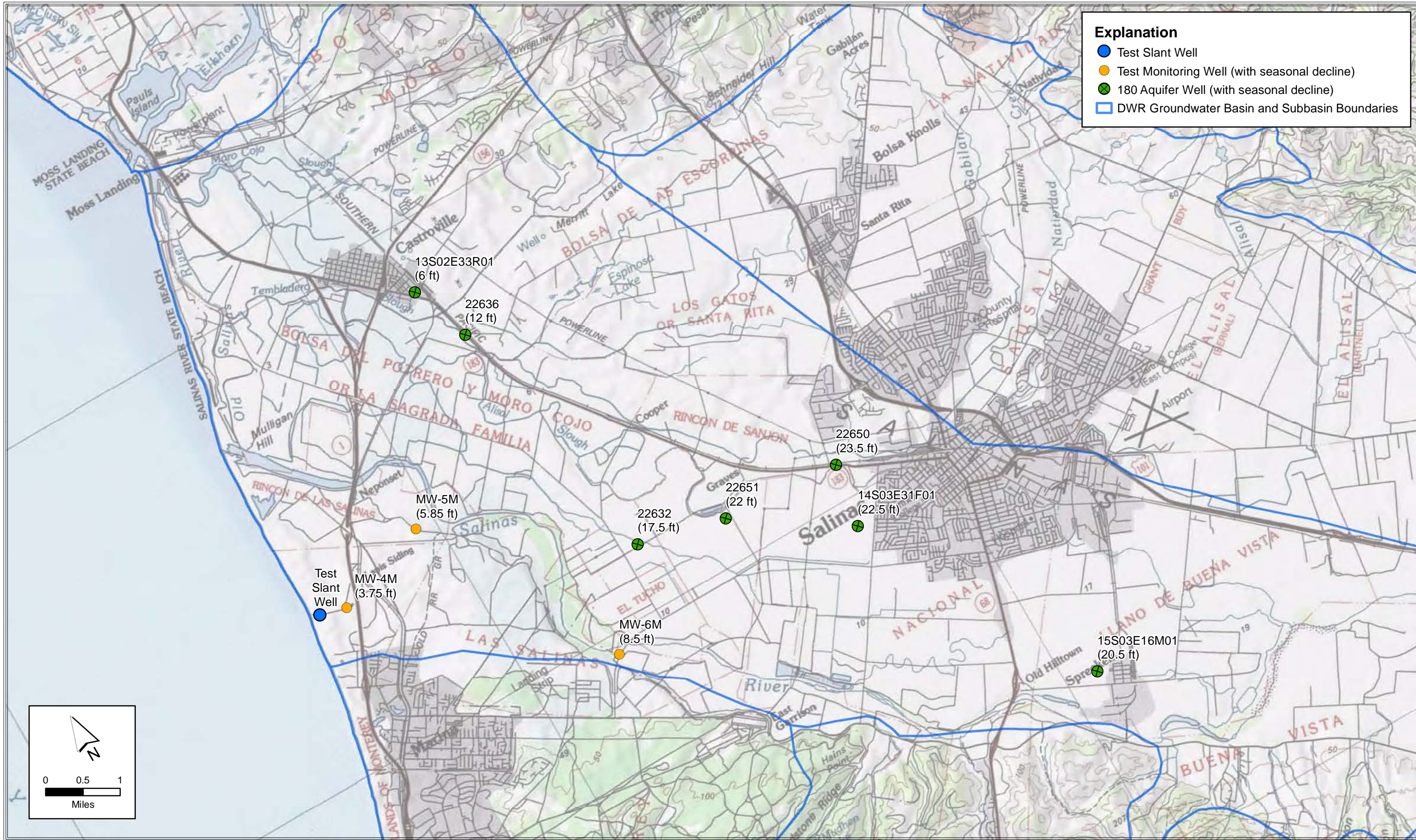


Figure 1-1

Attachment A – Documentation of Seasonal Groundwater Level Declines



Groundwater Elevation in MPWSP MW-4

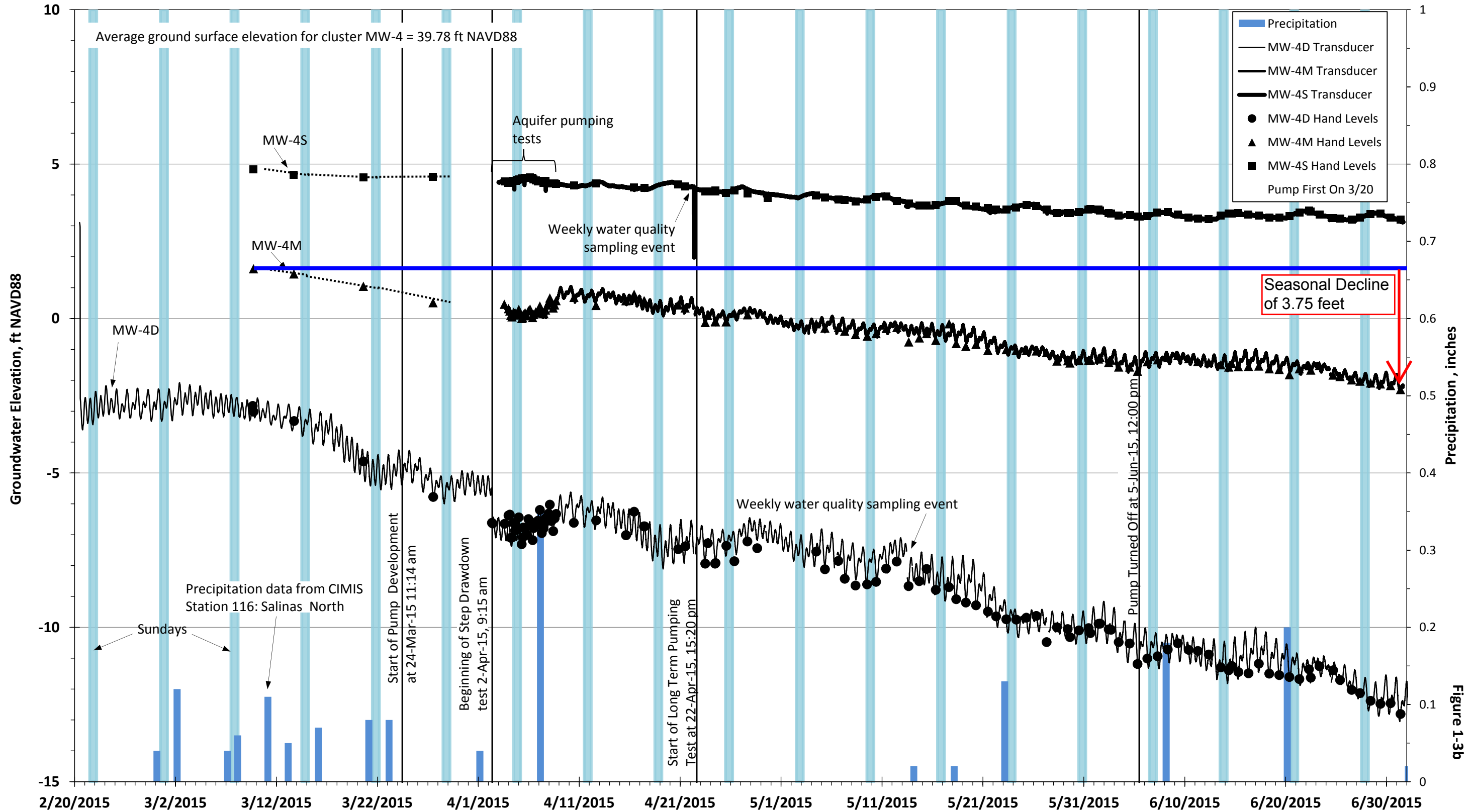


Figure 1-3b

Groundwater Elevation in MPWSP MW-5M and MW-5D

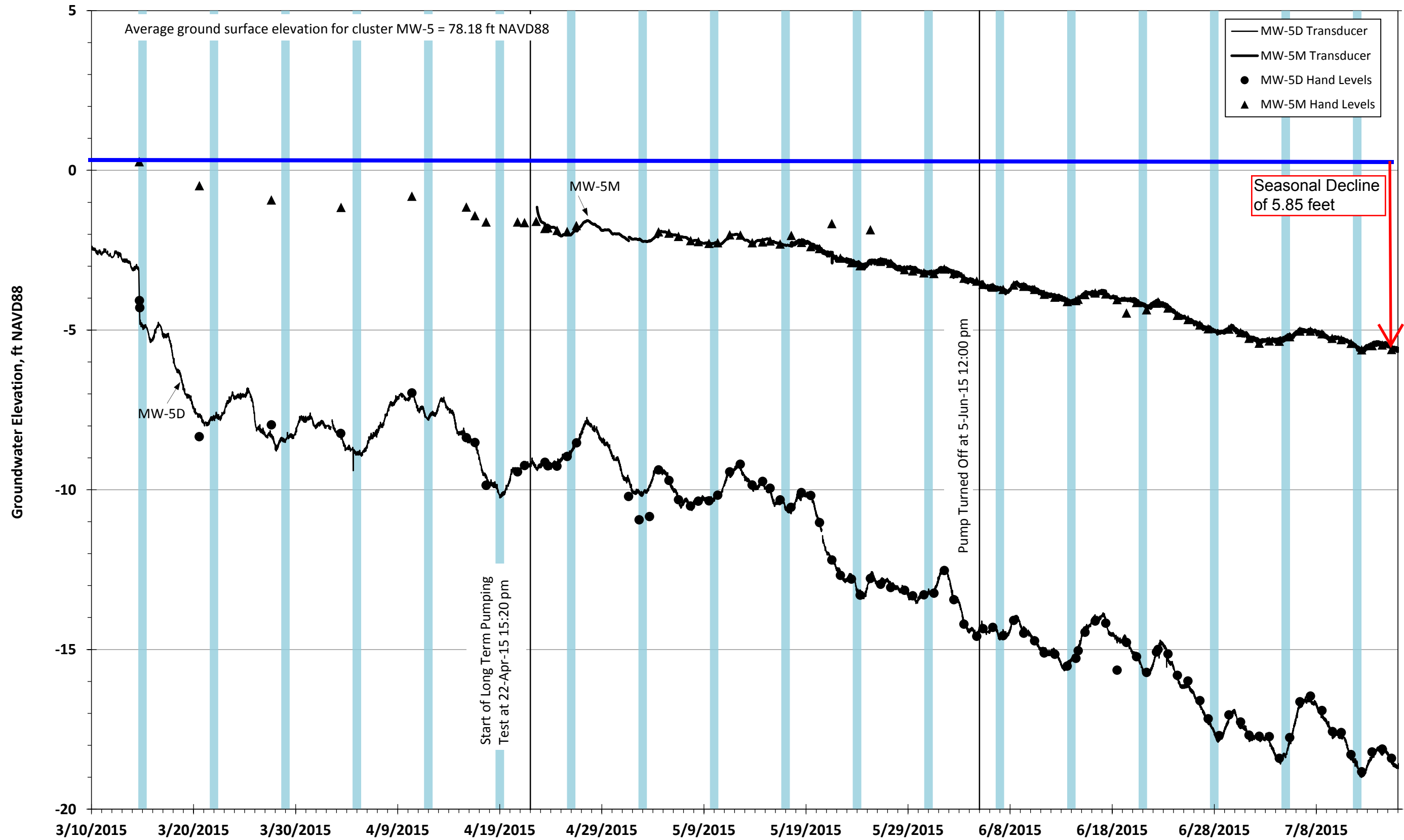


Figure 1-4b Extended

Groundwater Elevation in MPWSP MW-6

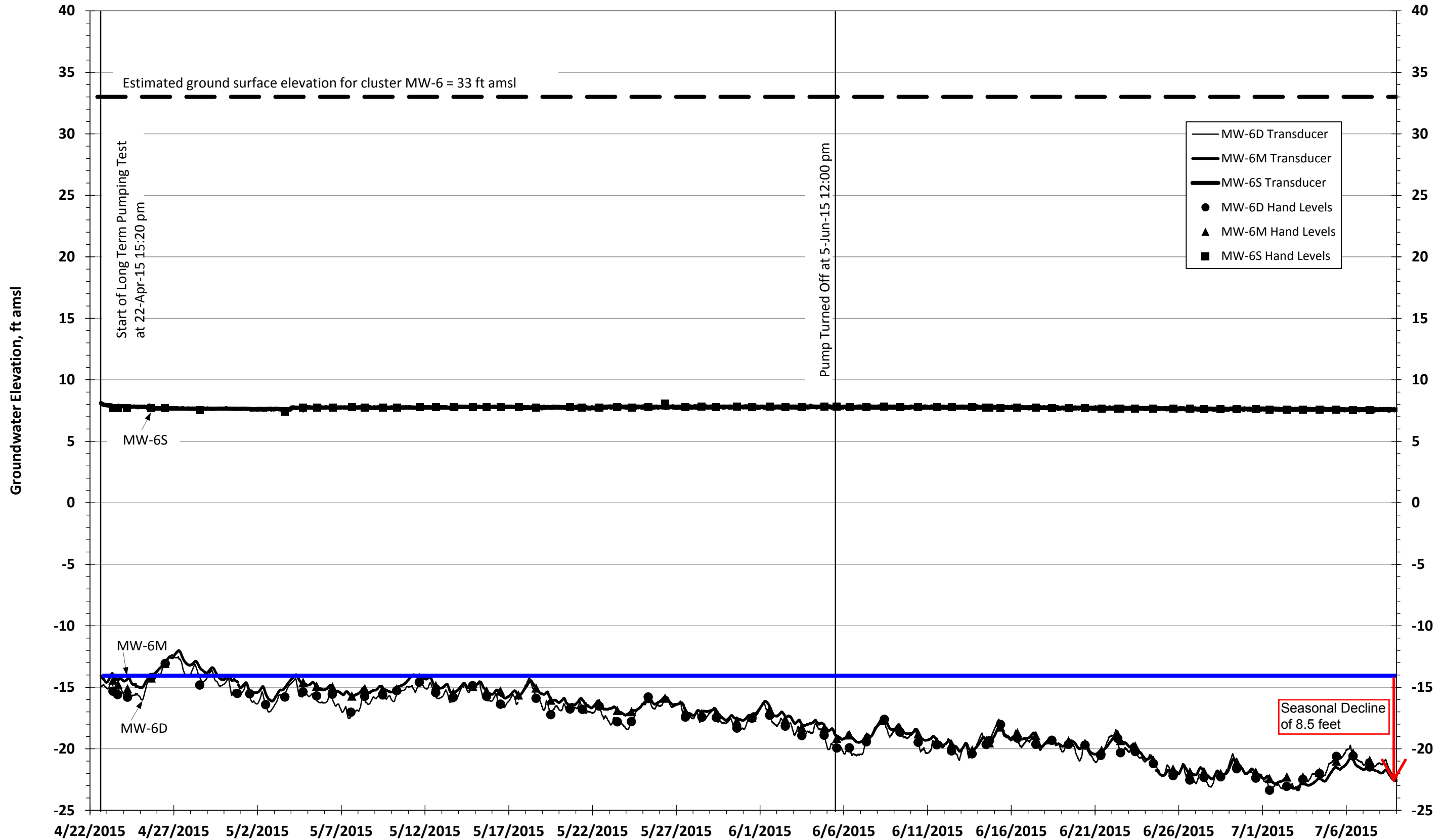
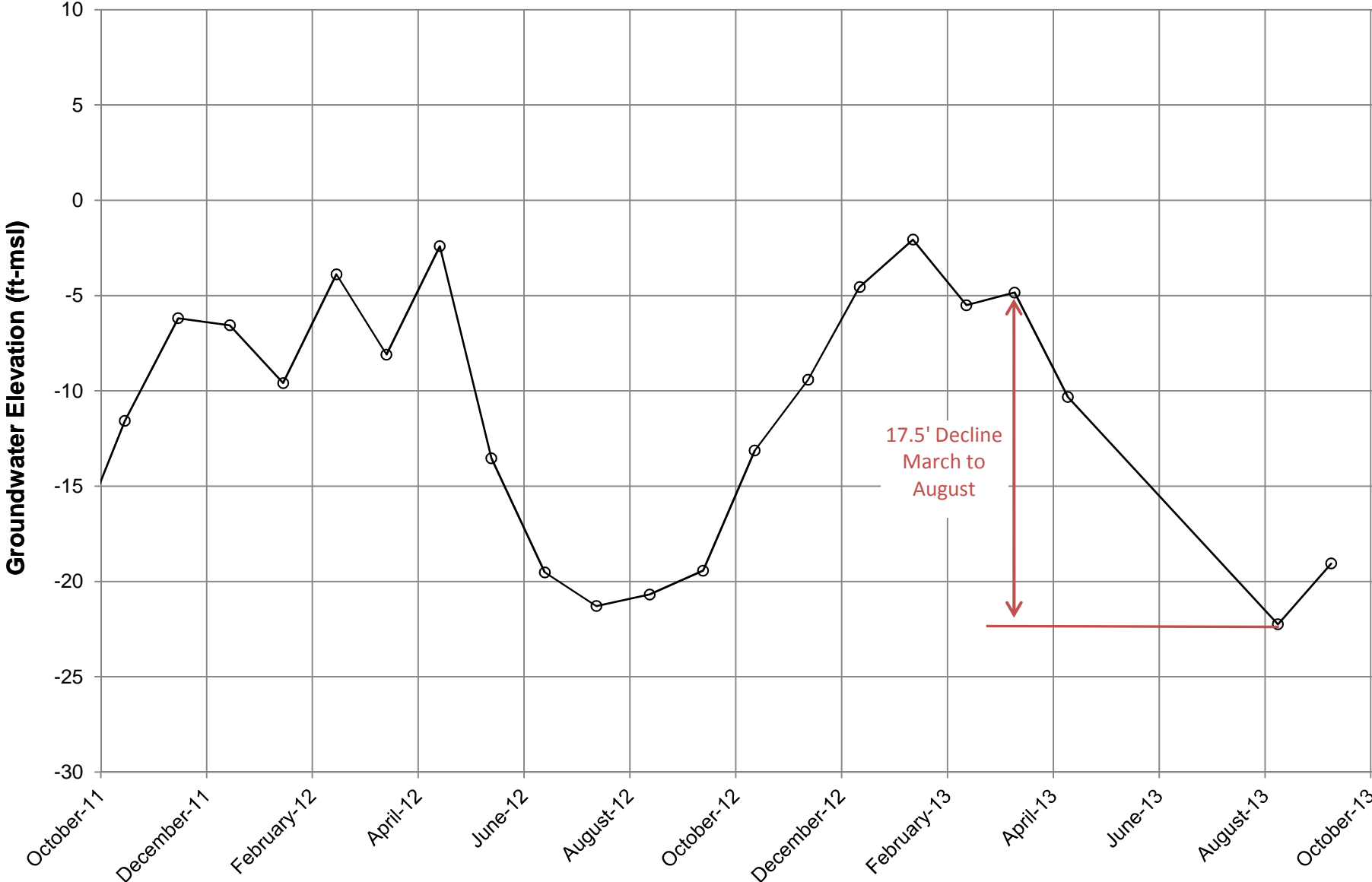
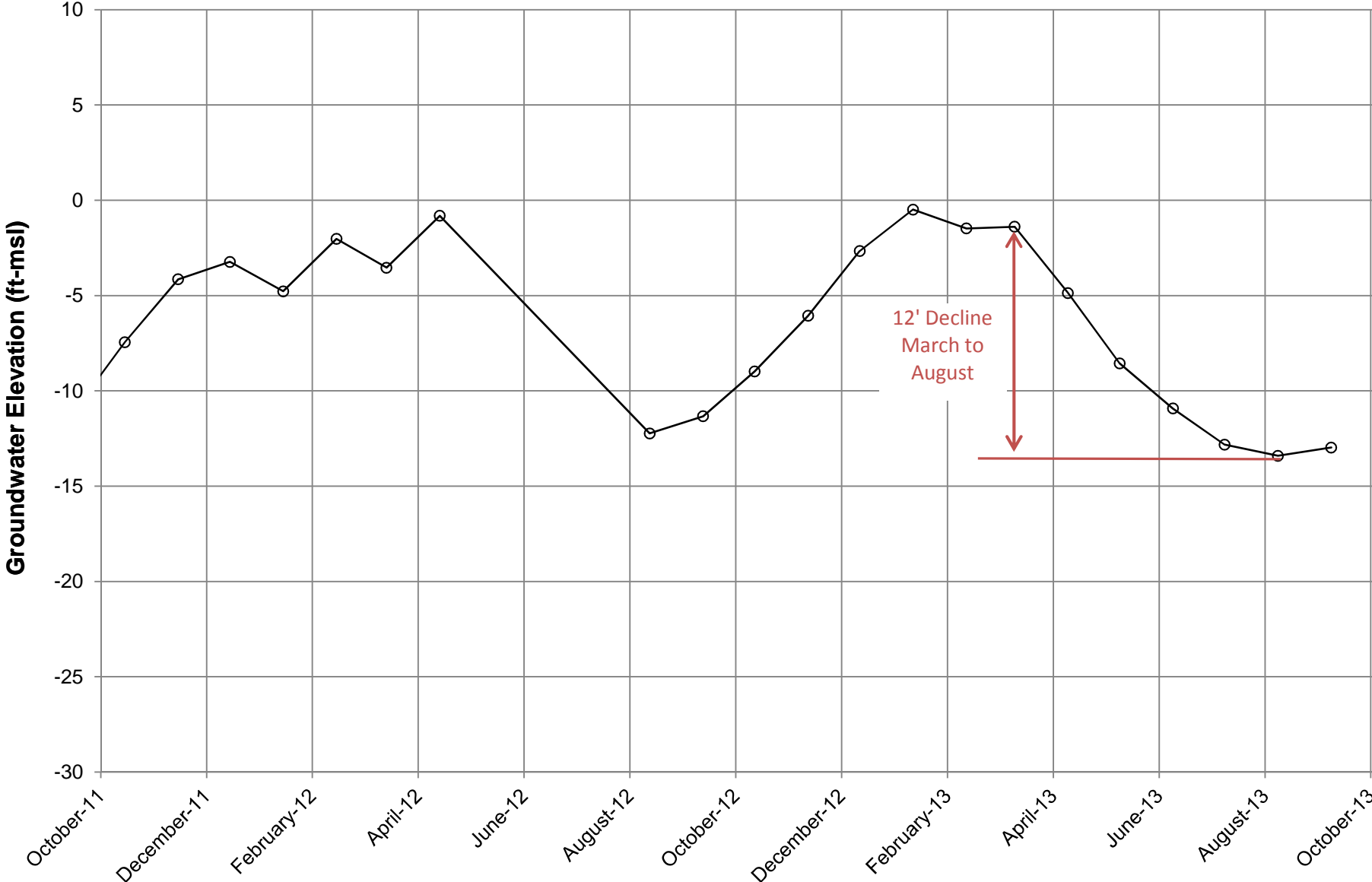


Figure 2-5

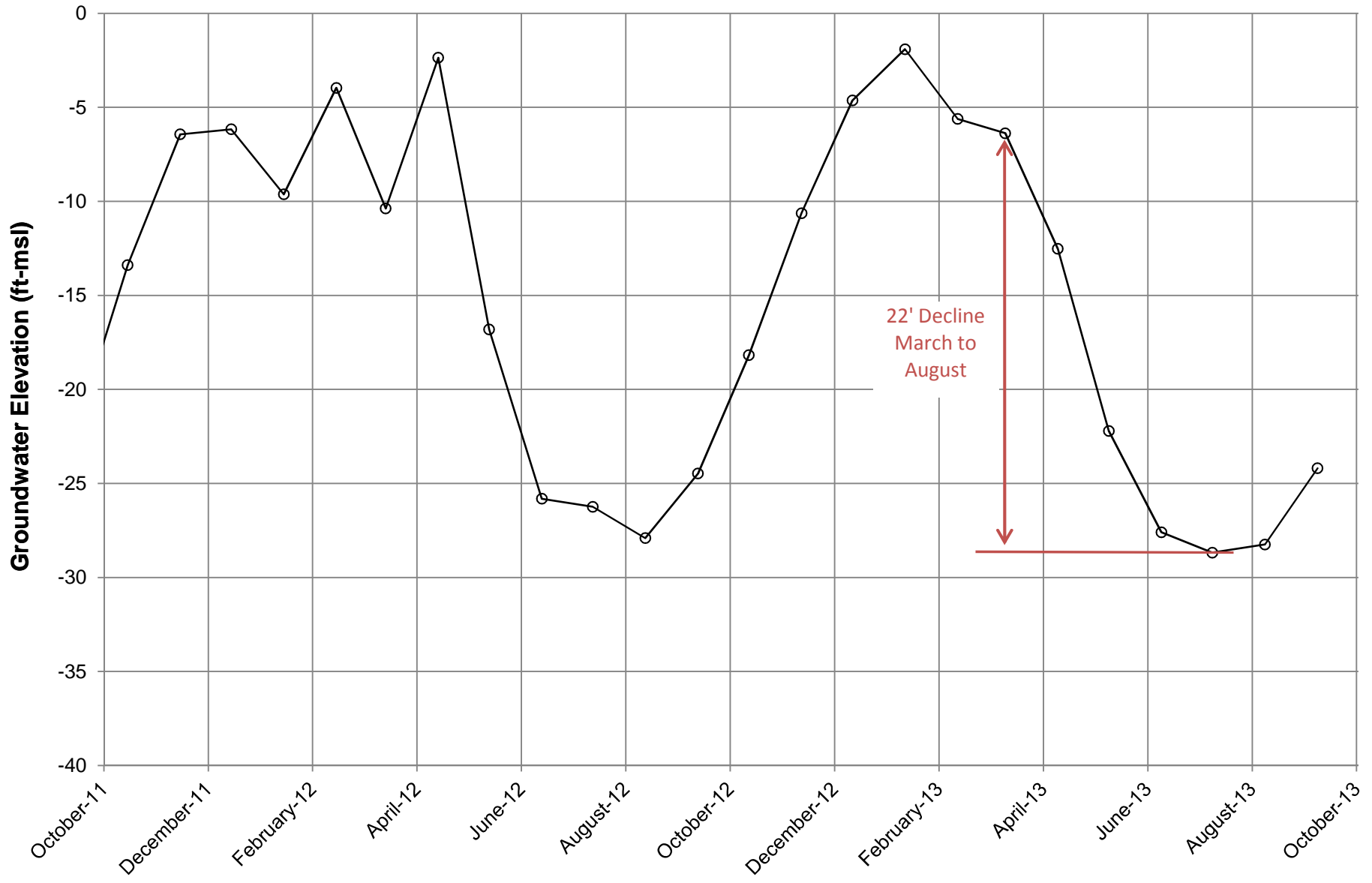
22632 - PRESSURE 180



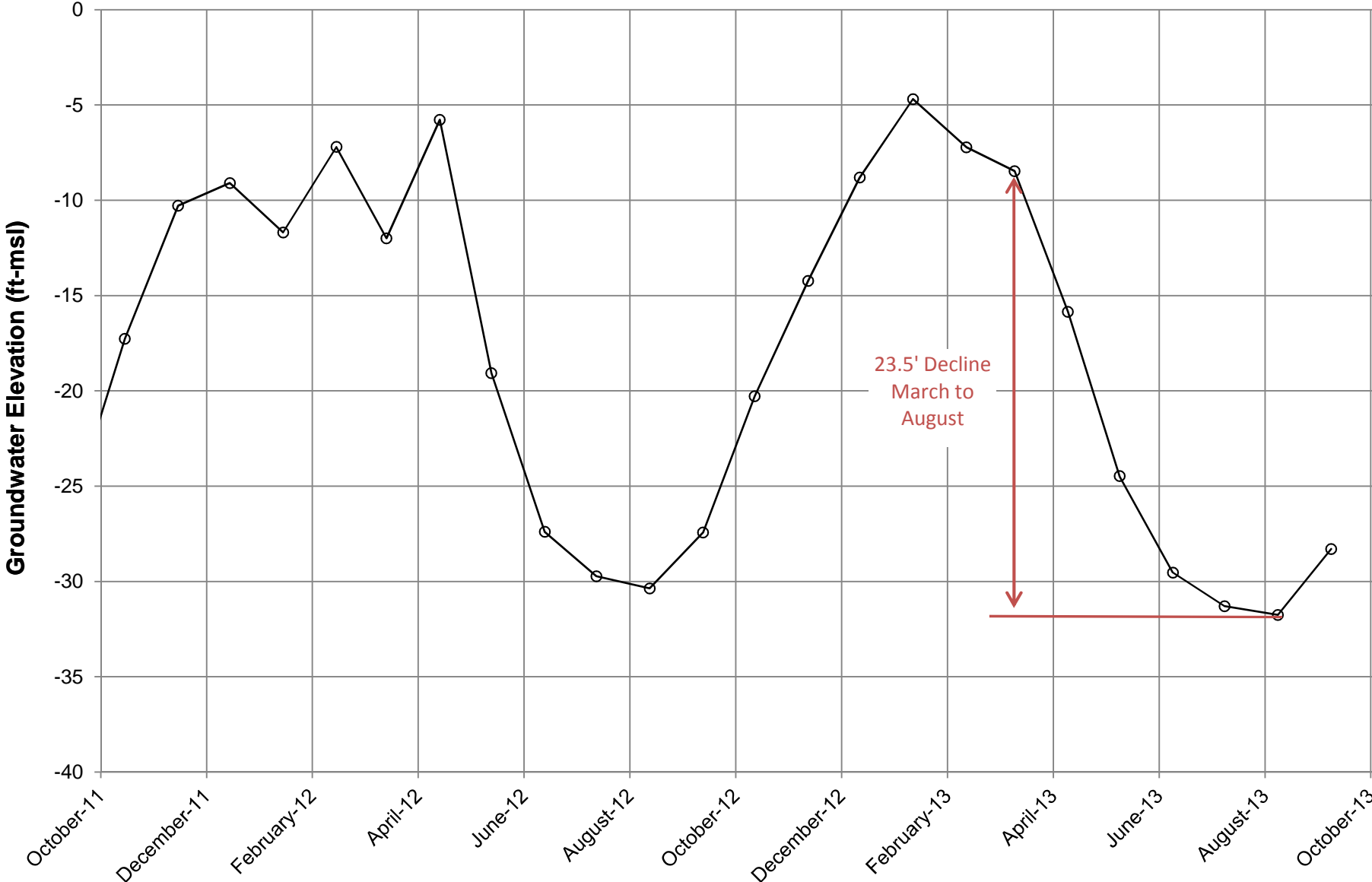
22636 - PRESSURE 180



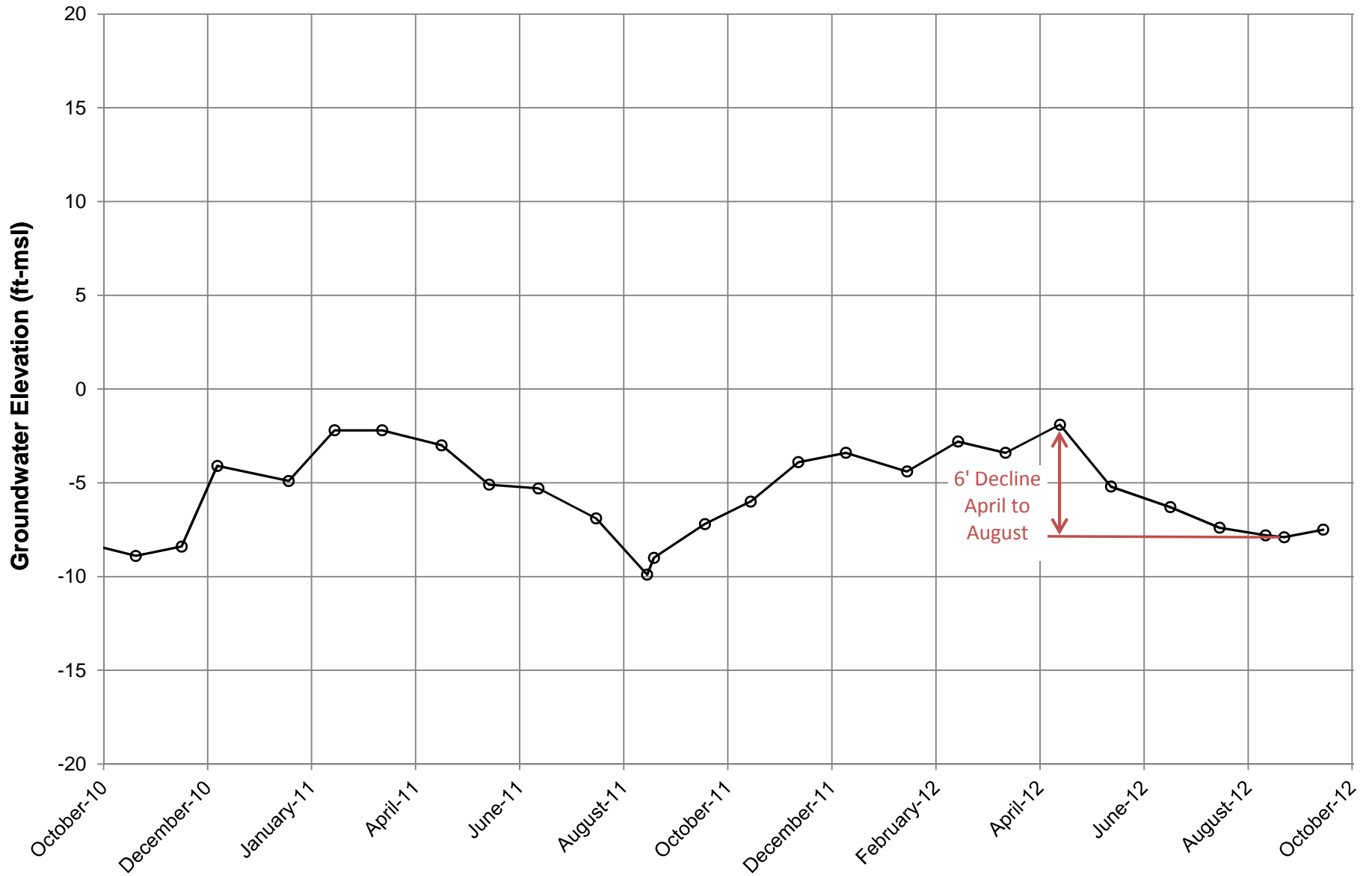
22651 - PRESSURE 180



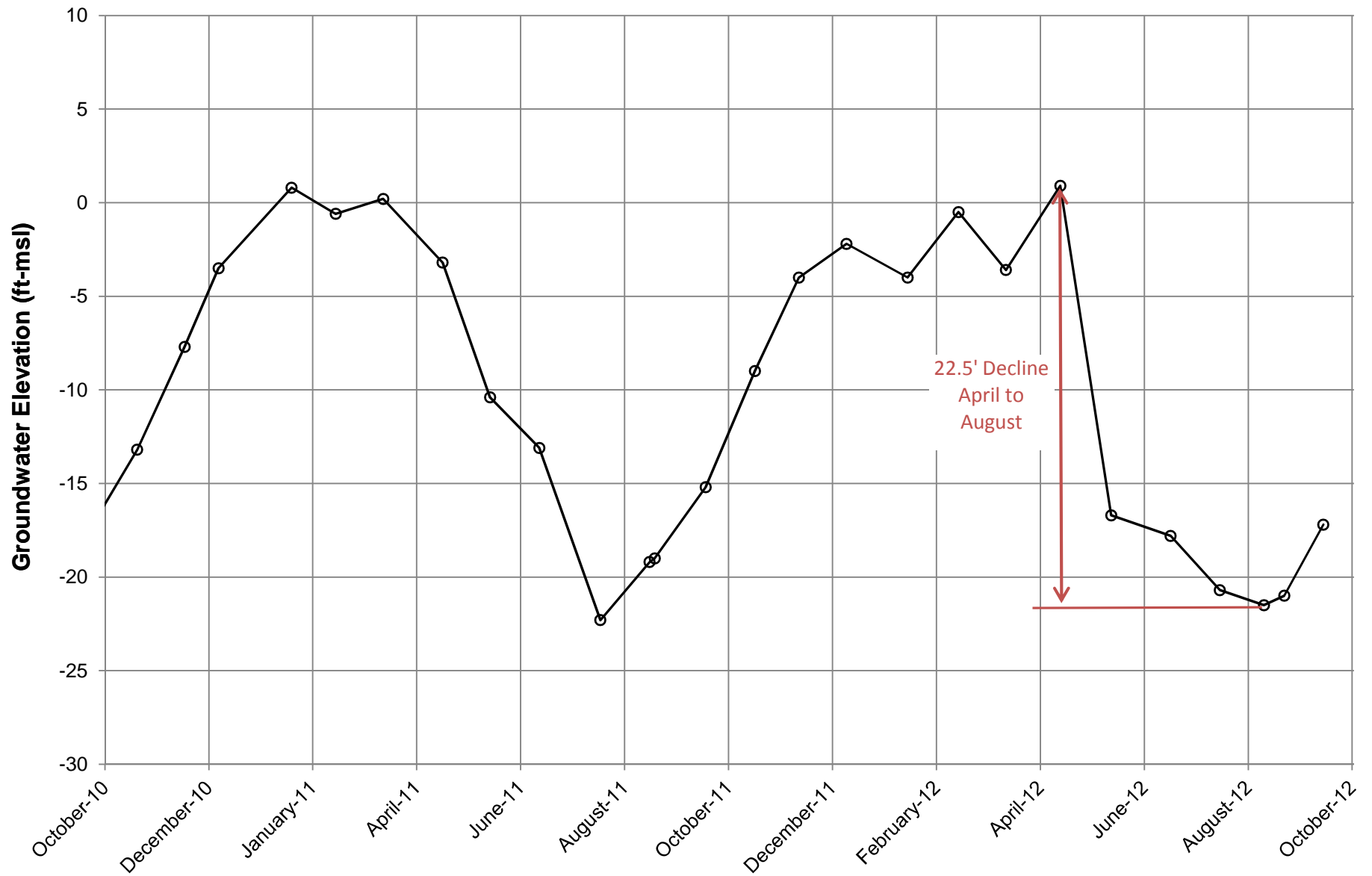
22650 - PRESSURE 180



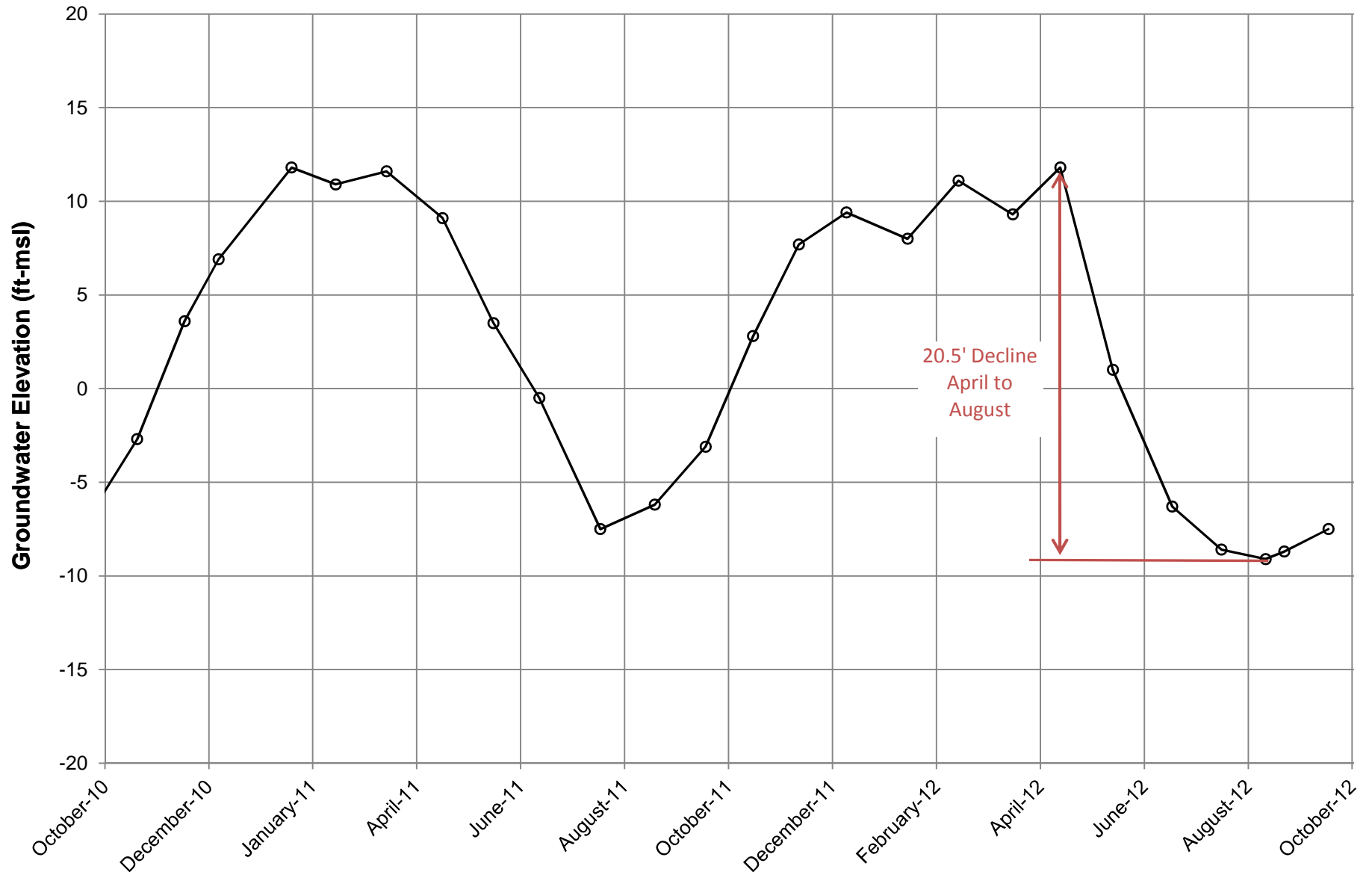
13S/02E-33R01 - PRESSURE 180



14S/03E-31F01 - PRESSURE 180



15S/03E-16M01 - PRESSURE 180



Attachment B – Drawdown Calculations and Water Quality Assessment

Drawdown Calculation Methodology

Due to the occurrence of groundwater level declines on a seasonal basis (March/April to August/September), the measurement of long-term drawdown at monitoring wells from a well that begins pumping in April must use a baseline trend that reflects the regional decline in water levels. With respect to the CEMEX Test Slant Well (TSW) pumping test project, the declining baseline for the monitoring wells can be approximated by drawing a straight line from the pre-pumping static level on April 22, 2015 through the recovery data in late June 2015. In the case of the MW-4 wells, a line through the pre-pumping water levels is extended through the water level data collected during TSW pumping (April 22 to June 5) and after TSW pumping ceased (June 5 to July 1). The difference between this declining baseline and measured water levels at the end of the pumping period (June 5) represents the amount of drawdown that can likely be attributed to the test slant well pumping. This Attachment includes plots showing calculation of drawdowns for MW-1S, MW-1M, MW-3S, MW-3M, MW-4S, and MW-4M.

Furthermore, it should be noted that drawdown will be most noticeable within the first day or two of the Test Slant well pump turning on or off. This is due to the instantaneous change in aquifer stress at the moment a pump is turned on or off compared to the longer time frame for regional declines to influence groundwater levels. For a given monitoring well that is impacted by the TSW, similar responses or offsets in water levels should occur when the well is turned off or on. These responses are obvious in water level data for MW-1S, MW-1M, MW-3S, and MW-3M, as can be observed on the plots included in this Attachment (also see Figures 3 and 4 in the main body of this letter).

The water level data collected to date for MW-4M can also be evaluated using the methods cited above. This well is located in the 180-foot FTE Aquifer and illustrates a maximum potential deviation of 0.25 feet from the line extended from the pre-pumping static water levels through the pumping and post-pumping data. In addition, close inspection of water level data in the day or two after onset of pumping and after pumping ceased also shows a maximum potential change in water levels of 0.25 feet. Thus, two different calculations show a maximum potential drawdown at MW-4M that can be attributed to the Test Slant Well pumping of 0.25 feet. A similar analysis for MW-4S shows less than 0.1 feet of drawdown can be attributed to Test Slant Well pumping.

Evaluation of water level data collected to date for MW-5S and MW-5M clearly indicate no drawdown from TSW pumping at this location. This Attachment includes plots demonstrating the lack of drawdown for MW-5S and MW-5M.

Methodology for Evaluating Changes in TDS

Water quality in the TSW monitoring well network is monitored using transducers with continuous recording of specific conductivity and periodic water quality sampling for laboratory analysis of specific conductivity and total dissolved solids (TDS). When laboratory data are not available, a conversion factor has been established based on data collected for this study to multiply specific conductivity in uS/cm by a formula (provided in the weekly monitoring reports) to obtain TDS in mg/L. The plots of specific conductivity provided in this Attachment indicate that while specific conductivity/TDS in MW-1M are clearly influenced by TSW pumping (as would be expected), there does not appear to be any influence on specific conductivity/TDS at MW-4S, MW-4M, or MW-4D from turning the TSW on or off.

The potential for increase in specific conductivity/TDS should be measured from the MW-4S and MW-4M baseline trend being established with ongoing monitoring. The threshold of 2,000 mg/L TDS increase at MW-4S and MW-4M should be measured from the established baseline trend while the TSW is pumping. Given the potential for transducer instrument drift, the continuous instrument readings of specific conductivity/TDS should be verified with ongoing periodic water quality sample collection and laboratory analysis to confirm any trends and especially any deviations from those trends.

Groundwater Elevation in MPWSP MW-1

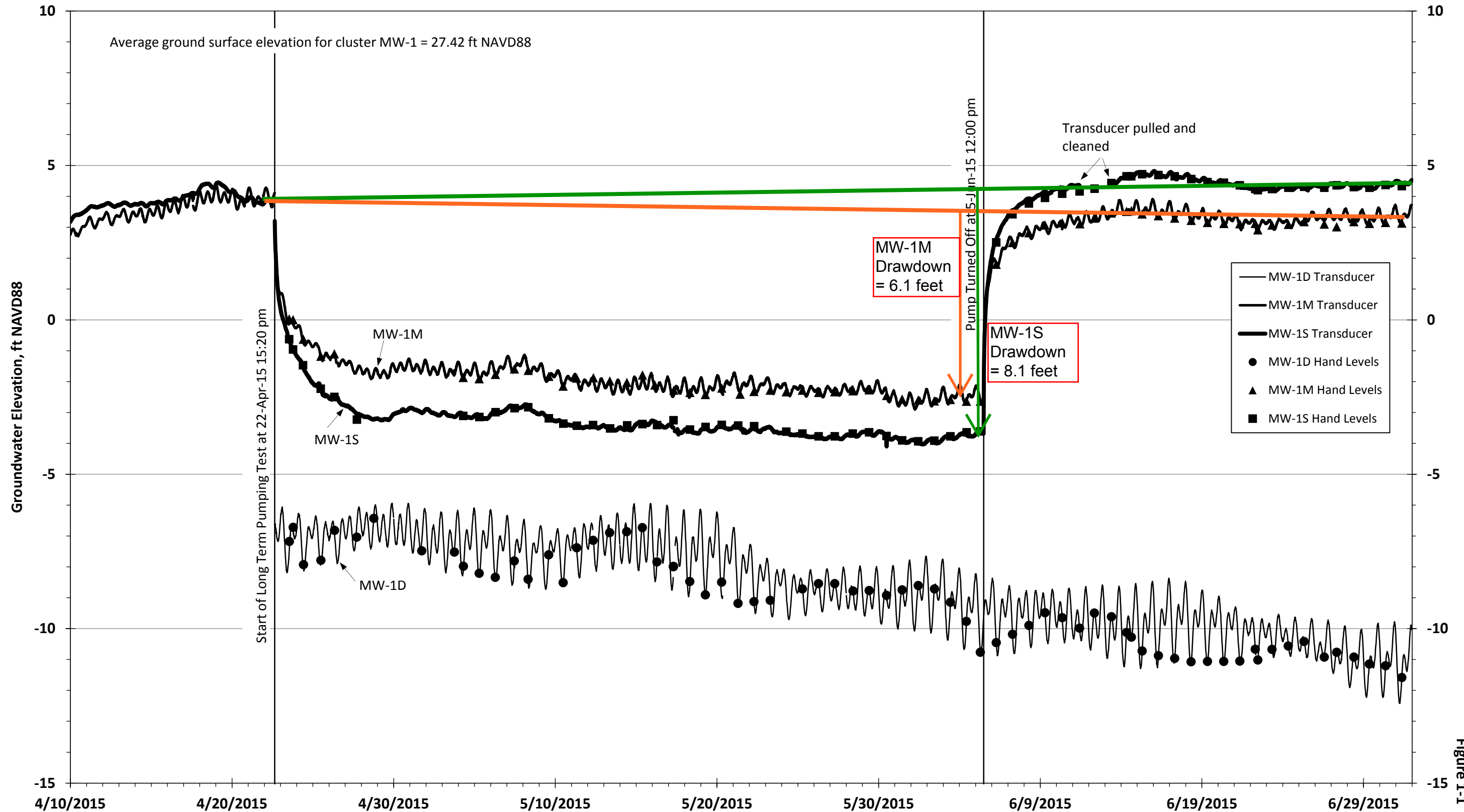


Figure 1-1

Groundwater Elevation in MPWSP MW-3

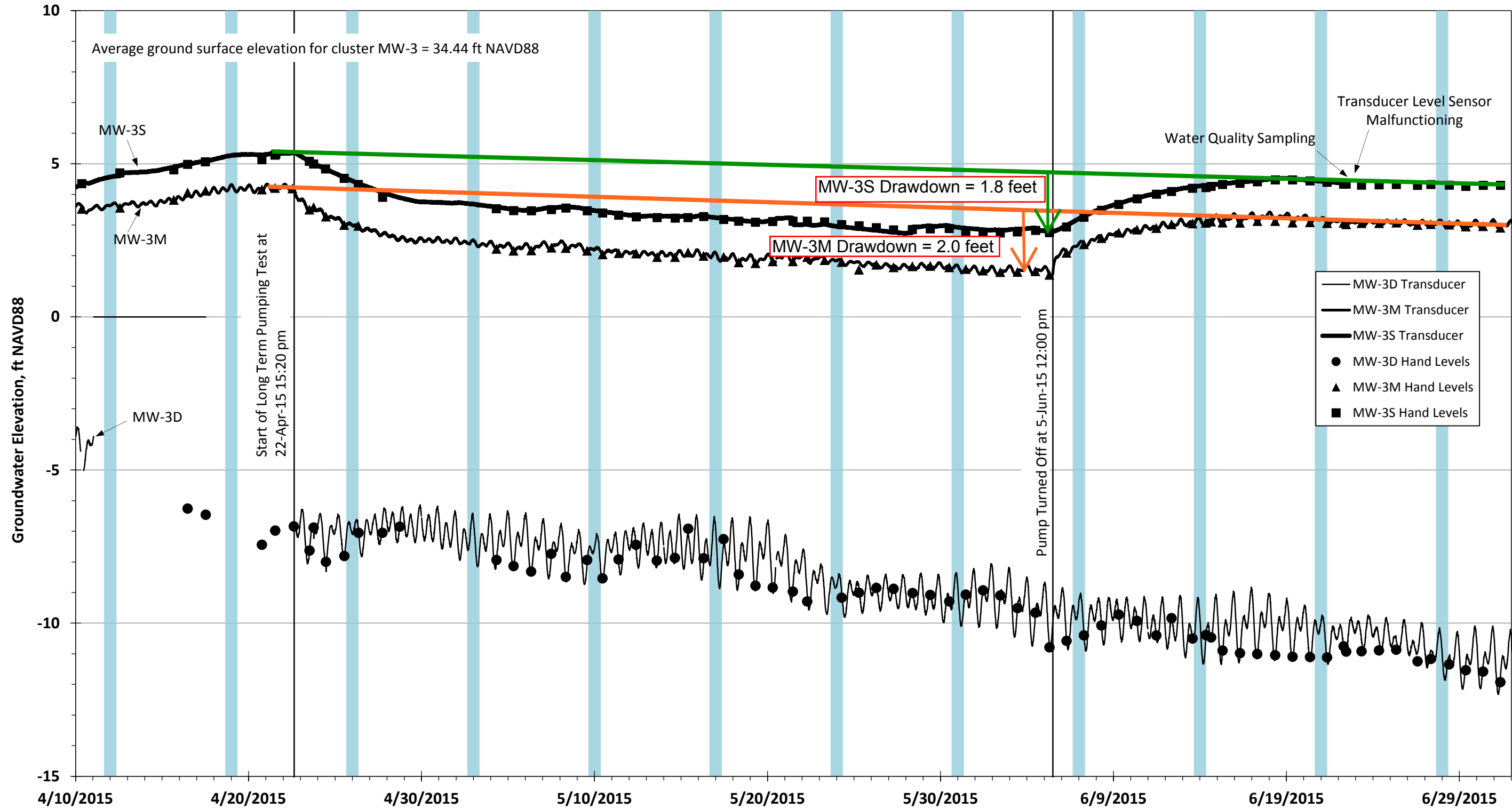


Figure 1-2

Groundwater Elevation in MPWSP MW-4

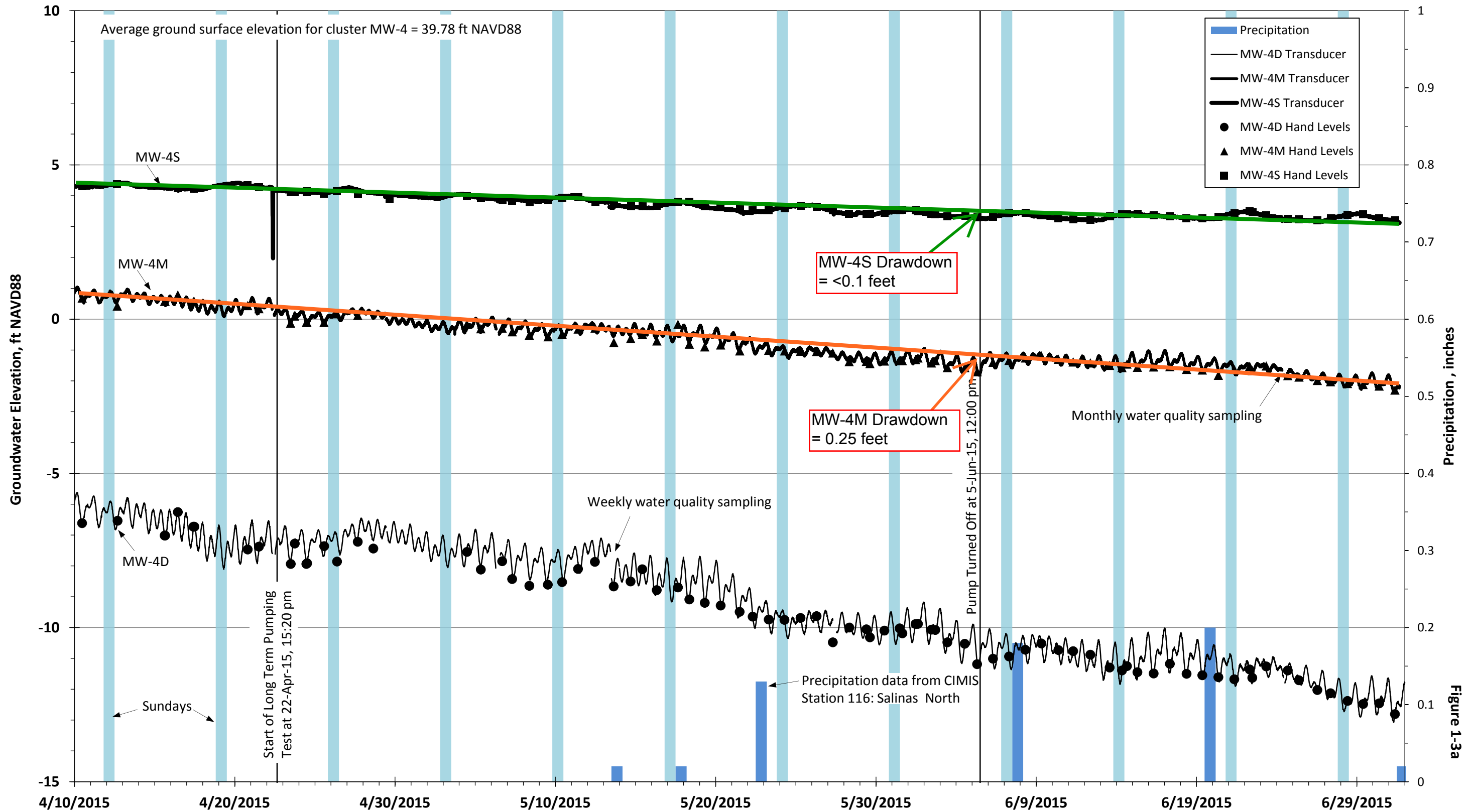


Figure 1-3a

Groundwater Elevation in MPWSP MW-5S

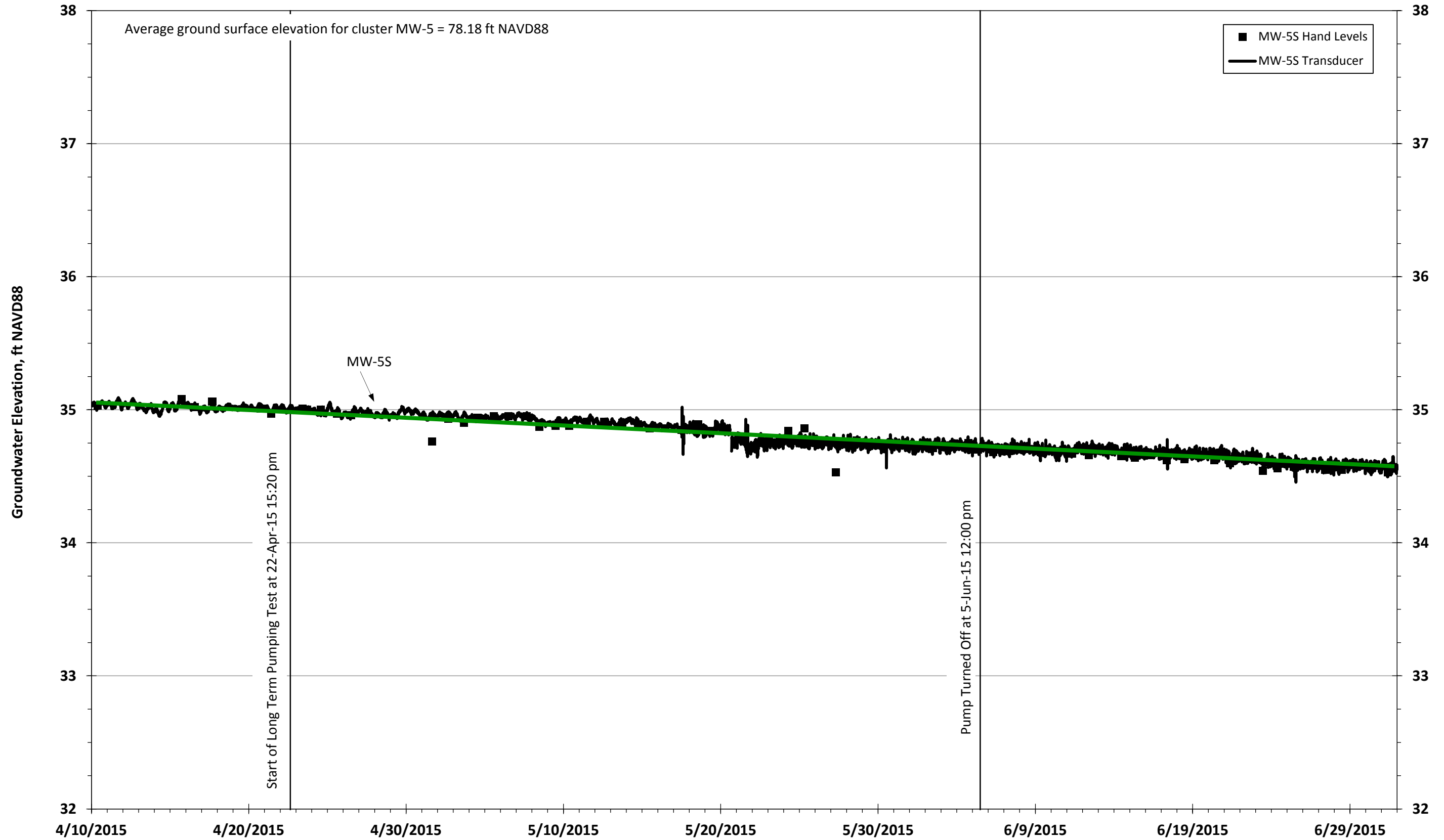


Figure 1-4a

Groundwater Elevation in MPWSP MW-5M and MW-5D

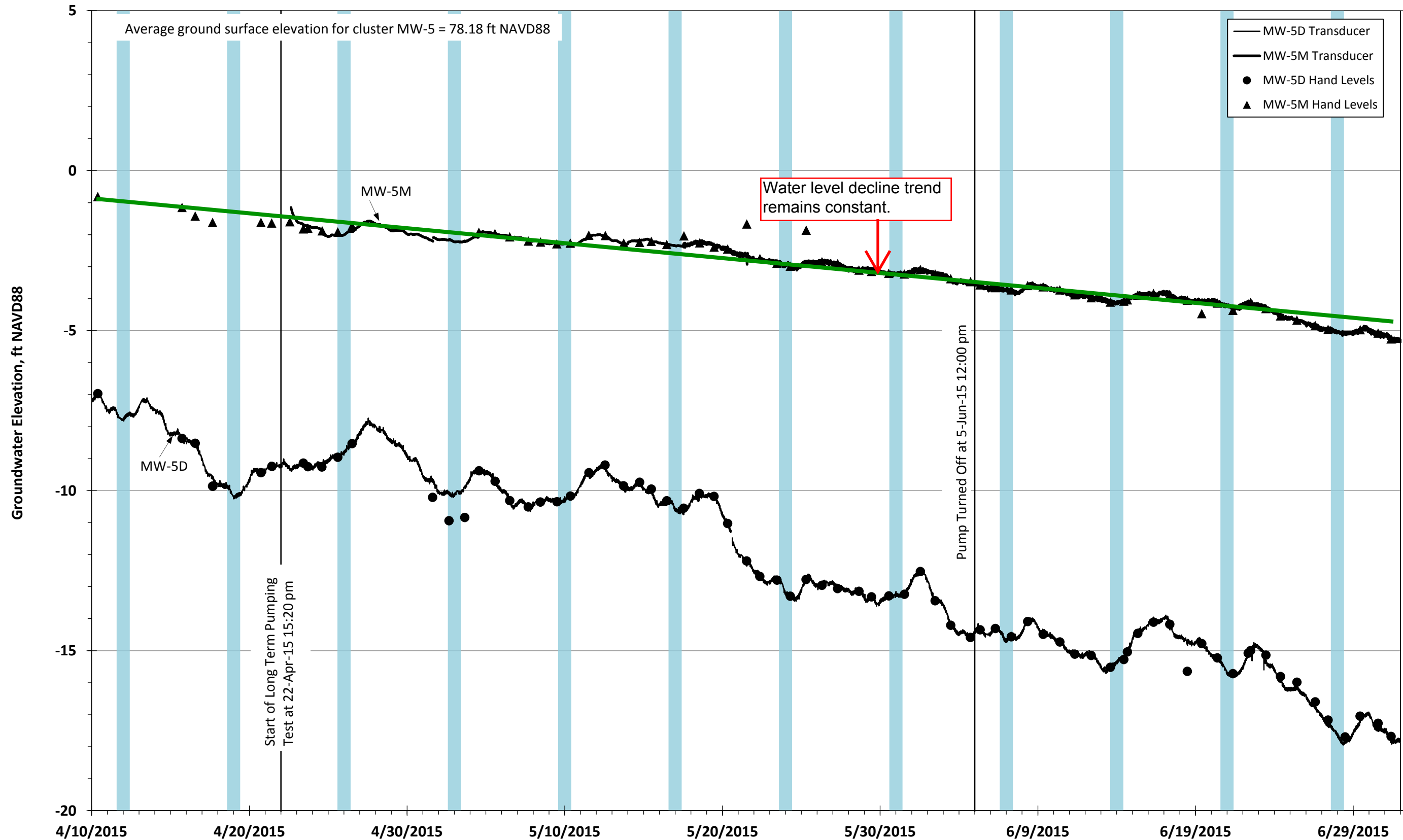
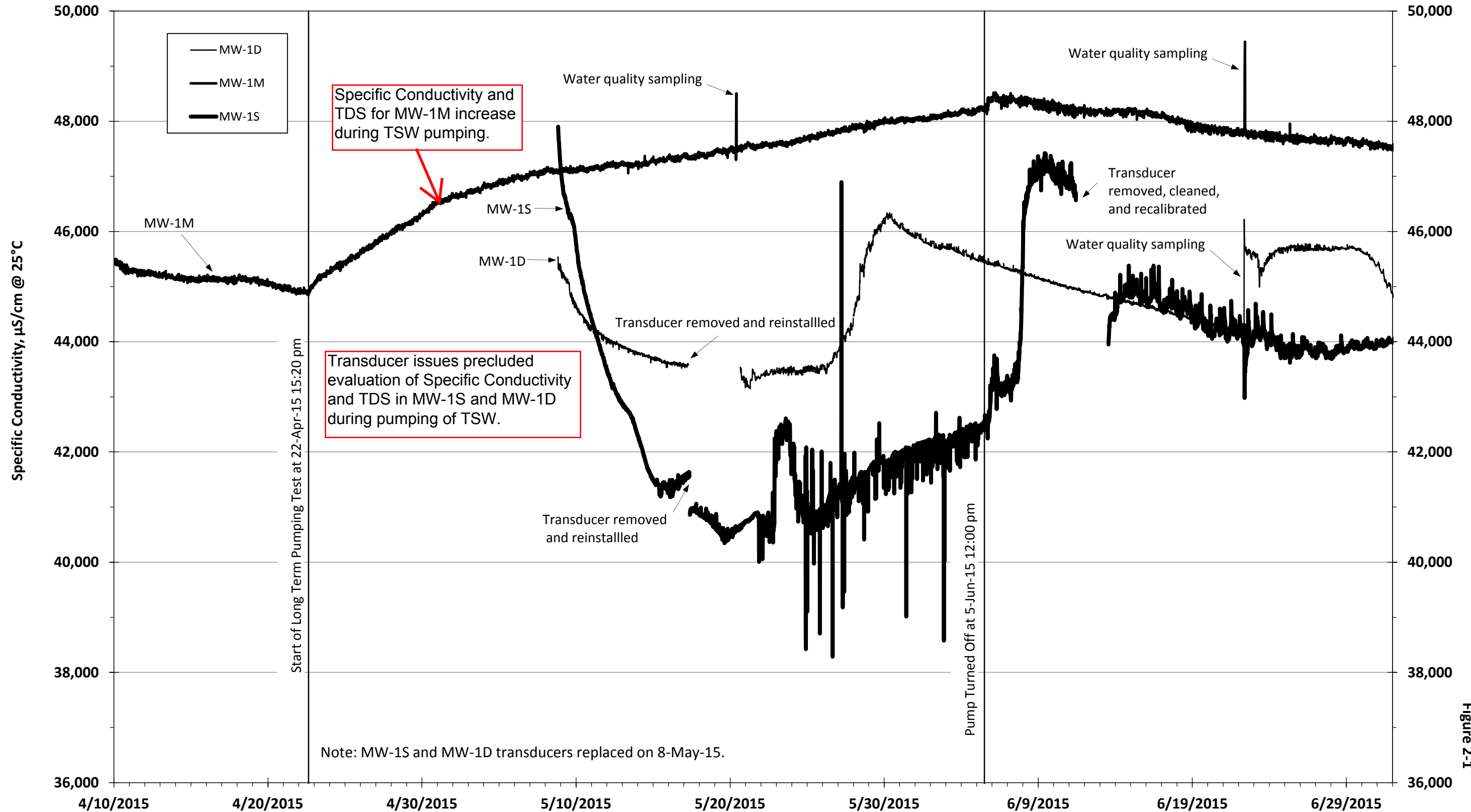


Figure 1-4b

Specific Conductivity in MPWSP MW-1



Note: MW-1S and MW-1D transducers replaced on 8-May-15.

Figure 2-1

Specific Conductivity in MPWSP MW-3

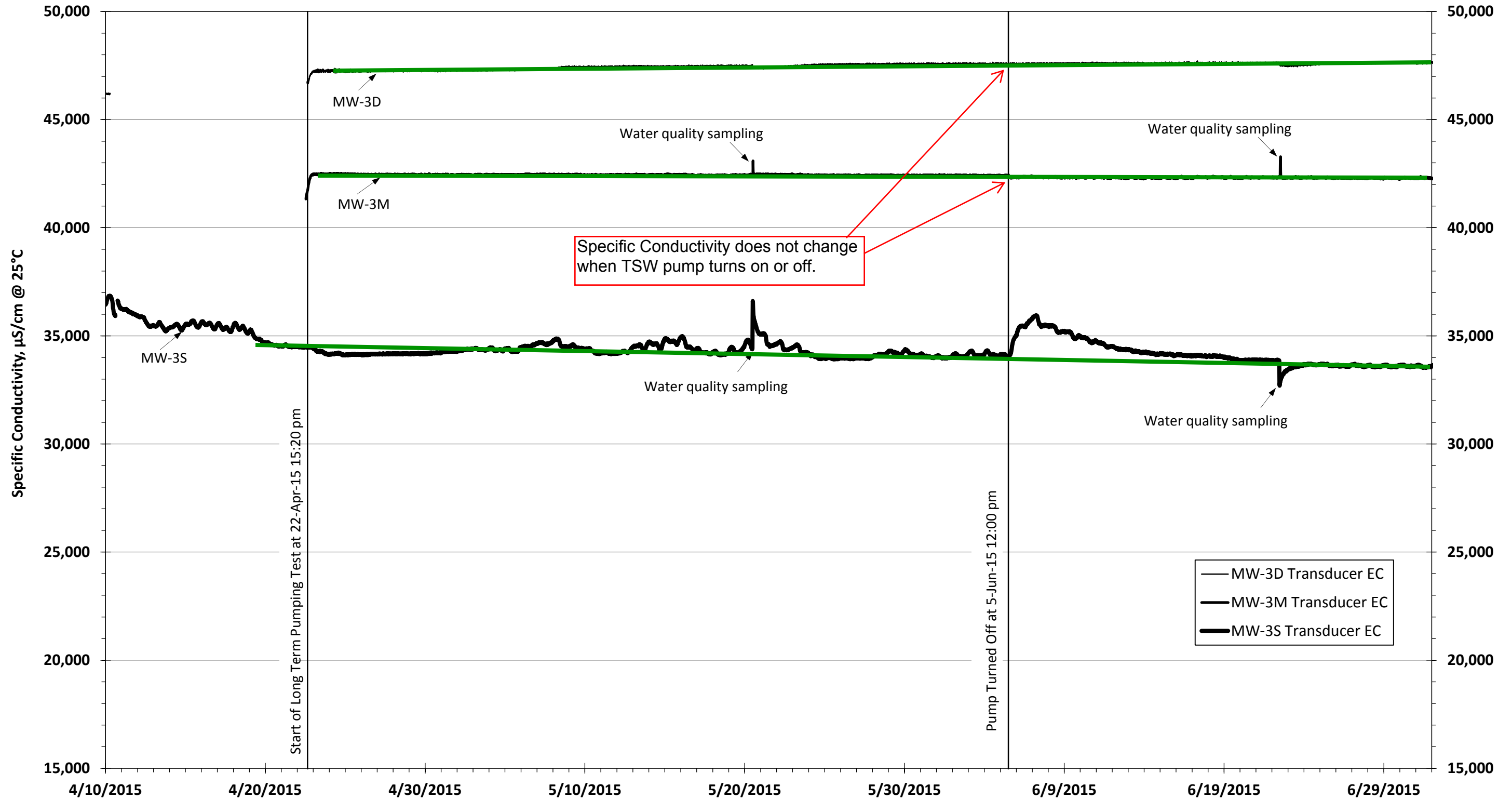


Figure 2-2

Specific Conductivity in MPWSP MW-4

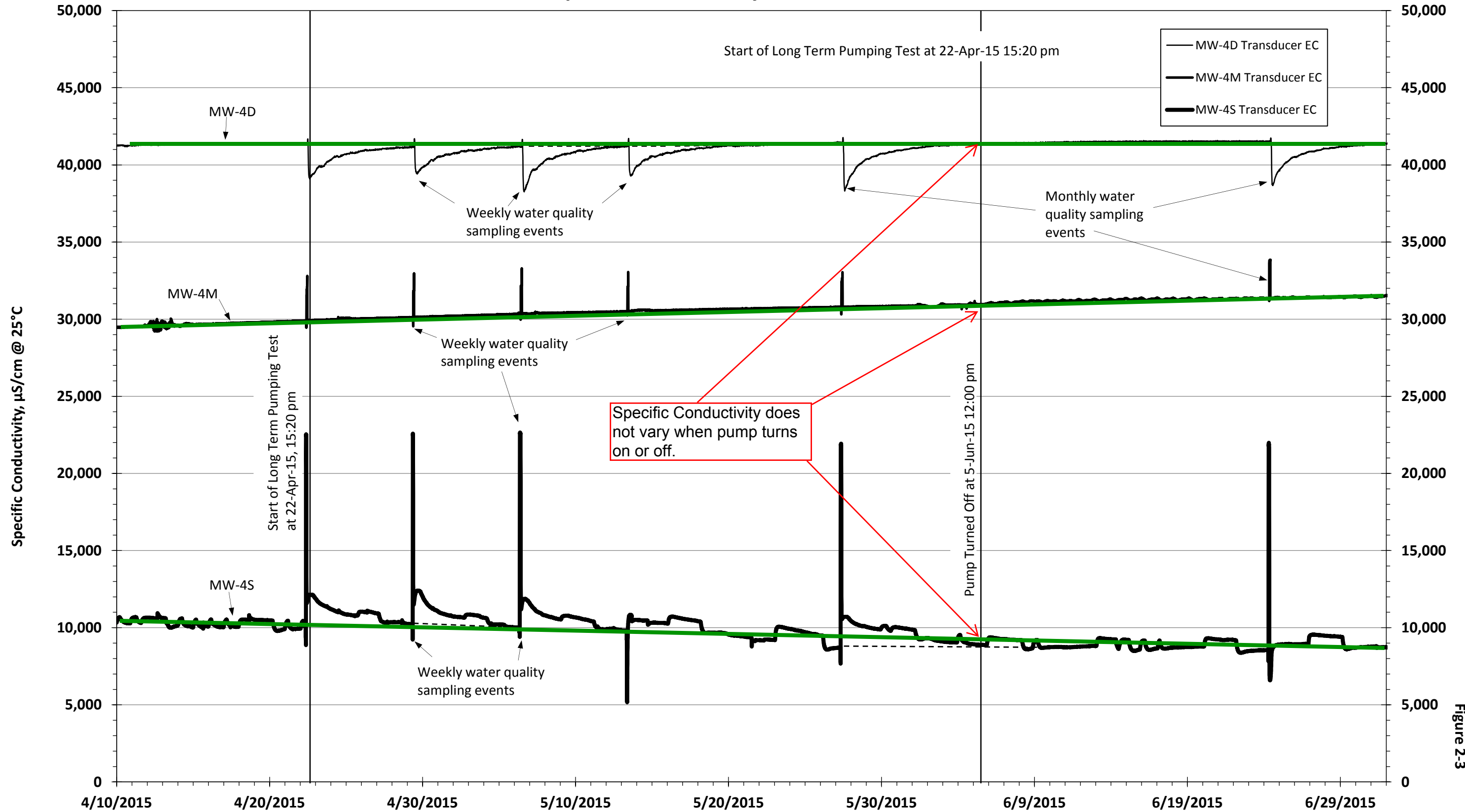
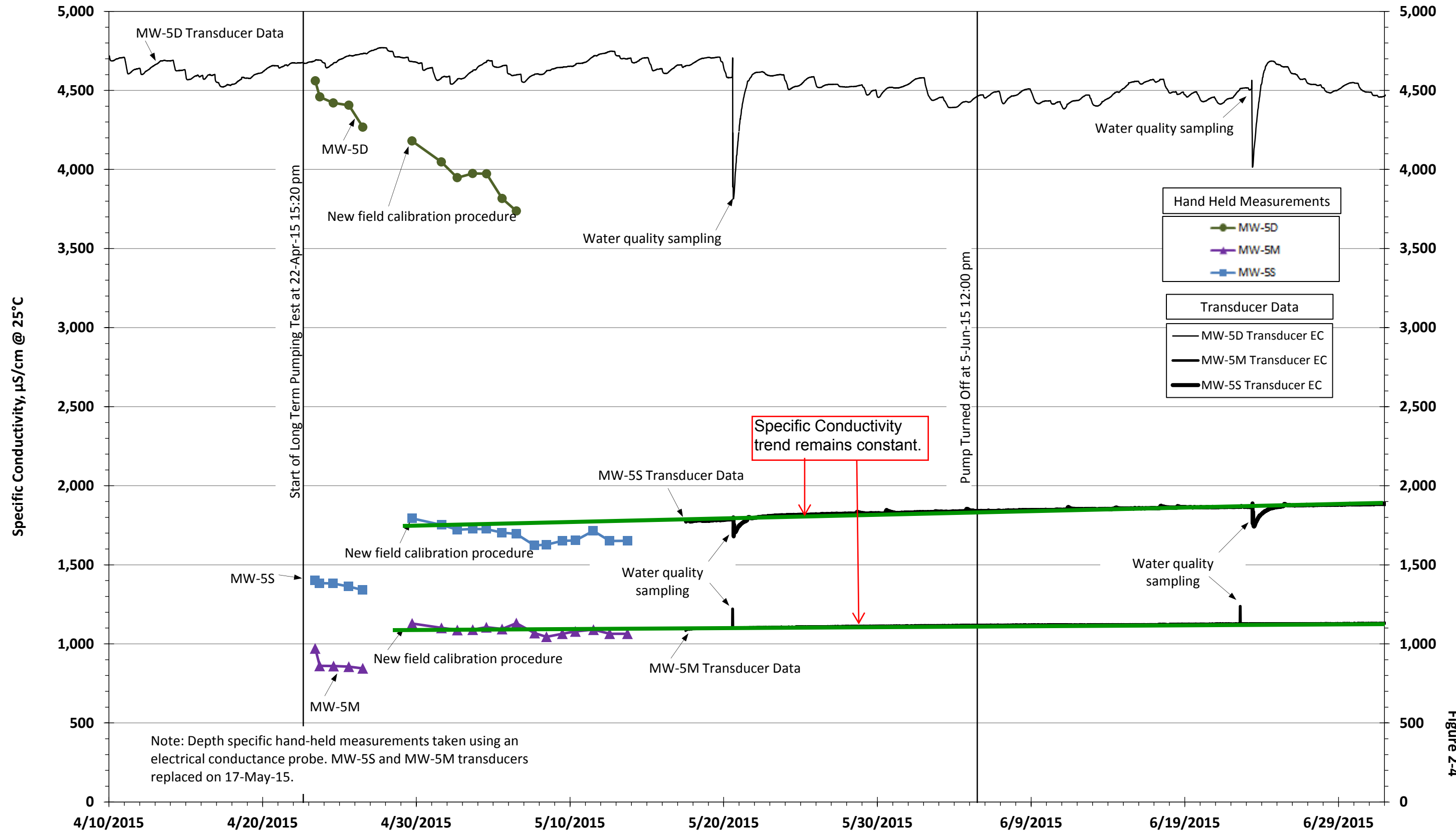


Figure 2-3

Specific Conductivity in MPWSP MW-5

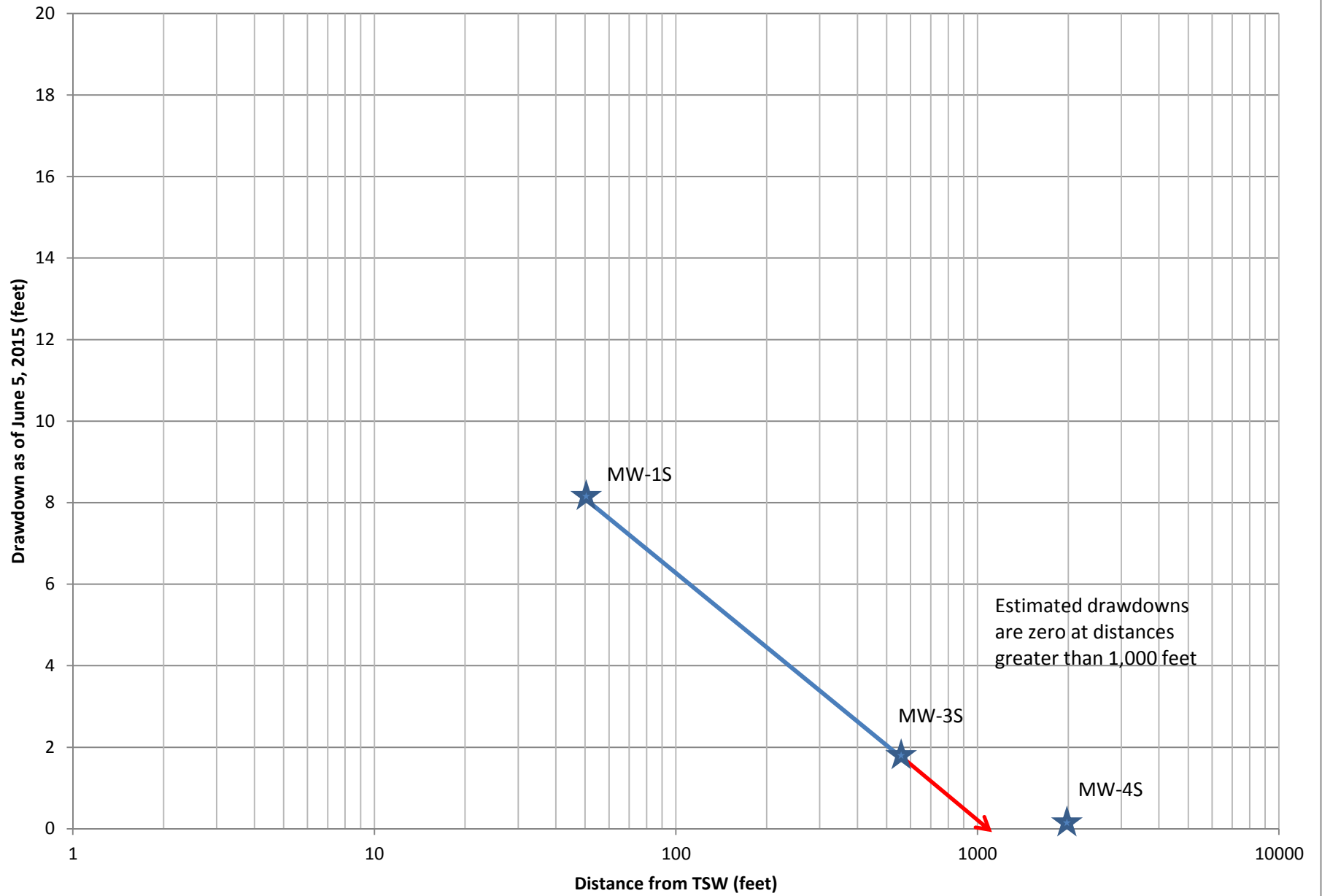


Note: Depth specific hand-held measurements taken using an electrical conductance probe. MW-5S and MW-5M transducers replaced on 17-May-15.

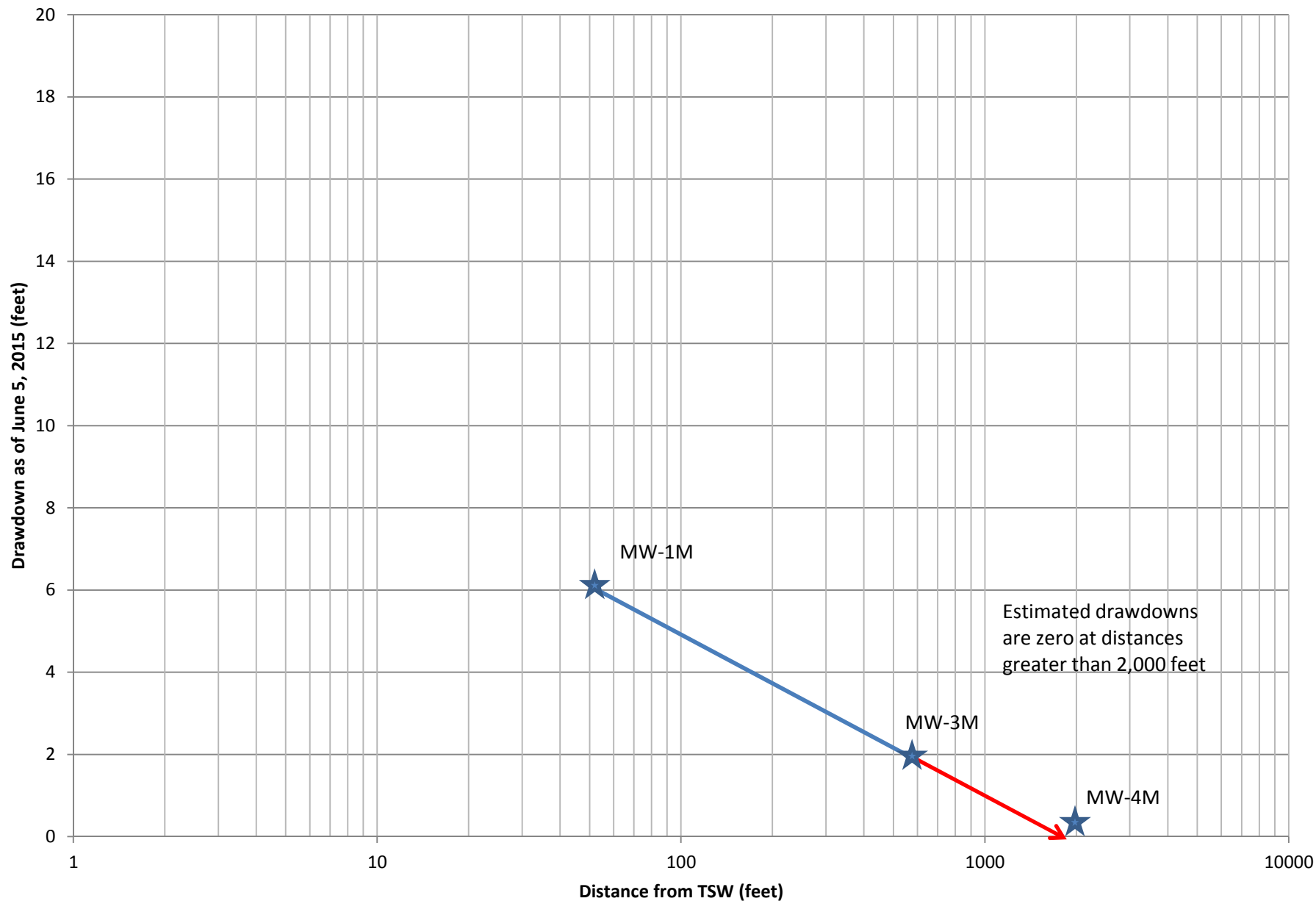
Figure 2-4

Attachment C – Distance Drawdown Plots

Dune Sand Aquifer Distance-Drawdown Plot



180-FTE Aquifer Distance-Drawdown Plot



Attachment D – Responses to Hopkins Groundwater Consultants Letter

Responses to Hopkins Groundwater Consultants (Hopkins) Letter dated June 25, 2015 are provided below. The format provides Hopkins comment (in bold/italics) followed by the HWG response. The numbering of the comments was done by the HWG to facilitate organization of this response to comments. It should be noted that many of the flawed statements made in the Hopkins Letter could be attributed to not having all the monitoring data that are now available to show that previous HWG conclusions were correct.

- 1) Page 1, first paragraph. *“Based on the information provided to date in the HWG memos, it does not appear it can be reasonably disputed that the 1.5 compliance level has been exceeded at MW-4 in the 180-foot (or middle) aquifer and the drop in water levels (from pre-pumping conditions) was caused at least in part, if not mostly, by the test well.”***

Additional data provided in this letter demonstrates that the drop in water levels from pre-pumping conditions at MW-4 was caused virtually entirely by the seasonal decline in water levels, and not by pumping of the Test Slant Well. The details of the additional data presented with this letter and how they demonstrate the main cause is seasonal decline are described in this letter and are reiterated in specific responses to Hopkins comments below.

- 2) Page 1, second paragraph. *“...without long-term monitoring of local groundwater conditions (baseline conditions) it is virtually impossible to determine whether changes in aquifer water levels are caused by any factor other than the test slant well pumping.”***

As demonstrated in the current letter, determination of drawdown from Test Slant Well pumping (see Attachments B and C) is relatively straight forward and easy to calculate unless the drawdown is minimal (i.e., less than about 0.3 feet). Because only a drawdown nearing Special Condition 11’s 1.5 foot performance standard requires a causation determination, the potential difficulty in calculating the Test Slant Well’s contribution to lesser drawdowns will not impact the HWG’s required causation determinations.

- 3) Page 1, second paragraph. *“Despite the HWG’s apparent “consensus” belief that there may be other causes for declines in pre-pumping water levels at MW-4, the HWG has not provided evidence of any other likely causes for the decline.” And “...it conflicts with statements in the Coastal Commission’s Staff Report and findings that there are no active groundwater pumping wells in the Project area.”***

The HWG has provided an abundance of evidence in this letter for seasonal water level declines being the main, if not entire, cause of water level declines at MW-4 (see main body of letter and Attachment A). The hydrographs provided in Appendix A show how the seasonal decline in the 180-Foot Aquifer progresses from its maximum near the City of Salinas (over 20 feet of decline) to lesser amounts near the coast (4 to 6 feet) (i.e., a progression of lesser seasonal declines further away from the concentration of pumping). The prominence of seasonal declines is apparent in the 180-Foot Aquifer all the way from the City of Salinas to the coast.

It is well understood that pumping from inland wells causes seawater intrusion in the 180-FTE Aquifer by impacting water levels in coastal areas, such as the CEMEX site. Without such impacts, seawater intrusion would not occur. Yet the flow of water from the ocean continues to the present day, even though the concentration of pumping wells is several miles inland. Clearly, the pumping of wells several miles inland causes water levels to decline at the coast.

The main reason that the pumping of wells several miles inland impacts MW-4 substantially more than the test slant well located 2,000 feet away on the beach is two-fold: a) the cumulative pumping of all the inland wells is far in excess of the 2,000 gpm being pumped from the test slant well, and b) the ocean acts as a major recharge boundary to the test slant well but not the inland wells. The significance of this second point is critical to understanding the water level fluctuations at MW-4.

The presence of the ocean recharge boundary results in the following: a) within a day or two of the onset of pumping virtually all the water being pumped from the test slant well derives from the ocean-side of the well, at which point the cone of depression begins to stabilize and drawdown at a given location such as MW-4 essentially ceases to decline further; b) given the location of inland pumping wells being several miles from the ocean recharge boundary, the overlapping cones of depression from all these inland pumping wells continue expanding until reaching basin boundaries – thereby resulting in seasonal basin water level declines throughout the entire basin up to the coastline. The discussion above is based on very basic, fundamental hydrogeologic principles found in any groundwater textbook (Freeze and Cherry, 1979; Todd, 1980; Fetter, 1994; Kruseman and de Ridder, 1994; Heath, 1983).

- 4) Footnote at bottom of Page 1. “Notably, any active agricultural wells in the 180-foot aquifer would be at least twice as far away as the slant well and pumping considerable less water. Therefore, the slant well is much more likely to be the cause of drawdown at MW-4 than any agricultural wells.**

As explained throughout this letter, the seasonal water level declines are not due to one or a few particular inland pumping wells, but rather the cumulative effect of tens to hundreds of inland municipal/agricultural/industrial/domestic pumping wells. The cumulative pumping of these inland wells is considerably greater than the pumping from the Test Slant Well. In addition, the Test Slant Well is immediately adjacent to a major recharge boundary (the Ocean) that provides the major source of water to the Test Slant Well, whereas the inland pumping wells have no such recharge boundary. Therefore, wells pumping at inland locations have much more widespread impacts than the Test Slant Well.

- 5) Bottom of Page 1 and top of Page 2. The HWG “...ignores all the monitoring data for the slant well prior to April 10, 2015...”**

Previous HWG letters focused on the pre-pumping time period from April 10 to April 22 at MW-4 since this time period was adequate to establish the pre-pumping regional water level trend. The April 10 to April 22 period was deemed adequate for this purpose based on review of the

water level trends in various wells before and after this time frame. However, additional evaluation of pre-pumping monitoring well water level data prior to April 10 is provided in this letter and in our response to Hopkins' Comment 6 below.

- 6) **Pages 2 and 3.** *“...we would note that it is our opinion that most of the 1.6 foot drawdown in the 180-foot aquifer at MW-4 between April 17 and June 5, 2015 is likely due to the test well.” This comment by Hopkins was based on the following: a) “...three weeks prior to commencement of long term pumping shows that water levels in the 180-foot aquifer at MW-4 were largely flat other than a small decline during the 5-day Constant Pumping Test and subsequent increase in water level after the 5-day test stopped, followed by a small decline to prior levels.”; b) “...monitoring data for the 180-foot aquifer at MW-5 further supports the conclusion that most, if not all of the declines at MW-4 are likely attributable to the test well.”; c) “...monitoring data shows that water levels have declined somewhere between 2 and 3 feet from pre-pumping conditions at MW-4 in the 180-foot aquifer.”*

It is not clear why this comment references the data of April 17 when the long-term test started on April 22.

A comparison of the decline in groundwater levels at wells MW-4M and MW-5M prior to commencement of the long-term pumping test on April 22 is provided in the table below. As indicated in the table, both wells show significant declines in water levels prior to April 22. The rates of decline shown in the table below are in very close agreement with Table 1 in the main body of the current HWG letter, which shows overall declines in these two wells from March 9/10 to July 1. The fact that declines are greater in MW-5M than in MW-4M is due to the closer proximity of MWS-5M to the concentration of pumping wells in the 180-Foot Aquifer, as explained in detail in our letter.

| Well | March 9 Groundwater Elevation (ft. NAVD88) | April 22 Groundwater Elevation (ft. NAVD88) | Net Decline (feet) | Rate of Decline (feet/day) |
|-------|---|--|-----------------------|-------------------------------|
| MW-4M | +1.55 | +0.3 | 1.25 | 0.028 |
| MW-5M | +0.5 | -1.7 | 2.2 | 0.050 |

Based on the monitoring well water level data collected through July 1, the logic and discussion provided on pages 2 and 3 of the Hopkins Letter is flawed and incorrect. The rates of decline in water levels in MW-4M before, during, and after pumping of the Test Slant Well were similar. Any argument for drawdown being observed in MW-4M between April 22 and June 5 from pumping of the Test Slant Well can't be more than about 0.25 feet, as previously stated by the HWG. For all practical purposes, the drawdown in MW-4M is so small as to be indistinguishable from the daily tidal fluctuations in the data and can be considered negligible.

- 7) **Footnote at bottom of Page 3.** *“...averaging the level of decline in each aquifer at MW-4 to determine whether Condition 11 is triggered is improper given the different confinement levels*

in the Dune Sand (unconfined), 180-foot (semi-confined), and 400-foot aquifers (confined).” And “...this differs from the assumptions made in the modeling for the Project, which was based on the assumption that the 180-foot aquifer was unconfined in the Project area (i.e. no aquitard). As a result, the test well’s impacts on the 180-ft aquifer will be significantly larger than predicted in the project’s modeling and drawdown conclusions.”

Averaging of drawdowns (due to Test Slant Well pumping) in the MW-4S (Dune Sand Aquifer) and MW-4M (180-FTE Aquifer) for comparison to the performance standard of 1.5 feet is appropriate for the following reasons: a) The Dune Sand Aquifer and 180-FTE Aquifer beneath the CEMEX site are not separated by a thick continuous clay layer (aquitard), b) the Dune Sand Aquifer (represented by MW-4S) and 180-FTE Aquifer (represented by MW-4M) at the CEMEX site are in hydraulic communication due to the lack of a separating aquitard, c) pumping just from the Dune Sand Aquifer at the CEMEX site will cause a water level response at nearby monitoring wells screened in the 180-FTE Aquifer, and pumping just from the 180-FTE Aquifer at the CEMEX site will cause a water level response at nearby monitoring wells in the Dune Sand Aquifer, d) the Test Slant Well is screened in (and pumps water from) both the Dune Sand Aquifer and the 180-FTE Aquifer. Given the facts that the Dune Sand Aquifer and 180-FTE Aquifer are not isolated beneath the CEMEX site and the Test Slant Well is screened in both aquifers, an averaging of drawdowns in MW-4S and MW-4M due to Test Slant Well pumping is the most appropriate value to use for comparison to the 1.5 foot performance standard.

The comment regarding the modeling is addressed in Response to Comment 17. Furthermore, it should be noted that the Salinas Valley Aquitard that overlies the 180-Foot Aquifer at inland well locations is not present beneath the CEMEX property. Thus, the shallow (Dune Sand) aquifer is in hydraulic communication with the 180-FTE Aquifer beneath the CEMEX site, whereas this is not the case further inland where the Salinas Valley Aquitard is present between the shallow aquifer and 180-Foot Aquifer. Again, Hopkins is making passing comments on the DEIR modeling effort, which is not the subject of Special Condition 11.

- 8) Footnote at bottom of Page 3. *“The Geoscience technical memorandum entitled MPWSP Baseline Water and Total Dissolved Solids Levels Test Slant Well Area...does not identify what groundwater and TDS levels should be used as the pre-pumping/baseline for the monitoring wells. It is unclear how and why the HWG selected groundwater and TDS levels from April 10, 2015 as representative of pre-pumping conditions, when this date was only 2 days after the end of the 5-day Constant Rate pumping test.”***

Based upon monitoring data collected through July 1, it is apparent that baseline water and total dissolved solids levels need to also account for regional groundwater trends since April 10. These regional groundwater level and salinity trends are described and quantified throughout the current HWG Letter. In addition, methods to calculate drawdown and salinity values for comparison to performance standards in Special Condition 11 are also provided in the current HWG letter. Accordingly, while groundwater and TDS levels on April 10, 2015 represent baseline levels at a single point in time, the baseline levels are constantly changing due to sources other

than the Test Slant Well. As discussed in the body of the HWG Letter, it is therefore more appropriate to measure the Test Slant Well's effects against regional groundwater and TDS trends.

9) Page 4. "While we do not have sufficient time or data (as the underlying data for the HWG reports has not been provided) to fully peer review both HWG reports..."

From the start of the project and prior to onset of the long-term constant rate Test Slant Well pumping test on April 22, HWG reports and groundwater monitoring data have been posted on the Project web site, including weekly updates to the monitoring data. These reports and groundwater monitoring data provide sufficient information for peer review.

10) Page 4, first bullet point. "The HWG Baseline Report's suggestion that if water levels don't fully recover at MW-4 after a shutdown is evidence that the test well did not cause any recorded decrease in water levels is not scientifically supportable. Given the on-shore gradient in the 180-foot aquifer at this location any recovery water would need to come from the ocean-side of the monitoring wells and may only occur over an extended period, if at all. Moreover, given the lack of baseline information, the only reasonable method to infer whether the test well is not causing an impact is if the same trends continue after the test well is shut-off. As noted above that did not occur in the 180-foot aquifer at MW-4."

The discussion and logic provided by Hopkins in this first bullet point defies basic hydrogeologic principles. Every well is located in an aquifer with a regional hydraulic gradient driving the overall flow of groundwater in a particular direction. As pointed out here by Hopkins, there is a landward (east-southeast) flow of water at MW-4M. Hopkins appears to be implying that the Test Slant Well cone of depression would only experience water level recovery on the side of the well in the up-gradient direction. The HWG would refer the reader to any basic groundwater textbook to show this logic is flawed (Freeze and Cherry, 1979; Todd, 1980; Fetter, 1994; Kruseman and de Ridder, 1994; Heath, 1983). Recovery of water levels caused by pumping of a given well would be expected in all directions around the pumping well, after accounting for the regional rise/decline in water levels (and possibly for anisotropic aquifer conditions for some wells).

Furthermore, Hopkins makes the statement here that the, "...only reasonable method to infer whether the test well is not causing an impact is if the same trends continue after the test well is shut-off. As noted above, that did not occur in the 180-foot aquifer at MW-4." The data presented in this letter (through July 1) and discussion provided above for Comment 6 shows that, in fact, the same trends occur in MW-4M before, during, and after pumping of the Test Slant Well.

11) Page 4, second bullet point. "The June 22, 2015 HWG memo (at p. 3) states water levels in the 180-aquifer at MW-4 from May 28th to June 17th were relatively flat. This statement misrepresents the actual data that shows water levels continued to decline from May 28th

until pumping ceased on June 5, and then recovered to the approximate levels they were at on May 28th ...”

The HWG was pointing out in our June 22 memo that there are short-term periods where the rate of decline in water levels may fluctuate, some periods being flatter than others, possibly in response to rainfall, which may affect basin pumping rates over the short term. However, with the data collected through July 1 that was incorporated and analyzed throughout this letter, the overall trends after pumping are clear and support previous conclusions by the HWG.

Overall, the rate of water level decline is less between May 28th and June 17th than observed prior to May 28th or after June 17th. However the dates of May 28th and June 17th are not related to the Test Slant Well turning on or off. Therefore, the changes in the slope of the water level declines at MW-4M do not correspond to the Test Slant Well turning on or off, but rather other factors related to seasonal water level declines that are influenced by rainfall events and fluctuations in cumulative inland groundwater pumping.

12) Page 4, third bullet point. “The June 22, 2015 HWG memo (at p. 4) states “Even after stopping pumping, MW-4 continues to decline in response to regional pumping inland.” Not only is this inconsistent with the HWG’s statement above that water levels were relatively flat from May 28th to June 17th, it again misrepresents the actual data showing water levels recovered after pumping ceased. Thus, the HWG’s suggestion that water levels have “continued” to decline cannot be defended.”

This comment is addressed in the response to Comment 11 above. Furthermore, the post-pumping regional water level decline resumes a steeper descent from June 17th to July 1st. Again, post-pumping data through July 1 demonstrate that water levels at MW-4 did not show any significant recovery after Test Slant Well pumping ceased, but rather the overall post-pumping water level decline is very similar to the pre-pumping water level decline. As described previously by the HWG, the drawdown and recovery in water levels at MW-4M does not exceed 0.25 feet in any reasonable analysis of the data.

13) Page 4, fourth bullet point. The HWG June 22, 2015 memo states under a “worst case scenario” relating to factors/causes of the regional water level declines and slight changes in the downward trend of those declines (i.e. not caused by changes in inland pumping or outside influences), it seems clear from the data collected so far that if there is any drawdown at MW-4S and/or MW-4M – it is less than 0.5 feet and probably closer to 0.2 to 0.3 feet. Given an allowable drawdown of 1.5 feet, the water levels are well within the allowable limit.” As explained above this statement is not consistent with the full set of monitoring data, which demonstrates most if not all of the 1.6 foot drawdown at MW-4 between April 17 and June 5, 2015 is likely due to the test well. “

Again, it is not clear why Hopkins is referring to April 17 in this comment as opposed to the April 22 start date of the long-term Test Slant Well pumping test.

As explained throughout this Response to Hopkins' Comments, Hopkins analysis and conclusions are flawed and incorrect. Furthermore, as demonstrated throughout this letter and by using multiple methods of calculation (e.g., Attachments B and C, and Response to Comment 6), the drawdown in MW-4M from the Test Slant Well pumping is negligible, and the decline in water level observed is a result of regional groundwater elevation trends due to other sources.

14) Bottom of Page 4. *"It is worth noting that while the baseline data are insufficient to understand groundwater conditions in this coastal portion of the Pressure Subarea, intentional application of the test method/procedure can be used to effectively differentiate background data versus the slant test well's effect if sufficient monitoring data is available."*

As described throughout the current HWG letter, sufficient background monitoring data have been collected through July 1 to clearly demonstrate the effects (or lack thereof) of Test Slant Well pumping at the various monitoring wells.

15) Bottom of Page 4 and top of Page 5. *"Therefore, we recommend that you request the Coastal Commission suspend pumping for at least the same duration pumping was conducted before authorizing an amendment to the permit. This will allow the aquifer(s) to recover from the pumping stress conditions and allow continued observation of basin conditions without the pumping stresses of the slant test well."*

The Test Slant Well pumping duration was 44 days from April 22 to June 5. As of July 18, there was an equivalent recovery period of 44 days without the Test Slant Well pumping. Thus, the requested time period to shut down the Test Slant Well has been satisfied. As demonstrated with data presented through July 1 in the current HWG letter, sufficient data were already available for the pre-pumping, during pumping, and post-pumping periods to fully evaluate effects of Test Slant Well pumping.

16) Top of Page 5. *"...the installation of Monitoring Well No. 7 will provide crucial data at a location between MW-4 and MW-5 and allow continued development of understanding regarding the hydrogeological framework in this coastal portion of the Pressure subarea."*

While it is easy for one to recommend more and more monitoring wells and data, the current monitoring well network is more than adequate to monitor the effects of Test Slant Well pumping and to establish regional water level trends that impact monitoring wells at the CEMEX site (as demonstrated with data presented in this HWG letter).

17) Top of Page 5. *"We further note that the coastal groundwater conditions are unlike those assumed by the Cal-Am modeling and that additional subsurface investigation and monitoring well observation data will be essential to understanding the occurrence and movement of groundwater south of the Salinas River."*

The Hopkins Letter only reviewed and commented on the monitoring well data associated with the Test Slant Well pumping test. The reference to the modeling work relative to "...coastal

groundwater conditions...” in this comment is undocumented and unsupported, and is not relevant to Special Condition 11. Again, one can always recommend additional subsurface investigation no matter how much work is done for a given project; in the case of Cal Am proposed CEMEX site, an extensive subsurface investigation has been conducted and several new monitoring wells installed. This subsurface investigation and ongoing monitoring well data collection are more than adequate to provide a basis for evaluation of the proposed project.

18) Middle of Page 5. “...we note that the HWG has now appropriately observed the semi-confined nature of the 180-foot aquifer in this area of the coastline...” and footnote at bottom of Page 5, “The Coastal Commission Staff Report and modeling for the test well assumed that the 180-foot aquifer in this area was unconfined. As noted above, the test well’s impacts on the 180-foot aquifer will be significantly larger than predicted in the project’s modeling and drawdown conclusions evaluated in the Coastal Commission Staff Report.”

The overall geologic nature of the upper 250 feet of sediments that comprise the Dune Sand Aquifer and 180-FTE Aquifer is primarily sand with some discontinuous thin clay layers. The manner in which groundwater levels respond in a given observation well isolated in the upper 250 feet of sediments will vary depending on if the monitoring well is screened in the lower portion of the aquifer or the upper portion of such a thick aquifer. The groundwater model documented in the Project DEIR includes multiple model layers in both the Dune Sand Aquifer and 180-FTE Aquifer. However, only one model layer within the Dune Sand Aquifer contains the water table, which responds in accordance with the specific yield value. The underlying model layers not containing the water table (such as the 180-FTE Aquifer model layers) respond in accordance with lower semi-confined to confined storage coefficient values. Thus, the test well impacts are appropriately represented in the model with respect to aquifer confinement. Again, Hopkins is making passing references here to the modeling effort, for which he does not provide a review in his letter and is not the subject of Special Condition 11.

19) Middle of Page 5. “The decrease in salinity at MW-4S demonstrates the slant well is pulling groundwater from the semi-perched Dune Sand aquifer that provides a protective water level along the coast south of the Salinas River.”

The potential slight decreasing trend observed at MW-4S requires further evaluation to determine if it is real, or due to minor instrument drift. Regardless, the lack of change in the salinity trend with onset of Test Slant well pumping and when Test Slant Well pumping ceased demonstrates that the Test Slant Well is not influencing salinity at MW-4S. Hopkins statement that the Dune Sand aquifer at MW-4S is perched is incorrect; the Dune Sand Aquifer is in hydraulic connection with the 180-FTE Aquifer at the MW-4 location (see TM1 – Summary of Results – Exploratory Boreholes posted on the Project website). The groundwater level at MW-4S does not respond to pumping of the Test Slant Well; thus, the Test Slant Well is not “pulling groundwater” from the Dune Sand aquifer at the MW-4 location. Available monitoring well data (Attachment B) and distance-drawdown analysis (Attachment C) demonstrate that the Test Slant is only drawing in water from the Dune Sand Aquifer from within radius of approximately

1,000 feet from the Test Slant Well. In reality, over 90 percent of the water flowing into the Test Slant Well will be derived from the ocean (see Project DEIR). Thus, to the extent that the undeveloped Dune Sand Aquifer provides a “protective water level along the coast”, any potential impacts from Test Slant Well pumping will be negligible.

20) Middle of Page 5. Portion of paragraph that begins with “This protective layer is provided by...” and ends with “...we recommend that you request the Coastal Commission evaluate and include mitigation to address the impacts of the slant test well on this beneficial condition as part of any amendment to the test well permit.”

As explained in the Response to Comment 19 above, any potential impacts from the Test Slant Well pumping on the Dune Sand Aquifer beyond a radius of approximately 1,000 feet are negligible. Furthermore, the performance standards already included in Special Condition 11 provides a conservative level of protection for groundwater levels and salinity in the Dune Sand Aquifer.

21) Bottom of Page 5. “In summary, Cal-Am’s monitoring for the slant well demonstrates that (1) water levels in the 180-foot aquifer at MW-4 have dropped more than 1.5 feet since operation pumping began (using any data point prior to the commencement of long-term pumping; and (2) the drop in water level (from pre-pumping conditions) was caused at least in part, if not mostly, by the test well. Therefore, we believe Cal-Am is required to obtain an amendment from the Coastal Commission before it can resume pumping.”

The data and analysis presented in the current HWG letter demonstrate that essentially all of the decline in water levels at MW-4 since Test Slant Well pumping began is related to the regional decline in water levels due to cumulative inland pumping. Due to language originally included in Special Condition 11 (i.e., the decline in water levels at MW-4 being due at least in part to pumping of Test Slant Well), the performance standard of 1.5 feet of drawdown has effectively been reduced to zero feet of drawdown. As this was not the intent of the CCC Special Condition 11, the current HWG Letter is intended to provide modifications to the Special Condition 11 to clarify the original intent of the performance standard. With the adoption of the proposed language modifications to Special Condition 11, the CCC can authorize Test Slant Well pumping to resume with continued collection of monitoring data for comparison to the originally intended performance standard.

References

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APPENDIX G-3

Monterey Peninsula Water Supply Project – Data Supporting the Threshold Monitoring Values for Compliance with Special Condition 11 of Coastal Development Permits (CDPs) A-3-MRA-14-0050 and 9-14-1735.

October 2, 2015

October 2, 2015

Charles Lester
Executive Director
c/o Tom Luster
California Coastal Commission
45 Fremont, Suite 2000
San Francisco, CA 94105-2219

Delivered By E-mail

Subject: Monterey Peninsula Water Supply Project – Data Supporting the Threshold Monitoring Values for Compliance with Special Condition 11 of Coastal Development Permits (CDPs) A-3-MRA-14-0050 and 9-14-1735.

Dear Mr. Luster:

The purpose of this letter is to briefly summarize the hydrogeologic conditions that support the use of the thresholds values called for in Special Condition 11 of Coastal Development Permits (CDPs) A-3-MRA-14-0050 and 9-14-1735. The California Coastal Commission issued Coastal Development Permits (CDPs) A-3-MRA-14-0050 and 9-14-1735 on December 8, 2014. The Language of Special Condition 11 - Protection of Nearby Well is reproduced below:

PRIOR TO STARTING PROJECT-RELATED PUMP TESTS, the Permittee shall install monitoring devices a minimum of four wells on the CEMEX site, within 2000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells and shall provide to the Executive Director the baseline water and Total Dissolved Solids ("TDS") levels in those wells prior to commencement of pumping from the test well. The Hydrogeology Working Group shall establish the baseline water and TDS levels for the monitoring wells. During the project pump tests, the Permittee shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices. The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request. If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pump test and inform the Executive Director. The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The

Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and it will submit its determination to the Executive Director. If the Executive Director agrees with the Hydrogeology Working Group that the cause of the drop in water level or increase in TDS was a source or sources other than the test well, then the Executive Director may allow testing to resume. If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit.

Special Condition 11 language contains of seven distinct directives as outlined below. The test slant well program has maintained compliance with all component directives.

- 1) Shall install monitoring devices a minimum of four wells on the CEMEX site, within 2000 feet of the test well, and one or more offsite wells to record water and salinity levels within the wells

IN COMPLIANCE: Three monitoring well cluster consisting of three monitoring wells each for a total of nine wells were installed on the CEMEX property prior to operation of the test slant. In addition, the CEMEX North well was added to the monitoring network along with monitoring of the test slant well for a total of eleven (11) monitoring points within 2,000 feet of the TSW. A new offsite monitoring well cluster including three wells (MW-5) was constructed near the entrance of the Monterey Peninsula Landfill. A Monterey County Pollution Control Agency well was added to the monitoring network. Monitoring Wells MW-6, MW-7, MW-8, and MW-9 with three monitoring wells each, have also been added to monitoring network for a total of 16 off-site monitoring wells.

- 2) Shall provide to the Executive Director the baseline water and Total Dissolved Solids (“TDS”) levels in those wells prior to commencement of pumping from the test well.

IN COMPLIANCE: Data was collected from the Special Condition Monitoring network and reported in seven consecutive weekly reports. At the end of this period, a Baseline Report was prepared outlining the construction of the Special Condition 11 Monitoring network and providing groundwater level and groundwater quality data from February 19, 2015 through April 15, 2015.

- 3) During the project pump tests, the Permittee shall, at least once per day, monitor water and TDS levels within those wells in person and/or with electronic logging devices.

IN COMPLIANCE: Electronic data logging devices have been installed in the monitoring network since each monitoring well was constructed. The electronic devices record both electrical conductance and water levels (via changes in pressure). In addition, daily hand

levels were collected to validate electronic water level data before, during, and after the pumping period. Weekly hand level data have been collected since August of 2015

- 4) The Permittee shall post data collected from all monitoring wells on a publicly-available internet site at least once per week and shall provide all monitoring data to the Executive Director upon request.

IN COMPLIANCE: Data has been continuously collected from the Special Condition Monitoring network and uploaded weekly to the publicly available CalAm website since the commencement of pumping on April 22, 2015. The first weekly report was uploaded within one week of the start of pumping the test slant well and has continued on a weekly basis. A total of twenty two (22) weekly monitoring reports have been made public. Weekly reports have continued to be uploaded after the TSW was turned off on June 5, 2015.

- 5) If water levels drop more than one-and-one-half foot, or if TDS levels increase more than two thousand parts per million from pre-pump test conditions, the Permittee shall immediately stop the pump test and inform the Executive Director.

IN COMPLIANCE: The TSW was voluntarily shut off prior to reaching the threshold a decrease in water levels of more than one-and-one-half foot, or in an increase in TDS levels of more than two thousand parts per million from pre-pump test conditions.

- 6) The Hydrogeology Working Group shall examine the data from Monitoring Well 4 if the test well is shut down due to either of these causes. The Hydrogeology Working Group shall determine whether the drop in water level or increase in TDS is from a cause or causes other than the test well, and it will submit its determination to the Executive Director.

IN COMPLIANCE: The HWG reviewed the data and issued an analysis of the test data July 22, 2015.

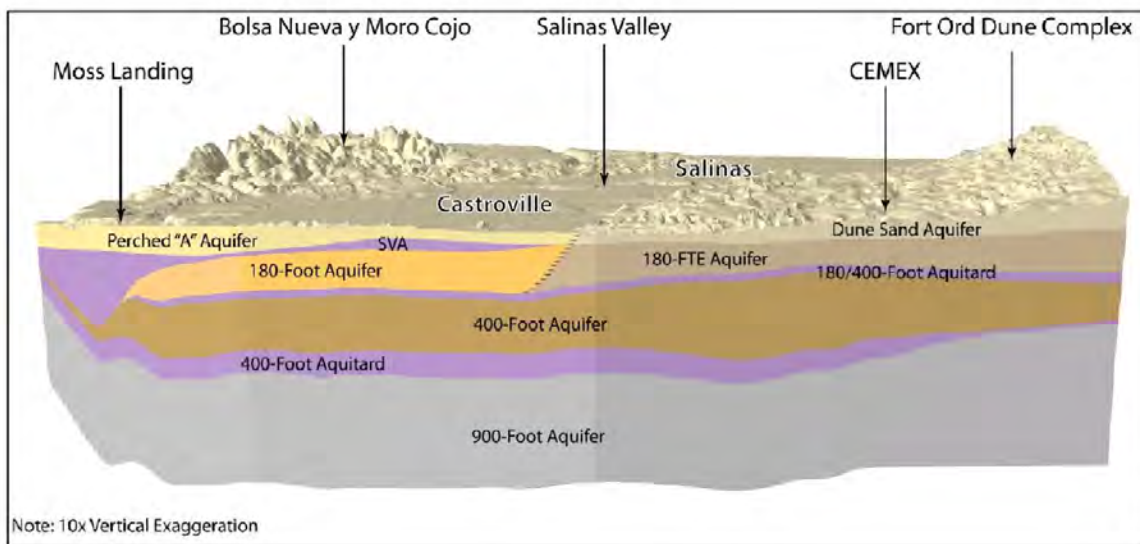
- 7) If, however, the Executive Director determines that the drop in water level was caused at least in part by the test well, then the Permittee shall not re-start the pump test until receiving an amendment to this permit.

IN COMPLIANCE: The TSW has remained shut off, while the CCC goes through the investigation and analysis of the data in order to determine the appropriate amendment to the permit which will continue to be protective of near-by wells.

Background of Special Condition 11 Threshold Changes in Groundwater levels

The Hydrogeology Working Group (HWG) was formed as a result of the 2013 Settlement Agreement. The HWG is composed of hydrogeologic experts that represent key stakeholders for groundwater use and management in the Salinas Valley and Monterey Peninsula area of central California. The group has been actively involved through all stages of the project including: the project hydrogeologic investigation planning, monitoring well construction, groundwater model construction, and currently in the analysis of monitoring data. By addressing all stages of the project hydrogeologic analysis, the HWG can ensure that hydrogeologic conditions of the project area have been accurately characterized so that the groundwater model created from the field data would represent an assessment tool that the settling parties could be confident for evaluating project impacts from the TSW.

The data collected from the hydrogeologic field investigations completed in 2013 was used to prepare the interpretations of hydrostratigraphic relationships from Moss Landing and CEMEX areas. A conceptual model of the hydrostratigraphic units from the Moss Landing to CEMEX area as interpreted from data is shown below:



During the review process of the investigation data, the HWG recommended that a focused groundwater model of the CEMEX area be constructed using the detailed lithologic and water quality data collected from the CEMEX site lithologic and water quality borings. The previously constructed North Marina Groundwater Model (NMGWM) is an 8 –Layer model with a 200 ft x

200 ft cell size. The Focused CEMEX model (CM) was constructed with 14-Layers and a cell size of 20 ft x 20 ft. The detailed data collected from the boreholes at the CEMEX site was used for model input parameters (i.e. model layer thickness, hydraulic conductivity, storativity, and initial groundwater levels). The newly constructed CM was used to predict the response of the proposed Test Slant Well (TSW) pumping at the locations of the proposed monitoring wells and the vicinity around the CEMEX site. A draft report entitled “Results of Test Slant Well Predictive Scenarios Using the Focused CEMEX Area Model” was issued on July 8, 2014. The report provides a prediction of drawdown in the Dune Sand aquifer and 180-FTE aquifer in the vicinity of the CEMEX. Two scenarios were considered: 1) A TSW constructed at an angle 19 degrees below the horizontal with a total screen length of 588 lineal feet along the angle of the well in both the Dune Sand and 180-FT aquifers, and 2) A TSW constructed at an angle of 10 degrees with a total screen length of 830 lineal feet. Both scenarios assumed pumping at a rate of 2,500 gallons per minute (gpm) for a period of eight months. The table below provides a summary of the predictive scenarios for the TSW pumping

| Layer | Aquifer/ Aquitard | Scenario 1 (19 Degrees Below Horizontal) | | | | Scenario 2 (10 Degrees Below Horizontal) | | | |
|--------------------------|----------------------|--|-------------|-------------|-------------|--|-------------|-------------|-------------|
| | | MW-1 | MW-2 | MW-3 | MW-4 | MW-1 | MW-2 | MW-3 | MW-4 |
| Layer 1 | Benthic Zone | | | | | | | | |
| Layer 2 | Dune Sand | -2.7 | -2.0 | -1.5 | -1.0 | -4.0 | -2.0 | -1.2 | -0.8 |
| Layer 3 | Dune Sand | -2.9 | -2.0 | -1.5 | -1.0 | -4.2 | -2.0 | -1.1 | -0.8 |
| Layer 4 | Dune Sand | -3.4 | -2.0 | -1.5 | -1.0 | -4.1 | -2.0 | -1.2 | -0.8 |
| Average Dune Sand | | -3.0 | -2.0 | -1.5 | -1.0 | -4.1 | -2.0 | -1.2 | -0.8 |
| Layer 5 | SVA | Not Present in CEMEX area | | | | | | | |
| Layer 6 | 180-FTE | -6.2 | -3.1 | -1.9 | -1.2 | -3.4 | -2.1 | -1.4 | -0.8 |
| Layer 7 | 180-FTE | -5.7 | -3.7 | -2.4 | -1.3 | -2.2 | -1.7 | -1.2 | -0.8 |
| Layer 8 | 180-FTE | -4.9 | -3.5 | -2.5 | -1.3 | -1.3 | -1.1 | -1.0 | -0.7 |
| Average 180-FTE | | -5.6 | -3.4 | -2.3 | -1.2 | -2.3 | -1.6 | -1.2 | -0.8 |

During preparation of Special Condition 11 for Coastal Development Permits (CDPs) A-3-MRA-14-0050 and 9-14-1735 which addresses “Protection of Nearby Well” the potential impacts to nearby wells from the proposed TSW pumping were considered by determining a drawdown

threshold that could be measured in a monitoring well near the limit of the CEMEX property (Monitoring Well 4-series, located about 1,900 feet from the TSW) that would ensure that off-site wells would be exposed to a negligible impact from the TSW long-term pumping program. The modeling indicated the anticipated average drawdown of 1-Foot in the Dune Sand aquifer at the MW-4 location. The drawdown in the Dune Sand aquifer would be assessed by groundwater level measurements collected from the Dune Sand aquifer completion (MW-1S) at the MW-4 site. An average drawdown of 1.2-FT drawdown was anticipated in the 180-FTE aquifer at the MW-4 series location to be measured by drawdown measurements in the 180-FTE (MW-1M).

Using a distance drawdown relationship from the average values shown in the table above, and selecting threshold value of 1.5 Feet was selected for MW-4, it was predicted that a drawdown off-site of 0.5 feet might occur at a distance of about 4,000 feet and negligible drawdown would be anticipated at a distance of about 6,000 feet in the 180-FTE aquifer. The threshold value is overly conservative in that there are no active pumping wells screened in 180-FT aquifer within 6,000 feet of the TSW and an additional drawdown of 0.5 feet or 1.5 feet in a pumping well screened at the depth of the 180-FTE aquifer would have a negligible impact on the operation of the well.

Results of Field Monitoring During TSW Pumping Period

In reviewing groundwater level trends from the period before and during TSW pumping, the HWG members agreed on the following:

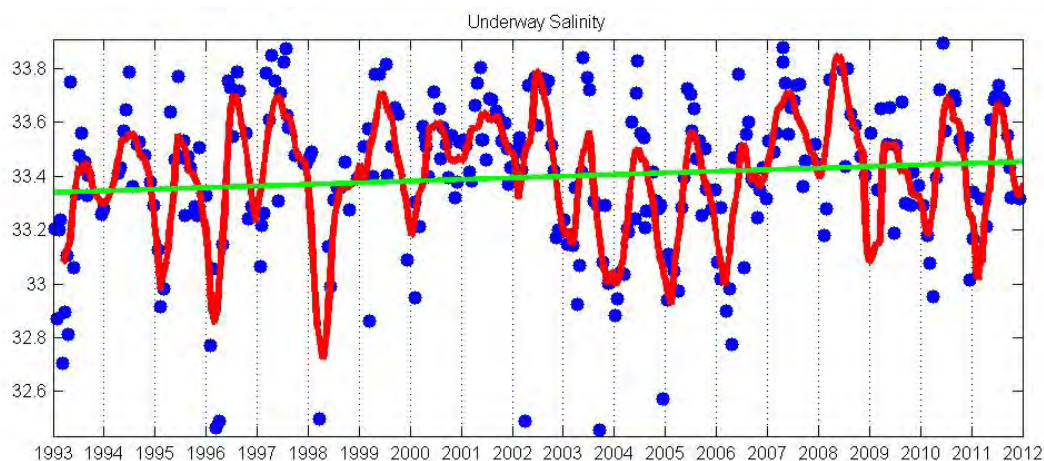
- 1) Test Slant Well pumping data indicates impacts only to the shallow (Dune Sand aquifer) and middle (180FTE aquifer) groundwater levels have occurred in MW-1 and MW-3.
- 2) Test Slant Well pumping data indicates no effects on or impacts to deep groundwater levels in the CEMEX North Well, MW-1D and MW-3D.
- 3) Test Slant Well pumping data indicates there may be up to 0.25 feet of drawdown in MW-4M, up to 0.1 feet of drawdown in MW-4S and no impact in the MW-4D, and MW-5 monitoring wells (deep, middle, shallow).
- 4) As such, the radius of influence of the Test Slant Well pumping (at an average discharge rate of 2,000 gpm), is in the vicinity of MW-4, with negligible drawdown beyond MW-4 series.

The CM model predicted an average drawdown in the Dune Sand Aquifer and the 180-FTE aquifer at MW-4 to be 1.0 FT and 1.2 FT respectively, at the end of eight months of pumping, while pumping at a rate of 2,500 gpm. The model was programmed to simulate equal production from the Dune Sand aquifer and 180-FTE aquifer. The TSW was pumped at a rate of 2,000 gpm.

Preliminary analysis indicates that approximately 80% of the flow was from the Dune Sand aquifer and 20% from the 180-FTE aquifer. The TSW, pumping at a rate of 2,000 gpm may have resulted in 0.25 feet drawdown from TSW pumping in MW-4M after six weeks of pumping in either aquifer. The field responses in the aquifers from TSW pumping confirm that the predictive modeling accurately represent the anticipated responses of the aquifers to TSW pumping. In addition, the Special Condition 11 drawdown threshold is protective of off-site wells.

Background of Special Condition 11 Threshold Changes in Groundwater Total Dissolved Solids

The Monterey Bay Aquarium Research Institute (MBARI) started a program of semi-monthly time series cruises to several stations within and off-shore of Monterey Bay. In 2012, MBARI published time series parameters at stations in central Monterey Bay from the 23 years, 1989-2012, of sampling at the station. The figure below was published by MBARI in 2012 as Figure 3(b) of their paper entitled “Monterey Bay Time-Series: 23 Years of Measuring Physical, Chemical, and Biological Variables,” presented at the International Time-Series Methods Workshop in Bermuda in November, 2012. The units on the left hand axis are practical salinity units (psu) which are equivalent to parts per thousand. Multiplying these values by 1,000 will provide salinity parts per million (ppm).



The data in the figure above shows that seawater averaged over depth in Monterey Bay showed at variation from approximately 32,400 ppm to approximately 34,000 ppm or about 1,600 ppm.

In addition, natural variations in salinity could also occur from seasonal changes in ground water levels. The project area is located in an area known for seawater intrusion of the both the 180-FTE aquifer and the 400-FT aquifer. Historical movement of seawater due to landward pumping of municipal and agricultural wells have occurred at rates which would vary based on the ability

of different subsurface geologic layers to transmit water (i.e. variations with depth of the hydraulic conductivity). Since the geologic units are stratified, the salinity at different depths can also show variations. The water quality samples collected from the CEMEX borings showed vertical stratification in total dissolved solids. Monitoring wells screened over intervals which contain water with varying salinity may show a change in some changes in salinity simply from mixing of water when sampling. Therefore, the TDS threshold change of 2,000 ppm necessarily includes consideration for the complexity of near shore subsurface salinity. The Special Condition 11 TDS threshold was selected at 2,000 ppm to ensure that potential increases in salinity at the monitoring well would not, at a minimum be due to natural salinity variations in seawater nor be caused by simple mixing of vertically TDS stratified groundwater.

Results of Field Monitoring for TDS at MW-4 During TSW Pumping Period

Prior to and after the initiation of the long-term test slant well pumping test, the level of total dissolved solids in MW-4 monitoring wells were monitored daily through use of dedicated down hole transducers with electrical conductivity probes. The electrical conductivity in MW-4S showed a slightly decreasing trend, of approximately 1,000 us/cm or about 640 mg/L¹. The electrical conductivity in MW-4M has increased approximately 900 us/cm or about 576 mg/L. The electrical conductivity in MW-4D has remained the same.

Groundwater level data collected from monitoring wells before initiation of the test (March 20, 2015) and approximately one month after the test commenced showed that groundwater levels in MW-4M were higher at the coast than inland. The data validates the reported historical seawater intrusion identified in the 180-FTE by others. These conditions suggest that slight increase in electrical conductivity in MW-4M is not associated with test slant well pumping but rather from ongoing inland pumping. Therefore, further increases in TDS are anticipated from regional inland groundwater production and apart from test slant well pumping.

The Special Condition 11 Threshold of an increase of 2,000 ppm at MW-4 is conservative and protective of nearby wells.

¹ An Electrical Conductivity to TDS ratio of 0.64 was used to calculate TDS from electrical conductivity. The TDS:EC ratio was calculated from water quality data collected in the regional borehole study in 2013/2014. The TDS:EC ratio will be refined from water quality data from each monitoring well when sufficient data becomes available

Sincerely,

The Hydrogeologic Working Group

Dennis Williams, Tim Durbin, Martin Feeney, Peter Leffler



Dennis Williams

ABSENT

Tim Durbin,



Martin Feeney



Peter Leffler

APPENDIX H

**Methodology and Calculations for Prediction of Ocean Water
Percentage for Proposed MPSWP Production Wells (HWG 2017)**

September 15, 2017

Mr. Ian Crooks
California American Water Company
4701 Beloit Drive
Sacramento, CA 93838

Subject: Methodology and Calculations for Prediction of Ocean Water Percentage for Proposed MPSWP Production Wells

Dear Mr. Crooks:

The Hydrogeology Working Group (HWG) was tasked with calculation of the anticipated ocean water percentage (OWP) to complement modeling work being performed by HydroFocus for the Monterey Peninsula Water Supply Project (MPWSP) Draft Environmental Impact Report (EIR). The superposition approach developed by HydroFocus in their modeling effort does not directly provide the ocean water percentage pumped by the project wells; therefore, the HWG has developed two different methodologies to provide estimates of the OWP for two MPWSP scenarios. The first approach involves development of an analytical equation to describe mixing of water within the capture volume, and the second approach involves numerical modeling using the existing CEMEX Model. This letter describes the first approach using an analytical equation.

1.0 Introduction

The proposed MPWSP (Project) includes a desalinization plant with feedwater supplied from angled (slant) wells located near the Monterey Bay. To maximize the OWP in the pumped water, the proposed project wells extend at low angles to penetrate near shore and offshore subsea aquifer systems. A critical operational consideration of the slant wells is the OWP. In this TM, OWP is defined as:

$$OWP = 100 \times (C_{pw} - 500) / (C_s - 500)$$

where C_{pw} = Salinity (TDS in mg/L) concentration from project wells,
 C_s = Salinity (TDS in mg/L) concentration of ocean water
500 = Assumed Fresh Water TDS in mg/L.

1.1 Purpose

This letter describes the overall methodology, derivation of the analytical equation, parameter inputs (to the equation), and results of application of the equation to various project scenarios and ranges of parameter inputs. The purpose of this letter is to present the methodology and calculations (i.e., development and application on an equation/model) to predict the percentage of ocean water that will be derived from the proposed MPWSP production wells during the Project life.

1.2 Capture-Volume Concepts

The OWP depends of the geometry of the three-dimensional capture volume associated with the operation of the Project wells. The capture volume is the volume from which the wells will draw water.

The geometry of a capture volume is determined by the configuration of the streamlines produced by the pumping from the wells. A streamline corresponds to the travel path (i.e., flow line) of a water molecule moving in the direction of decreasing hydraulic gradient, and it has the property that flow does not cross a streamline.

Figure 1 shows the geometry of a two-dimensional capture volume produced by two wells within a regional groundwater flow scenario. This is a simplified or idealized conceptualization of the proposed Project wells. To simulate this analytically, an image well system is used to create the constant head boundary of the ocean. As an example, Well A is a pumping well and Well B is an imaginary injection well representing the ocean recharge boundary (Todd, 1980). The regional flow is from west to east. The capture volume is delineated by the bold line. With respect to the Project, Well A corresponds to the collection of slant wells, Well B corresponds to the ocean-water inflow induced by the slant wells, and the regional flow corresponds to the eastward background groundwater flow at the shoreline. The Monterey Bay shore is the vertical line located between wells A and B.

The boundary of a two-dimensional capture zone is defined by two streamlines. Both streamlines start at the upstream stagnation point. The path of one streamline is around the northern side of the capture volume to the downstream stagnation point, and the path of the other streamline is around the southern side of the capture volume to the downstream stagnation point. The stagnation points are points of zero groundwater movement. The upstream stagnation point is imaginary, but is created by the balance of the theoretical source (imaginary injection well) versus the actual sink (slant well pumping), which is simply the superposition of the imaginary image well (“westward push” of the injected water) with the real slant well pumping (“eastward push” of the regional groundwater flow). The downstream stagnation point is real, and is created by the balance of the westward pull of the pumped water against the eastward pull of the regional groundwater flow. Because groundwater flow obeys flow within and with the direction of streamlines, the bounding northern and southern streamlines define an isolated region within the regional flow.

The geometry of the capture volume associated with the actual slant well layout is much more complex than shown on **Figure 1**. However, the principles associated with the simplified conceptualization apply to the complex reality. **Figure 2** shows a representation of the expected capture-volume features. **Figure 2a** shows a plan view of the capture volume, **Figure 2b** shows an east-west cross section through the capture volume, and **Figure 2c** shows a north-south cross section through the capture volume. The general shape of the capture volume is that of a walnut shell half with the open side up. The surface of the capture volume is defined by streamline surfaces that correspond with the outer surface of the walnut shell. In other words, the capture volume is an isolated volume within the background regional groundwater flow.

The OWP depends on the salinity (i.e., total dissolved solids (TDS)) within the capture volume. Initially, the salinity is the background salinity before the Project starts operating. Subsequently, the Project pumping induces inflow to the capture volume of ocean water, which changes the salinity within the capture volume. Eventually, the ocean water floods the entire capture volume, and the salinity within the capture volume reaches a steady state. Concurrent with these events, the capture volume evolves. Initially, no capture volume exists. Subsequently, the capture volume appears and then expands.

Eventually, the capture volume becomes fully developed. However, the formation of the capture volume and the salinity within the capture volume occur on different time scales and are time dependent. The development of the capture volume occurs much more rapidly than the establishment of a steady-state salinity within the capture volume. While the boundaries of the capture volume evolve fairly quickly to a steady-state configuration (over a period of a few months), the salinity within the capture volume takes several years to evolve to steady-state conditions.

Based on this difference in response times, the groundwater flow and salinity dynamics can be analyzed differently. The development of the capture volume can be treated as an instantaneous occurrence, but the evolution of salinity within the capture volume must be treated as a transient event.

2.0 Development of Equation for Calculating OWP

2.1 Water-Budget and Salinity-Budget Equations

The equation for calculating the OWP is based on the water and salinity budgets for the capture volume for the Project wells. The water budget represents the steady-state inflows and outflows after equilibrium is reached, which occurs several months to a few years after the Project pumping is started. The steady-state water inflows to the capture volume are seawater inflow from Monterey Bay and recharge from precipitation on the land surface overlying the capture volume. The steady-state water outflow from the capture volume is the pumping from the Project wells. For the steady-state condition, the inflows equal the outflow, which can be stated as:

$$[\text{Water Inflow}] = [\text{Water Outflow}] \quad (1a)$$

or

$$Q_S + Q_R = Q_P \quad (1b)$$

where Q_S is the rate of seawater inflow to the capture volume (acre-ft/yr), Q_R is the rate of precipitation recharge to the capture volume (acre-ft/yr), and Q_P is the rate of pumping from the capture volume (acre-ft/yr).

While the steady-state water budget can be used to formulate an equation for calculating the OWP, a transient-state salinity budget is required. The mass inflows to the capture volume are total dissolved solids (TDS) concentration of the ocean inflow times the volumetric rate of inflow from the ocean plus the TDS concentration of the precipitation recharge times the precipitation recharge inflow rate. The mass outflow from the capture volume is the TDS concentration within pumped water times the pumping rate of the Project wells. For the transient-state condition, the mass inflows minus the mass outflow equals the rate of change in mass stored within the capture volume, which can be stated as:

$$[\text{Mass Inflows}] - [\text{Mass Outflow}] = [\text{Rate of Change in Mass Storage}] \quad (2a)$$

or

$$Q_S C_S + Q_R C_R - Q_P C = V \frac{dC}{dt} \quad (2b)$$

where C_S is the seawater TDS (mg/L), C_R is the recharge TDS (mg/L), C is the volumetrically averaged groundwater TDS within capture volume (mg/L), V is the water volume within capture volume (acre-ft), and t is time (year). The TDS within the Project pumped water is assumed to be the same as the concentration within the capture volume. Equation 2b in mathematics is called an ordinary differential equation (Boyce and DiPrima, 2013). The term dC/dt is the mathematical notation for indicating the change in a quantity. Here the change is that of the volume-weighted average TDS within the capture volume with respect to time.

2.2 Solution for Salinity-Balance Equation

The solution to Equation 2b yields the change with time for the TDS within the capture volume, which is assumed to be identical to the change in the TDS with the Project pumped water. To solve for the change in TDS, Equation 2b first is put into a standard form by defining some new quantities having the form:

$$a = \frac{Q_P}{V} \quad (3)$$

and

$$b = \left(\frac{Q_S C_S + Q_R C_R}{V} \right) \quad (4)$$

Correspondingly, Equation 2b becomes:

$$\frac{dC}{dt} = -aC + b \quad (5)$$

which is a form that can be found in many textbooks on ordinary differential equations (Boyce and DiPrima, 2013). The solution to this equation (Boyce and DiPrima, 2013) is:

$$C = \frac{b}{a} + k_1 \exp(-at) \quad (6)$$

where k_1 is a constant that depends on the initial condition. Here, the initial condition is the TDS concentration within the capture volume at the start of the Project pumping. The notation $\exp(-at)$ represents the exponential function for the argument $-at$. At time $t = 0$, the constant is expressed as:

$$k_1 = C_0 - \frac{b}{a} \quad (7)$$

where C_0 is the average TDS within the capture volume at the start of the Project pumping. Substituting Equation 7 into Equation 6 yields the solution to Equation 2b in the form:

$$C = \frac{b}{a} + \left(C_0 - \frac{b}{a} \right) \exp(-at) \quad (8)$$

Given specifications of the water inflows and outflow, the TDS concentrations within the inflows and outflow, the volume of the capture volume, and the TDS concentration within the capture volume, Equation 8 yields the change over time in the TDS within the capture volume and correspondingly in the Project pumped water. That result can be normalized to the seawater TDS to obtain the change over time in the OWP.

3.0 Application of Equation for Calculating OWP

3.1 Model Parameters

The application of Equation 8 requires the specification of model parameters particular to conditions within the vicinity of the MPWSP production wells. The parameters include the capture volume, precipitation recharge, precipitation recharge salinity (TDS), seawater salinity (TDS), groundwater salinity (TDS) within the capture volume, and aquifer porosity (i.e., specific yield).

3.1.1 Capture Volume

The volume of the capture volume was derived from an analysis completed by HydroFocus. They used a particle-tracking approach to delineate the three-dimensional boundary surface of the capture volume. Subsequently, they quantified the aquifer-material volume within the capture volume. The results of the capture volume analysis are provided in **Attachment A**. The model used for the capture volume analysis is described in more detail in the HydroFocus report (2017).

3.1.1.1 Hydraulic Gradient

The capture volume is dependent on the regional groundwater flow in the vicinity of the proposed MPWSP production wells. For a particular production rate, the area and volume of the capture volume decrease with increased strength of the regional flow. To address this dependency, HydroFocus identified the capture volume for a range regional-flow strengths, where the flow strength was that corresponding to a particular hydraulic gradient across the model domain.

HydroFocus reviewed groundwater level data for the model domain area and preliminary groundwater contour maps prepared by GeoScience. Based on available data, HydroFocus determined that the regional inland hydraulic gradient may vary from 0.0004 to 0.0011 with an average of 0.0007. Three different hydraulic gradients (0.0004, 0.0007, and 0.0011) were applied to the revised and updated North Marina Groundwater Model for the capture volume analysis conducted by HydroFocus. Because the updated groundwater model is based on the superposition approach, the zero gradients in the model were modified by changing heads at the inland boundaries to create the three different gradients for the capture volume analysis. Additional details on model and capture volume analysis are provided in HydroFocus (2017).

It should be noted that hydraulic gradients estimated by HydroFocus were intended to be representative of the entire North Marina Model domain. However, the hydraulic gradients at the coast and in the CEMEX project vicinity are steeper than the average calculated by HydroFocus for the entire model domain. Review of the hydraulic gradients for the Dune Sand Aquifer and 180-FTE Aquifer in the vicinity of the MPWSP production wells indicated a range from 0.0005 to 0.0018. Thus, for the purposes of the analysis described in this TM, the steepest regional hydraulic gradient evaluated by HydroFocus (0.0011) actually provides an average local hydraulic gradient in the vicinity of the project site. A more representative lower bound for local hydraulic gradient is the 0.0007 value included in the HydroFocus assessment. The analytical model results for the 0.0004 gradient are not considered valid in this evaluation, because the 0.0004 gradient is not representative of the range of local hydraulic gradients. A representative upper bound value for local hydraulic gradient would be on the order of 0.0015, but this value was not available from the HydroFocus calculations. Therefore, an upper bound gradient analysis is not included in this evaluation; however, it is clear that it would show more rapid mixing of seawater than indicated for the results using a gradient of 0.0011.

3.1.1.2 Capture Volume Model Results

The results of the capture volume model analysis are provided in **Attachment A**, and the model is described in more detail in HydroFocus (2017). The tabulated results show the amount of recharge, area, and volume of the six different capture volumes (three for each pumping rate). As would be expected the capture zone area and volume decrease with increasing hydraulic gradients. The average annual precipitation recharge (in inches/year) for each capture zone was calculated as the average recharge (AF/month) divided by the capture zone area (acres) of Model Layer 2 (Dune Sand Aquifer) and applying the appropriate factors to convert from feet/month to inches/year. The aquifer thickness for each capture zone (used as input to the equation) was calculated as the area times the thickness for each aquifer added together divided by the area of the Dune Sand Aquifer. These calculations are provided in **Attachment A**.

3.1.2 Precipitation Recharge Quantity

The long-term average annual precipitation for the CEMEX area (36.7167, -121.7993) of 14.82 inches was based on PRISM monthly data for 1981 to 2010 (<http://www.prism.oregonstate.edu/explorer/>). The average annual precipitation derived from PRISM data is consistent with local weather stations in Salinas. The average annual precipitation for the City of Salinas was 15.5 inches from 1961 to 1990 (<http://www.usclimatedata.com/climate/salinas/california/united-states/usca0971>); the average annual precipitation for Salinas Municipal Airport was 13.3 inches from 1878 to 2016

(<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7669>); and the average annual precipitation for the Salinas 2 E station was 14.6 inches from 1958 to 2005 (<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?casali+nca>). Overall, Salinas weather stations indicate a range of long-term precipitation averages for the City of Salinas at various locations and over various time periods of 13.3 to 15.5 inches/year, thus, it is assumed that the PRISM average annual precipitation of 14.82 inches is a reasonable long-term average at CEMEX.

Water balance calculations were used to calculate the range of groundwater recharge from precipitation in the CEMEX area (**Attachment B**). The analysis uses monthly average values of precipitation and Class A pan evaporation to calculate monthly average recharge. The coastal Monterey Bay area is encompassed by the Zone 8 Evaporative Demand area in DWR Bulletin 113-3 (1975). In order to provide a range of possible conditions, a range of pan coefficients were applied in the water balance analysis to obtain net evaporation from bare soil. As indicated in **Attachment B**, the calculated precipitation recharge ranged from 1.4 to 4.4 inches/year. This amount of precipitation recharge represents approximately 10 to 30 percent of the estimated long-term annual average of 14.8 inches for the CEMEX area. Additional recharge would also occur via excess irrigation recharge over a portion of the capture zone areas.

The amount of recharge within the capture zone area of the project wells in the North Marina Groundwater Model (NMGWM) ranges from 4.6 to 5.0 inches/year, depending on the shape and size of the capture zone in the Dune Sand Aquifer for the various combinations of project pumping rates (15.5 vs. 24.1 MGD) and hydraulic gradients (0.0004, 0.0007, and 0.0011). The model value is a combination of precipitation and excess irrigation recharge.

An important consideration is that the CEMEX area is comprised of unconsolidated dune sands with minimal fines and sparse vegetation. This area is characterized by rapid infiltration, lack of runoff, and reduced transpiration compared to other areas. Therefore, the water balance calculations summarized in **Attachment B** may tend to underestimate groundwater recharge.

Based on review of available data related to precipitation and soil type (dune sand) in the project area, the potential range of precipitation recharge within the capture zone area for the OWP analysis was estimated to be 10 (1.5 inches/year) to 50 percent (7.4 inches/year) of the long-term average annual precipitation (14.8 inches/year), with an average (best estimate) of 5.0 inches/year.

3.1.3 Precipitation Recharge Salinity

The estimated range of precipitation recharge total dissolved solids (TDS) is from 10 mg/L to 200 mg/L. The low end is bounded by the TDS of precipitation before it interacts with the soil (California SWRCB, June 2016). The upper end represents a reasonable high-end TDS concentration after infiltrating precipitation migrates through the vadose zone and just before it reaches the water table. The average (best estimate) value for precipitation recharge TDS is 100 mg/L.

3.1.4 Seawater Salinity

The likely range for seawater TDS was based on 12 monthly samples for one year from February 2015 to January 2016 at the Cal Am-1 station located about 1,200 feet offshore of the Test Slant Well Location (average of 33,500 mg/L with range from 32,000 to 36,000 mg/L), and a surf zone sampling event in February 2016 (about 35,000 mg/L). Other data (e.g., four stations around the outfall, regional stations)

are primarily reported as salinity in PSU units and are not directly convertible to TDS; thus, these data were not used for this analysis. Based on available data, the seawater salinity was assumed to range from 33,000 to 35,000 mg/L with a best estimate of 33,500 mg/L.

3.1.5 Specific Yield

The specific yield of the capture volume was evaluated based on review of monitoring well lithologic logs (as represented by MW-1), literature review, and model input data (TM2 – CEMEX Model Update). Review of lithologic log for MW-1 generally indicates soil types as summarized in **Table 1**. In general, specific yield may serve as a proxy for effective porosity for coarse-grained materials.

Table 1. Summary of Lithology and Specific Yield for MW-1

| Well I.D. | Aquifer | Depth Interval | Saturated Thickness | Description | Specific Yield (%) |
|-----------|-----------|----------------|---------------------|--|--------------------|
| MW-1S | Dune Sand | 5 to 45 | ? | Fine to Coarse Sand | 23-28 |
| MW-1S | Dune Sand | 45 to 95 | 50 | 75-100% VF to Coarse Sand; up to 5% Silt; up to 25% F-C Gravel | 8-28 |
| MW-1M | 180-FTE | 95 to 148 | 53 | 75-100% F to Coarse Sand; up to 25% Silt; up to 15% F-C Gravel | 8-28 |
| MW-1M | 180-FTE | 148 to 167 | 19 | 15-85% F to Medium Sand; 20-80% Clay | 3-28 |
| MW-1M | 180-FTE | 167-205 | 37 | 85-95% F to Medium Sand; 5-15% Clay/Silt | 3-28 |
| MW-1M | 180-FTE | 205-225 | 20 | Mixture of Silt, Clayey Sand, Sand w/ Clay, and F-C Sand | 3-28 |
| Overall | | | | Sand with no clay/silt | 23-28 |
| Overall | | | | Sand/Gravel with 5-25% silt | 8-28 |
| Overall | | | | Sand/Clay/Silt mixtures | 3-28 |

Note: Specific yield values were based on Fetter (1994) and Todd (1980).

The potential specific yield range of 0.03 to 0.28 was evaluated by calibration to TSW water quality (i.e., TDS) data. The specific yield calibration results are summarized in **Table 2**. As indicated in **Table 2**, comparison and calibration to TSW water quality data indicate that the optimum value for specific yield in the analytical equation is approximately 0.15.

Based on review of available data, review of lithologic logs in terms of a general assessment of the proportion of the various lithologies, and calibration to TSW water quality data, the range of specific yield values for sediments in the capture volume for the OWP sensitivity analysis was set at 5 to 25 percent, with an average (best estimate) specific yield value of 15 percent.

Table 2a. Calibration of Porosity to Test Slant Well Data from April 2015 to November 2016 (1.6 years)

| Porosity | Initial TDS | Average Percent Difference | Absolute Value Percent Difference | Comments |
|----------|-------------|----------------------------|-----------------------------------|--|
| 0.03 | 25,400 | -5.35 | 5.35 | overpredicts 0 to 1.6 years |
| 0.05 | 25,400 | -4.3 | 5.0 | underpredicts 0 to 0.12 years, overpredicts 0.6 to 1.6 years |
| 0.08 | 25,400 | -2.8 | 4.3 | underpredicts 0 to 0.12 years, overpredicts 0.6 to 1.6 years |
| 0.1 | 25,400 | -1.8 | 3.6 | underpredicts 0 to 0.12 years, overpredicts 0.6 to 1.6 years |
| 0.13 | 25,400 | -0.3 | 2.9 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.1 years, overpredicts 1.2 to 1.6 years |
| 0.15 | 25,400 | 0.7 | 2.6 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.6 years |
| 0.18 | 25,400 | 1.9 | 2.7 | underpredicts 0 to 1.1 years, approximately correct 1.2 to 1.6 years |
| 0.2 | 25,400 | 2.6 | 2.8 | underpredicts 0 to 1.1 years, approximately correct 1.2 to 1.6 years |
| 0.25 | 25,400 | 4.2 | 4.2 | underpredicts 0 to 1.1 years, approximately correct 1.2 to 1.6 years |
| 0.28 | 25,400 | 5.0 | 5.0 | underpredicts 0 to 1.6 years |
| 0.3 | 25,400 | 5.4 | 5.4 | underpredicts 0 to 1.6 years |

Table 2b. Calibration of Initial TDS to Test Slant Well Data from April 2015 to November 2016 (1.6 years)

| | | | | |
|------|--------|-------|------|---|
| 0.15 | 24,000 | 2.2 | 3.5 | underpredicts 0 to 1.1 years, approximately correct 1.2 to 1.6 years |
| 0.15 | 24,500 | 1.6 | 3.2 | underpredicts 0 to 1.1 years, approximately correct 1.2 to 1.6 years |
| 0.15 | 25,000 | 1.1 | 2.9 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.6 years |
| 0.15 | 25,400 | 0.7 | 2.6 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.6 years |
| 0.15 | 26,000 | 0 | 2.45 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.6 years |
| 0.15 | 26,500 | -0.55 | 2.35 | underpredicts 0 to 0.12 years, approximately correct 0.6 to 1.6 years |
| 0.15 | 27,000 | -1.1 | 2.25 | approximately correct 0 to 1.1 years, overpredicts 1.2 to 1.6 years |
| 0.15 | 27,500 | -1.6 | 2.3 | approximately correct 0 to 1.1 years, overpredicts 1.2 to 1.6 years |
| 0.15 | 28,000 | -2.2 | 2.5 | approximately correct 0 to 1.1 years, overpredicts 1.2 to 1.6 years |

3.1.6 Initial/Ambient Groundwater Salinity within Capture Volume

The assessment of initial/ambient groundwater salinity within the capture volume was based upon review of the capture volumes for the various model runs, groundwater quality data for monitoring wells within the capture volume, groundwater quality data for the Test Slant Well (TSW), and calibration to TSW groundwater quality results.

The combined review of monitoring well TDS data with TSW TDS data collected during the long term pumping test clearly indicated the dominance of near shore TDS concentrations in pumped water from the TSW. Comparison of the initial TSW TDS concentrations (24,850 – 25,400 mg/L), the TSW TDS concentration after one week of pumping (26,000 mg/L), and the range of monitoring well TDS concentrations demonstrates that higher TDS values of monitoring wells nearest the ocean are the most representative of ambient TDS for model input. This is to be expected because the TSW screens are located adjacent to the ocean and initial water flowing into the TSW would be anticipated to be derived from ambient water adjacent to the ocean.

Calibration of the initial/ambient TDS value to TSW water quality data indicates a reasonable range for initial/ambient TDS is from 25,000 to 27,000 mg/L with an optimum value of 26,000 mg/L (**Table 2**). A sensitivity range of ambient groundwater TDS from 24,000 to 28,000 mg/L was evaluated in this study.

3.1.7 Summary of Parameter Values

Based on a review of available data related to the key input parameters for OWP calculations, the average (best estimate) values and ranges for sensitivity analyses are summarized in **Table 3**.

Table 3. Averages and Ranges of Input Parameters for OWP Calculation Sensitivity Analyses

| Parameter | Minimum | Best Estimate | Maximum |
|---------------------------------|-------------|---------------|-------------|
| Precipitation Recharge Quantity | 1.6 inches | 5.0 inches | 8.0 inches |
| Precipitation Recharge TDS | 10 mg/L | 100 mg/L | 200 mg/L |
| Seawater TDS | 33,000 mg/L | 33,500 mg/L | 35,000 mg/L |
| Specific Yield | 0.05 | 0.15 | 0.25 |
| Initial/Ambient Groundwater TDS | 24,000 mg/L | 26,000 mg/L | 28,000 mg/L |

3.2 Estimated Salinity of Pumped Water

3.2.1 Introduction

The salinity of pumped water was estimated using an Excel spreadsheet to implement the equation described in a previous section of this TM. Application of the equation to the ongoing Test Slant Well pumping is described below to with regard to calibration of specific yield and ambient salinity summarized in **Table 2**. The OWP of pumped water was then calculated for three base cases (of different hydraulic gradients) for both the 15.5 and 24.1 MGD projects. In addition, sensitivity analyses were conducted for the 0.0011 hydraulic gradient for selected input parameters.

3.2.2 Calibration to Test Slant Well Field Data

In order to better understand the predictive capabilities of the equation described in this TM and utilize TSW data for calibration of key input parameters, the salinity of TSW discharge water collected over the

initial 1.6 years (since long-term TSW pumping began in April 2015) was compared to output from the Excel spreadsheet. This required assessment of the size of the capture zone for the pumping of the test slant well, which was evaluated using the basic analytical equations for the width of the capture zone and the distance from the pumping well to the stagnation points (Fetter, 1994). Input to the analytical equations included K of 250 feet/day, pumping rate of 2,000 gpm, aquifer thickness of 200 feet, and hydraulic gradient of 0.001. The resulting capture zone area is approximately 80 acres.

An initial comparison/calibration was made using an ambient TDS of 25,400 mg/L and adjusting porosity (specific yield) within a range of 0.03 to 0.3. The best match of predicted to observed salinity was achieved with a porosity/specific yield of 0.15. The porosity/specific yield was then held constant at 0.15 and ambient TDS was evaluated in a range from 24,000 to 28,000 mg/L based on water quality data for the test slant well in April 2015 and nearby monitoring wells. Other inputs included precipitation recharge of 5 inches/year, and precipitation recharge salinity of 100 mg/L. These results indicated the best match was achieved with ambient TDS of 26,000 to 26,500 mg/L. The Excel spreadsheet OWP analysis along with a comparison to field TSW water quality data are provided in **Attachment C** and summarized in **Table 2**.

3.2.3 Evaluation of MPWSP Alternatives

3.2.3.1 Evaluation of 15.5 MGD Scenario

The MPWSP scenario that involved pumping of 15.5 MGD was evaluated for a range of hydraulic gradients (which affect size of capture volume), which subsequently affects the time necessary for seawater to flood the capture volume. The results of the OWP analysis for the 15.5 MGD Scenario are summarized in **Table 4** and detailed calculations are provided in **Attachment D**. The results of the OWP analysis indicate that the ultimate ocean water percentage (OWP) ranges from approximately 96 to 99 percent for the base case scenarios with three different hydraulic gradients. The OWP at the end of one year of continuous project pumping is predicted to range from about 88 to 93 percent (for 0.0007 and 0.0011 gradients), the time to reach an OWP of 90 percent is 0.7 to 1.4 years, and the time to reach an OWP of 95% is 1.4 to 2.9 years. A sensitivity analysis was completed for selected variables for the 0.0011 hydraulic gradient base case, which showed an ultimate OWP range from 96.4 to 99.6 (compared to base case of 98.8%), a time to reach OWP of 90% ranging from 0.3 to 1.2 years (compared to base case of 0.7 years), and a time to reach OWP of 95% ranging from 0.5 to 1.9 years (compared to base case of 1.4 years).

Table 4. Summary of 15.5 MGD Scenario OWP Analysis

| Hydraulic Gradient | Ambient Groundwater TDS (mg/L) | Porosity | OWP End Year 1 | OWP End Year 2 | OWP End Year 5 | Time to Reach 90% OWP (years) | Time to Reach 95% OWP (years) | Max OWP | Comments |
|--------------------|--------------------------------|----------|----------------|----------------|----------------|-------------------------------|-------------------------------|---------|-------------------------------------|
| 0.0004 | 26,000 | 0.15 | 82.6 | 86.3 | 92.4 | 3.5 | 9.1 | 95.8 | Not a Representative Local Gradient |
| 0.0007 | 26,000 | 0.15 | 87.6 | 92.7 | 97.0 | 1.4 | 2.9 | 97.6 | Minimum Gradient |
| 0.0011 | 26,000 | 0.15 | 92.9 | 97.2 | 98.8 | 0.7 | 1.4 | 98.8 | Average Gradient |
| 0.0011 | 25,400 | 0.15 | 92.4 | 97.1 | 98.8 | 0.9 | 1.6 | 98.8 | Assume TSW GW TDS |
| 0.0011 | 24,000 | 0.15 | 91.3 | 96.8 | 98.8 | 0.9 | 1.6 | 98.8 | Minimum GW TDS |
| 0.0011 | 28,000 | 0.15 | 94.6 | 97.7 | 98.8 | 0.5 | 1.1 | 98.8 | Maximum GW TDS |
| 0.0011 | 26,000 | 0.05 | 98.4 | 98.8 | 98.8 | 0.3 | 0.5 | 98.8 | Minimum Porosity |
| 0.0011 | 26,000 | 0.25 | 88.9 | 94.3 | 98.4 | 1.2 | 2.3 | 98.8 | Maximum Porosity |
| 0.0011 | 26,000 | 0.15 | 92.9 | 97.2 | 98.8 | 0.7 | 1.4 | 98.8 | Min Recharge TDS |
| 0.0011 | 26,000 | 0.15 | 92.9 | 97.2 | 98.8 | 0.7 | 1.4 | 98.8 | Max Recharge TDS |
| 0.0011 | 26,000 | 0.15 | 93.5 | 98.0 | 99.6 | 0.7 | 1.3 | 99.6 | Min Recharge Amount |
| 0.0011 | 26,000 | 0.15 | 92.5 | 96.7 | 98.2 | 0.8 | 1.5 | 98.2 | Max Recharge Amount |
| 0.0011 | 26,000 | 0.15 | 93.3 | 97.3 | 98.8 | 0.7 | 1.3 | 98.8 | Min Seawater TDS |
| 0.0011 | 26,000 | 0.15 | 92.0 | 97.0 | 98.8 | 0.8 | 1.5 | 98.8 | Max Seawater TDS |

3.2.3.2 Evaluation of 24.1 MGD Scenario

The MPWSP scenario that involved pumping of 24.1 MGD was evaluated for a range of hydraulic gradients (which affect size of capture volume), which subsequently affects the time necessary for seawater to flood the capture volume. The results of the OWP analysis for the 24.1 MGD Scenario are summarized in **Table 5** and detailed calculations are provided in **Attachment D**. The results of the OWP analysis indicate that the ultimate ocean water percentage (OWP) ranges from approximately 96 to 98

percent for the base case scenarios with three different hydraulic gradients. The OWP at the end of one year of continuous project pumping is predicted to range from about 87 to 90 percent (for 0.0007 and 0.0011 gradients), the time to reach an OWP of 90 percent is 1.0 to 1.5 years, and the time to reach an OWP of 95% is 2.0 to 3.1 years. A sensitivity analysis was completed for several variables for the 0.0011 hydraulic gradient base case, which showed an ultimate OWP range of 97.2 to 99.4 (compared to base case of 98.1%), a time to reach OWP of 90% ranging from 0.4 to 1.7 years (compared to base case of 1.0 years), and a time to reach OWP of 95% ranging from 0.7 to 3.1 years (compared to base case of 2.0 years).

Table 5. Summary of 24.1 MGD Scenario OWP Analysis

| Hydraulic Gradient | Ambient Groundwater TDS (mg/L) | Porosity | OWP End Year 1 | OWP End Year 2 | OWP End Year 5 | Time to Reach 90% OWP (years) | Time to Reach 95% OWP (years) | Max OWP | Comments |
|--------------------|--------------------------------|----------|----------------|----------------|----------------|-------------------------------|-------------------------------|---------|-------------------------------------|
| 0.0004 | 26,000 | 0.15 | 82.4 | 86.2 | 92.4 | 3.5 | 8.5 | 96.3 | Not a Representative Local Gradient |
| 0.0007 | 26,000 | 0.15 | 87.1 | 92.2 | 96.9 | 1.5 | 3.1 | 97.7 | Minimum Gradient |
| 0.0011 | 26,000 | 0.15 | 90.3 | 95.1 | 97.9 | 1.0 | 2.0 | 98.1 | Average Gradient |
| 0.0011 | 25,400 | 0.15 | 89.6 | 94.9 | 97.9 | 1.1 | 2.1 | 98.1 | Assume TSW GW TDS |
| 0.0011 | 24,000 | 0.15 | 88.0 | 94.3 | 97.9 | 1.3 | 2.2 | 98.1 | Minimum GW TDS |
| 0.0011 | 28,000 | 0.15 | 92.5 | 96.0 | 98.0 | 0.7 | 1.6 | 98.1 | Maximum GW TDS |
| 0.0011 | 26,000 | 0.05 | 97.0 | 98.0 | 98.1 | 0.4 | 0.7 | 98.1 | Minimum Porosity |
| 0.0011 | 26,000 | 0.25 | 86.5 | 91.6 | 97.0 | 1.7 | 3.3 | 98.1 | Maximum Porosity |
| 0.0011 | 26,000 | 0.15 | 90.3 | 95.1 | 97.9 | 1.0 | 2.0 | 98.1 | Min Recharge TDS |
| 0.0011 | 26,000 | 0.15 | 90.3 | 95.2 | 98.0 | 1.0 | 2.0 | 98.1 | Max Recharge TDS |
| 0.0011 | 26,000 | 0.15 | 91.1 | 96.3 | 99.3 | 0.9 | 1.7 | 99.4 | Min Recharge Amount |
| 0.0011 | 26,000 | 0.15 | 89.7 | 94.4 | 97.0 | 1.1 | 2.3 | 97.2 | Max Recharge Amount |
| 0.0011 | 26,000 | 0.15 | 90.7 | 95.3 | 98.0 | 1.0 | 1.9 | 98.1 | Min Seawater TDS |
| 0.0011 | 26,000 | 0.15 | 89.0 | 94.7 | 97.9 | 1.2 | 2.1 | 98.1 | Max Seawater TDS |

3.2.4 Discussion of OWP Results

Review of the results indicates that prediction of the short-term OWP is most influenced by the initial TDS concentration and porosity. The near term impact of the initial concentration is logical because the higher the initial concentration, the higher one would expect the pumped water concentration to be in the first year or so of project operation. The porosity is important because it controls the volume of aquifer that must be flushed to replace ambient brackish groundwater with ocean water. The lower the porosity the less the total volume of aquifer within the capture volume; thus, lower porosity results in higher near term salinity of the pumped water. The long term OWP is most influenced by the amount of recharge that occurs within the capture volume. This is logical because groundwater recharge is the only ongoing source of low TDS water that contributes to the capture volume. Therefore, greater overall groundwater recharge corresponds to a lower OWP, as indicated by the sensitivity analyses.

4.0 Summary and Conclusions

An equation was derived to calculate the expected ocean water percentage from the proposed project wells using basic assumptions as represented by the following equations:

$$[\text{Mass Inflows}] - [\text{Mass Outflow}] = [\text{Rate of Change in Mass Storage}]$$

or

$$Q_S C_S + Q_R C_R - Q_P C = V \frac{dC}{dt}$$

where Q_S is the rate of seawater inflow to the capture volume, Q_R is the rate of precipitation recharge to the capture volume, and Q_P is the rate of pumping from the capture volume, C_S is the seawater TDS, C_R is the recharge TDS, C is the volumetrically averaged groundwater TDS within capture volume, V is the water volume within capture volume, and t is time. The TDS within the Project pumped water is assumed to be the same as the concentration within the capture volume (C). The solution to the above Equation takes the form:

$$C = \frac{b}{a} + \left(C_0 - \frac{b}{a} \right) \exp(-at)$$

where

$$a = \frac{Q_P}{V}; b = \left(\frac{Q_S C_S + Q_R C_R}{V} \right); \text{ and } C_0 \text{ is the average TDS within the capture volume at the start of}$$

the Project pumping. Given parameter input values for proposed project well pumping rates, precipitation recharge rate, ocean water salinity, precipitation recharge salinity, capture volumes, ambient groundwater salinity, and effective porosity, the above equation yields the change over time in

the TDS within the capture volume and correspondingly in the Project pumped water. These results are normalized to the seawater TDS to obtain the change over time in the OWP.

The major conclusions of the OWP analysis are the following:

- The hydraulic gradients estimated by HydroFocus and used to model capture zones underestimate the hydraulic gradients in the project site vicinity. Therefore, results for the highest gradient used in this analysis (0.0011) are more representative of the average local gradient and the 0.0007 gradient is more representative of the minimum local gradient. Therefore, the 0.0004 gradient results are not considered in these conclusions.
- The primary conclusion of this study is that the long-term equilibrium ocean water percentage is estimated to range from 96 to 99 percent.
- The short-term ocean water percentage is estimated to range from 87-93% for one year and 92-97% for two years.
- Based on the scenarios evaluated, the continuous pumping time to reach 90% OWP is estimated to range from about 0.3 to 1.7 years.
- Based on the scenarios evaluated, the continuous pumping time to reach 95% OWP is estimated to range from about 0.5 to 3.1 years.

Sincerely,

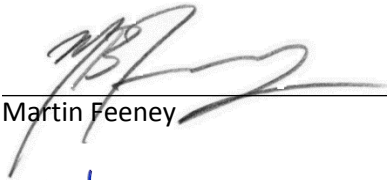
The Hydrogeologic Working Group (Dennis Williams, Tim Durbin, Martin Feeney, Peter Leffler)



Dennis Williams



Tim Durbin



Martin Feeney



Peter Leffler

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FIGURES

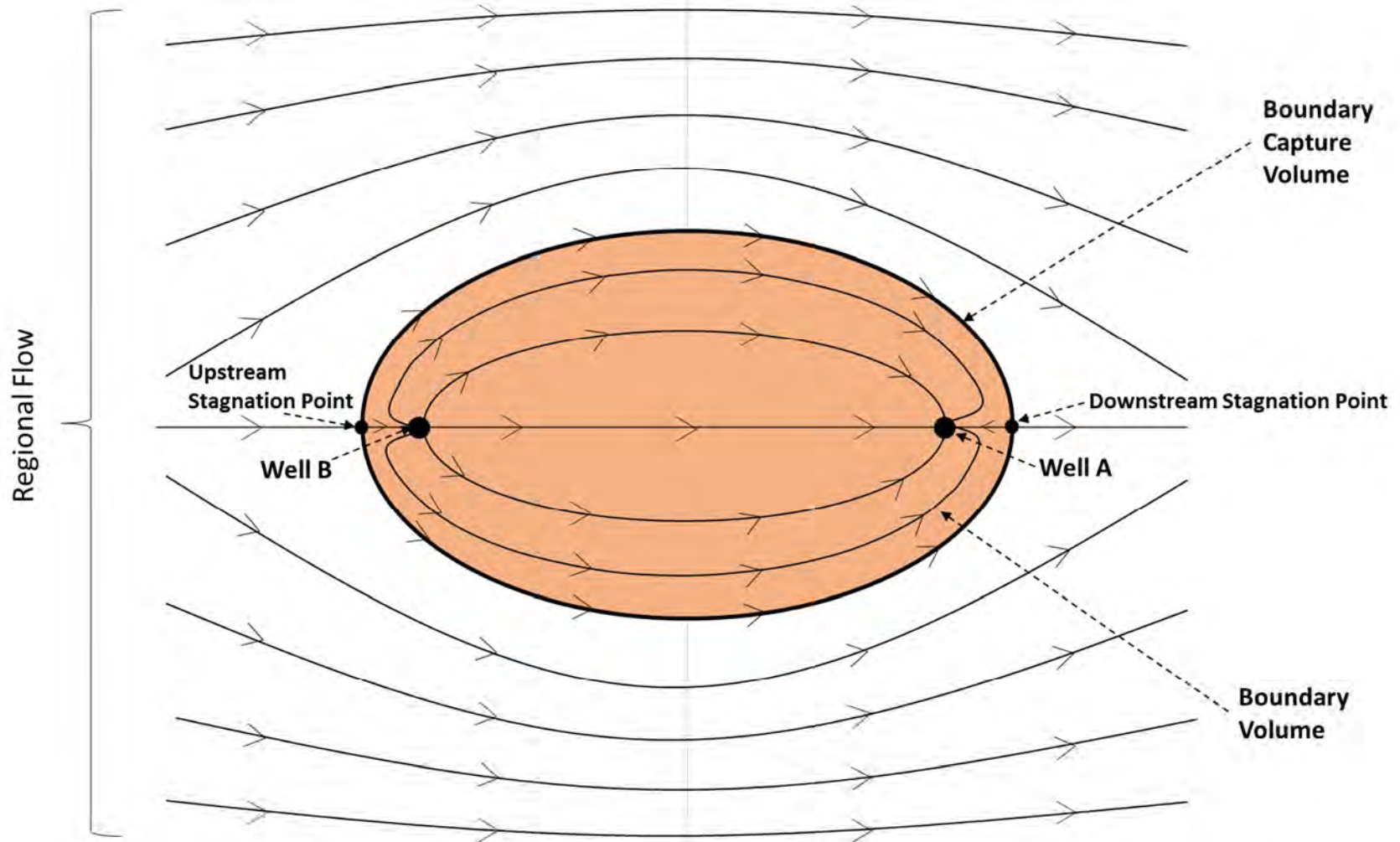
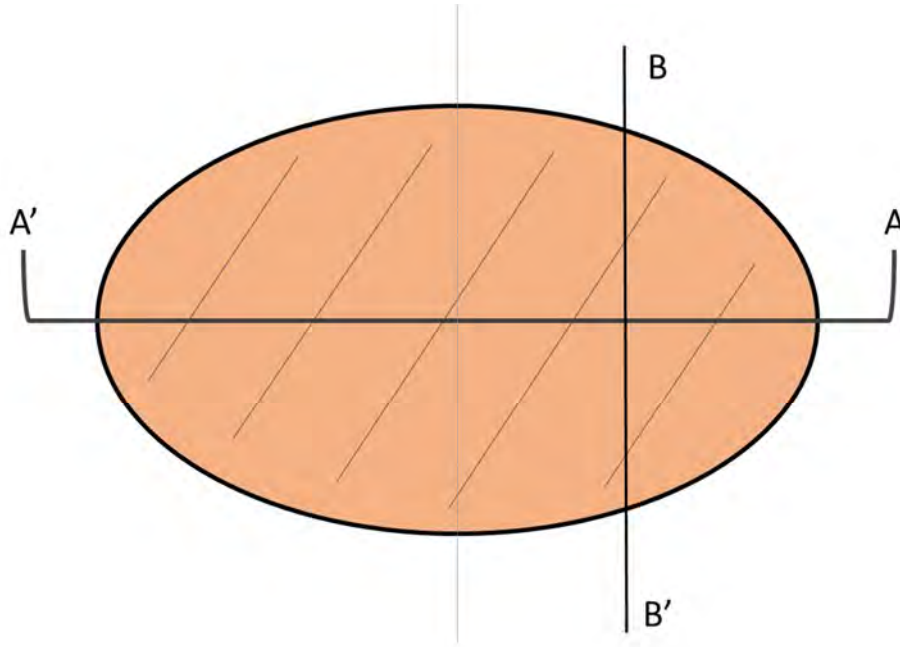
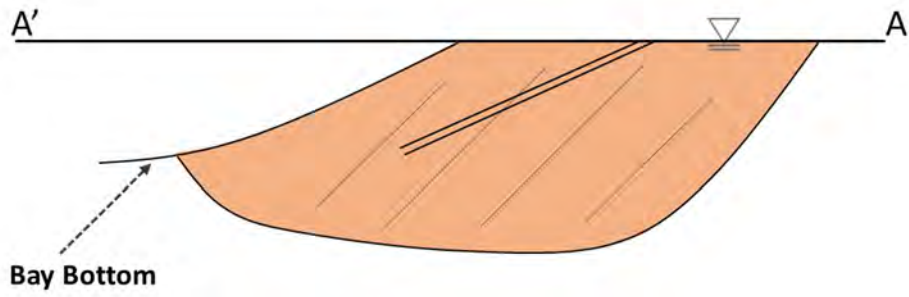


Figure 1 – Capture Zone Schematic

a)



b)



c)

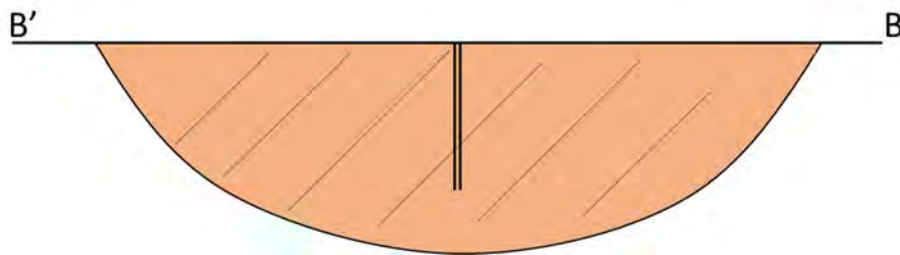


Figure 2 – Capture Volume Cross-Sections

ATTACHMENT A

Table A-1. Capture Zone Analysis Summary

| Site | Pumping Rate (MGD) | Average Gradient | Capture Zone | Calibrated NMGWM (1979-2011) | | Calibrated NMGWM (1979-2011) | Capture Zone Area of Model Cells (ft ²) | | Capture Zone Area of Model Cells (acres) | | Capture Zone Volume of Model Cells (ft ³) | | Capture Zone Volume of Model Cells (AF) | |
|-------|--------------------|------------------|--------------|------------------------------|-----------------------------|------------------------------|---|--------------------------------|--|--------------------------------|---|--------------------------------|---|--------------------------------|
| | | | | Minimum Recharge (AF/month) | Maximum Recharge (AF/month) | Average Recharge (AF/month) | Dune Sand/A-Aquifer Layer 2 | 180-FT/180-FTE Aquifer Layer 4 | Dune Sand/A-Aquifer Layer 2 | 180-FT/180-FTE Aquifer Layer 4 | Dune Sand/A-Aquifer Layer 2 + 3 | 180-FT/180-FTE Aquifer Layer 4 | Dune Sand/A-Aquifer Layer 2 + 3 | 180-FT/180-FTE Aquifer Layer 4 |
| CEMEX | 24.1 | -0.0004 | Ocean | 20.3 | 1075 | 80.6 | 103,240,000 | 98,240,000 | 2,370 | 2,255 | 8,878,786,404 | 15,915,278,805 | 203,829 | 365,365 |
| CEMEX | 24.1 | -0.0007 | Ocean | 11.0 | 656 | 46.5 | 63,920,000 | 43,200,000 | 1,467 | 992 | 5,483,088,001 | 6,547,617,998 | 125,874 | 150,313 |
| CEMEX | 24.1 | -0.0011 | Ocean | 8.8 | 538 | 39.1 | 52,840,000 | 23,080,000 | 1,213 | 530 | 4,729,366,801 | 3,313,562,398 | 108,571 | 76,069 |
| CEMEX | 15.5 | -0.0004 | Ocean | 13.3 | 777 | 54.4 | 74,480,000 | 56,120,000 | 1,710 | 1,288 | 6,355,194,000 | 8,707,177,598 | 145,895 | 199,889 |
| CEMEX | 15.5 | -0.0007 | Ocean | 8.1 | 502 | 34.8 | 43,360,000 | 22,280,000 | 995 | 511 | 3,927,669,601 | 3,197,953,599 | 90,167 | 73,415 |
| CEMEX | 15.5 | -0.0011 | Ocean | 3.3 | 278 | 15.6 | 21,440,000 | 13,760,000 | 492 | 316 | 1,958,632,000 | 1,927,258,801 | 44,964 | 44,244 |
| | | | | | | Inches/Year | | | Thickness (feet) | Thickness (feet) | | | Combined Aquifers | Adjusted Thickness (feet) |
| CEMEX | 24.1 | -0.0004 | Ocean | | | 4.9 | | | 86 | 162 | | | | 240 |
| CEMEX | 24.1 | -0.0007 | Ocean | | | 4.6 | | | 86 | 152 | | | | 188 |
| CEMEX | 24.1 | -0.0011 | Ocean | | | 4.6 | | | 90 | 144 | | | | 152 |
| CEMEX | 15.5 | -0.0004 | Ocean | | | 4.6 | | | 85 | 155 | | | | 202 |
| CEMEX | 15.5 | -0.0007 | Ocean | | | 5.0 | | | 91 | 144 | | | | 164 |
| CEMEX | 15.5 | -0.0011 | Ocean | | | 4.6 | | | 91 | 140 | | | | 181 |

Using the shapefile "Capture_zones_with_gradient", definition queried in GIS each individual capture zone
 For each capture zone, selected cells from the NMGWM which have their centroids within the capture zone

1. Calculated recharge for each capture zone
 - Created individual zone files using the selected cells from the layer 2 capture zones as a separate zone from the remaining model cells
 - Ran ZONEBUDGET on the calibrated NMGWM
 - For each stress period, summarized recharge within the capture zone cells by minimum, maximum, and average
2. Calculated area for each capture zone
 - For each selected cell within the capture zone, calculated the area by multiplying by the cell length and width (200' x 200')
 - Summed all areas
 - Converted area from square feet to acres
3. Calculated volume for each capture zone
 - For each selected cell within the capture zone, calculated the volume by multiplying by the cell length and width (200' x 200') by the cell thickness in ft
 - For Dune Sand/A-Aquifer, the cell area was multiplied by the thickness of layer 2 + thickness of layer 3
 - For 180-FT/180-FTE, the cell area was multiplied by the thickness of layer 4
 - Summed all volumes
 - Converted volume from cubic feet to acre-feet

ATTACHMENT B

Table B-1. Precipitation Recharge Water Balance for CEMEX Site Area - Average Conditions

| Month | Precip | ETo | Net Infiltration |
|-----------|--------|-------|------------------|
| January | 2.88 | 1.24 | 1.64 |
| February | 2.93 | 1.68 | 1.25 |
| March | 2.46 | 3.10 | 0.00 |
| April | 1.30 | 3.90 | 0.00 |
| May | 0.37 | 4.65 | 0.00 |
| June | 0.07 | 5.10 | 0.00 |
| July | 0.02 | 4.96 | 0.00 |
| August | 0.03 | 4.65 | 0.00 |
| September | 0.15 | 3.90 | 0.00 |
| October | 0.69 | 2.79 | 0.00 |
| November | 1.61 | 1.80 | 0.00 |
| December | 2.31 | 1.24 | 1.07 |
| Annual | 14.82 | 39.01 | 3.96 |

27% of Average Annual Precip

Notes: Monthly Precipitation Data from Prism 1981-2010 Averages;
 Eto based on CIMIS Zone 2; Net Infiltration Calcs assume no soil moisture holding capacity from one month to next and no runoff

Table B-2. Precipitation Recharge Water Balance for CEMEX Site Area - Maximum Conditions

| Month | Precip | ETo | Net Infiltration |
|-----------|--------|-------|------------------|
| January | 2.88 | 0.93 | 1.95 |
| February | 2.93 | 1.40 | 1.53 |
| March | 2.46 | 2.48 | 0.00 |
| April | 1.30 | 3.30 | 0.00 |
| May | 0.37 | 4.03 | 0.00 |
| June | 0.07 | 4.50 | 0.00 |
| July | 0.02 | 4.65 | 0.00 |
| August | 0.03 | 4.03 | 0.00 |
| September | 0.15 | 3.30 | 0.00 |
| October | 0.69 | 2.48 | 0.00 |
| November | 1.61 | 1.20 | 0.41 |
| December | 2.31 | 0.62 | 1.69 |
| Annual | 14.82 | 32.92 | 5.58 |

38% of Average Annual Precip

Notes: Monthly Precipitation Data from Prism 1981-2010 Averages;
 Eto based on CIMIS Zone 1; Net Infiltration Calcs assume no soil moisture holding capacity from one month to next and no runoff

Table B-3. Precipitation Recharge Water Balance for CEMEX Site Area - Minimum Conditions

| Month | Precip | ETo | Net Infiltration |
|-----------|--------|-------|------------------|
| January | 2.88 | 1.86 | 1.02 |
| February | 2.93 | 2.24 | 0.69 |
| March | 2.46 | 3.72 | 0.00 |
| April | 1.30 | 4.80 | 0.00 |
| May | 0.37 | 5.27 | 0.00 |
| June | 0.07 | 5.70 | 0.00 |
| July | 0.02 | 5.58 | 0.00 |
| August | 0.03 | 5.27 | 0.00 |
| September | 0.15 | 4.20 | 0.00 |
| October | 0.69 | 3.41 | 0.00 |
| November | 1.61 | 2.40 | 0.00 |
| December | 2.31 | 1.86 | 0.45 |
| Annual | 14.82 | 46.31 | 2.16 |

15% of Average Annual Precip

Notes: Monthly Precipitation Data from Prism 1981-2010 Averages;
 Eto based on CIMIS Zone 1; Net Infiltration Calcs assume no soil moisture holding capacity from one month to next and no runoff

ATTACHMENT C

Table C-1a. OWP Analysis for Test Slant Well with Initial TDS of 25,400 mg/L and Specific Yield of 0.15.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 25400.0 | 75.5 | 25400.0 | 75.5 | | | | |
| φ | 0.15 | 0.06 | 26000.9 | 77.3 | 27600.0 | 82.1 | 4.8 | | 4.8 | |
| V | 2,400.0 acre-ft | 0.12 | 26555.2 | 79.0 | 29100.0 | 86.7 | 7.7 | | 7.7 | |
| QS | 3,193 acre-ft/yr | 0.3 | 27973.4 | 83.3 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 28625.1 | 85.2 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 29194.8 | 87.0 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 29692.8 | 88.5 | 29800.0 | 88.8 | 0.3 | | 0.3 | |
| CR | 100 mg/L | 0.7 | 30128.2 | 89.8 | 30100.0 | 89.7 | -0.1 | | 0.1 | |
| CO | 25,400 mg/L | 0.8 | 30508.9 | 90.9 | 31400.0 | 93.6 | 2.7 | | 2.7 | |
| | | 0.9 | 30841.6 | 91.9 | TSW Off | | | | | |
| | | 1 | 31132.5 | 92.8 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 1.34 | 1.1 | 31386.9 | 93.6 | 32200.0 | 96.1 | 2.5 | | 2.5 | |
| b | 44,565 | 1.2 | 31609.2 | 94.3 | 31000.0 | 92.4 | -1.8 | | 1.8 | |
| | | 1.3 | 31803.6 | 94.9 | 30800.0 | 91.8 | -3.0 | | 3.0 | |
| | | 1.4 | 31973.5 | 95.4 | 31200.0 | 93.0 | -2.3 | | 2.3 | |
| | | 1.5 | 32122.1 | 95.8 | 31400.0 | 93.6 | -2.2 | | 2.2 | |
| | | 1.6 | 32251.9 | 96.2 | 31800.0 | 94.8 | -1.4 | 0.65 | 1.4 | 2.63 |
| | | 2 | 32627.3 | 97.4 | | | | | | |
| | | 2.5 | 32885.4 | 98.1 | | | | | | |
| | | 3 | 33017.1 | 98.5 | | | | | | |
| | | 4 | 33118.8 | 98.8 | | | | | | |
| | | 5 | 33145.3 | 98.9 | | | | | | |
| | | 6 | 33152.2 | 98.9 | | | | | | |
| | | 7 | 33154.0 | 99.0 | | | | | | |
| | | 8 | 33154.4 | 99.0 | | | | | | |
| | | 9 | 33154.6 | 99.0 | | | | | | |
| | | 10 | 33154.6 | 99.0 | | | | | | |
| | | 12 | 33154.6 | 99.0 | | | | | | |
| | | 14 | 33154.6 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
| | | 62 | 33154.6 | 99.0 | | | | | | |
| | | 63 | 33154.6 | 99.0 | | | | | | |

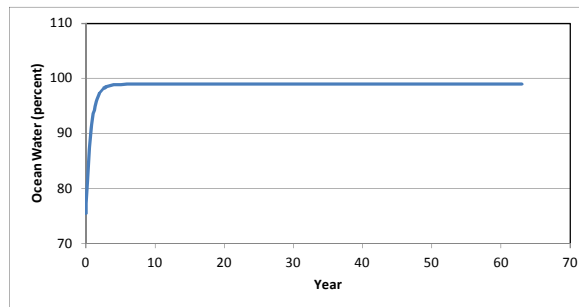
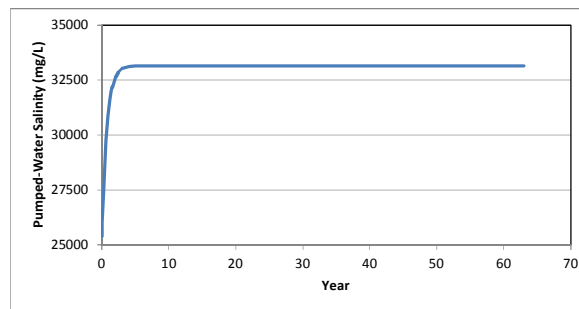


Table C-1b. OWP Analysis for Test Slant Well with Initial TDS of 25,400 mg/L and Specific Yield of 0.05.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 25400.0 | 75.5 | 25400.0 | 75.5 | | | | |
| φ | 0.05 | 0.06 | 27066.5 | 80.5 | 27600.0 | 82.1 | 1.6 | | 1.6 | |
| V | 800.0 acre-ft | 0.12 | 28374.9 | 84.5 | 29100.0 | 86.7 | 2.2 | | 2.2 | |
| QS | 3,193 acre-ft/yr | 0.3 | 30841.6 | 91.9 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 31609.2 | 94.3 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 32122.1 | 95.8 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 32464.7 | 96.9 | 29800.0 | 88.8 | -8.1 | | 8.1 | |
| CR | 100 mg/L | 0.7 | 32693.7 | 97.6 | 30100.0 | 89.7 | -7.9 | | 7.9 | |
| CO | 25,400 mg/L | 0.8 | 32846.6 | 98.0 | 31400.0 | 93.6 | -4.4 | | 4.4 | |
| | | 0.9 | 32948.8 | 98.3 | TSW Off | | | | | |
| | | 1 | 33017.1 | 98.5 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 4.03 | 1.1 | 33062.7 | 98.7 | 32200.0 | 96.1 | -2.6 | | 2.6 | |
| b | 133,696 | 1.2 | 33093.2 | 98.8 | 31000.0 | 92.4 | -6.3 | | 6.3 | |
| | | 1.3 | 33113.6 | 98.8 | 30800.0 | 91.8 | -7.0 | | 7.0 | |
| | | 1.4 | 33127.2 | 98.9 | 31200.0 | 93.0 | -5.8 | | 5.8 | |
| | | 1.5 | 33136.3 | 98.9 | 31400.0 | 93.6 | -5.3 | | 5.3 | |
| | | 1.6 | 33142.4 | 98.9 | 31800.0 | 94.8 | -4.1 | -4.33 | 4.1 | 5.02 |
| | | 2 | 33152.2 | 98.9 | | | | | | |
| | | 2.5 | 33154.3 | 99.0 | | | | | | |
| | | 3 | 33154.6 | 99.0 | | | | | | |
| | | 4 | 33154.6 | 99.0 | | | | | | |
| | | 5 | 33154.6 | 99.0 | | | | | | |
| | | 6 | 33154.6 | 99.0 | | | | | | |
| | | 7 | 33154.6 | 99.0 | | | | | | |
| | | 8 | 33154.6 | 99.0 | | | | | | |
| | | 9 | 33154.6 | 99.0 | | | | | | |
| | | 10 | 33154.6 | 99.0 | | | | | | |
| | | 12 | 33154.6 | 99.0 | | | | | | |
| | | 14 | 33154.6 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
| | | 62 | 33154.6 | 99.0 | | | | | | |
| | | 63 | 33154.6 | 99.0 | | | | | | |

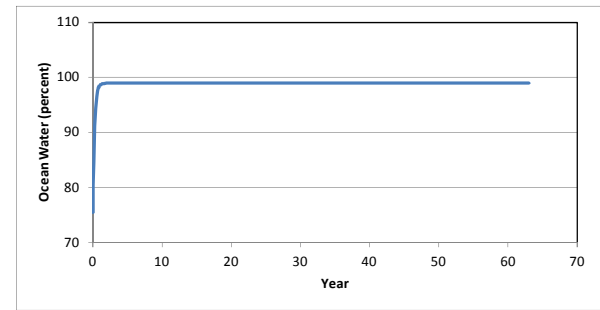
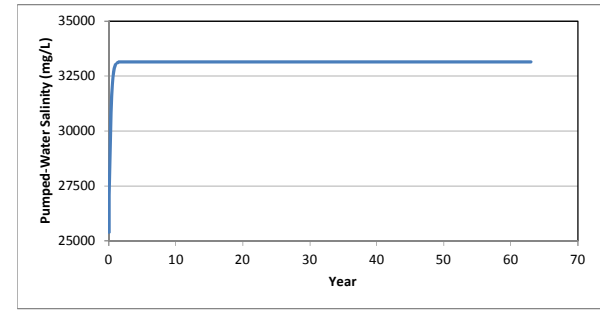


Table C-1c. OWP Analysis for Test Slant Well with Initial TDS of 25,400 mg/L and Specific Yield of 0.25.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 25400.0 | 75.5 | 25400.0 | 75.5 | | | | |
| φ | 0.25 | 0.06 | 25766.3 | 76.6 | 27600.0 | 82.1 | 5.6 | | 5.6 | |
| V | 4,000.0 acre-ft | 0.12 | 26115.3 | 77.6 | 29100.0 | 86.7 | 9.0 | | 9.0 | |
| QS | 3,193 acre-ft/yr | 0.3 | 27066.5 | 80.5 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 27538.2 | 81.9 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 27973.4 | 83.3 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 28374.9 | 84.5 | 29800.0 | 88.8 | 4.3 | | 4.3 | |
| CR | 100 mg/L | 0.7 | 28745.2 | 85.6 | 30100.0 | 89.7 | 4.1 | | 4.1 | |
| CO | 25,400 mg/L | 0.8 | 29086.9 | 86.6 | 31400.0 | 93.6 | 7.0 | | 7.0 | |
| | | 0.9 | 29402.1 | 87.6 | TSW Off | | | | | |
| | | 1 | 29692.8 | 88.5 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 0.81 | 1.1 | 29961.0 | 89.3 | 32200.0 | 96.1 | 6.8 | | 6.8 | |
| b | 26,739 | 1.2 | 30208.5 | 90.0 | 31000.0 | 92.4 | 2.4 | | 2.4 | |
| | | 1.3 | 30436.8 | 90.7 | 30800.0 | 91.8 | 1.1 | | 1.1 | |
| | | 1.4 | 30647.4 | 91.4 | 31200.0 | 93.0 | 1.7 | | 1.7 | |
| | | 1.5 | 30841.6 | 91.9 | 31400.0 | 93.6 | 1.7 | | 1.7 | |
| | | 1.6 | 31020.8 | 92.5 | 31800.0 | 94.8 | 2.4 | 4.19 | 2.4 | 4.19 |
| | | 2 | 31609.2 | 94.3 | | | | | | |
| | | 2.5 | 32122.1 | 95.8 | | | | | | |
| | | 3 | 32464.7 | 96.9 | | | | | | |
| | | 4 | 32846.6 | 98.0 | | | | | | |
| | | 5 | 33017.1 | 98.5 | | | | | | |
| | | 6 | 33093.2 | 98.8 | | | | | | |
| | | 7 | 33127.2 | 98.9 | | | | | | |
| | | 8 | 33142.4 | 98.9 | | | | | | |
| | | 9 | 33149.2 | 98.9 | | | | | | |
| | | 10 | 33152.2 | 98.9 | | | | | | |
| | | 12 | 33154.1 | 99.0 | | | | | | |
| | | 14 | 33154.5 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
| | | 62 | 33154.6 | 99.0 | | | | | | |
| | | 63 | 33154.6 | 99.0 | | | | | | |

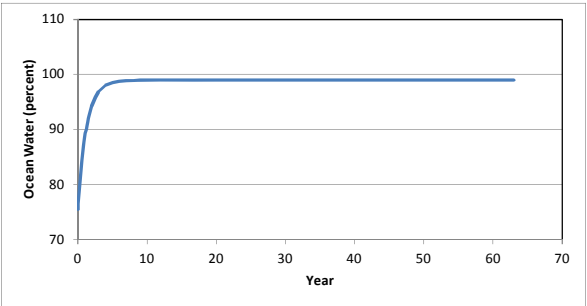
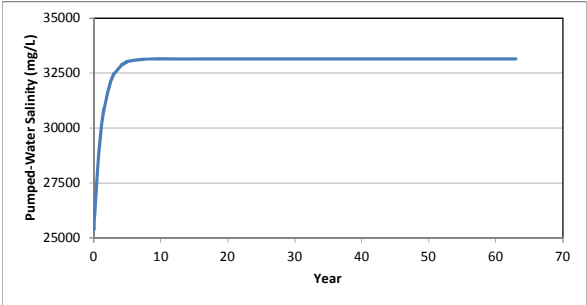


Table C-2a. OWP Analysis for Test Slant Well with Initial TDS of 26,000 mg/L and Specific Yield of 0.15.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 26000.0 | 77.3 | 25400.0 | 75.5 | | | | |
| φ | 0.15 | 0.06 | 26554.4 | 79.0 | 27600.0 | 82.1 | 3.2 | | 3.2 | |
| V | 2,400.0 acre-ft | 0.12 | 27065.8 | 80.5 | 29100.0 | 86.7 | 6.2 | | 6.2 | |
| QS | 3,193 acre-ft/yr | 0.3 | 28374.3 | 84.5 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 28975.5 | 86.3 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 29501.2 | 87.9 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 29960.7 | 89.3 | 29800.0 | 88.8 | -0.5 | | 0.5 | |
| CR | 100 mg/L | 0.7 | 30362.4 | 90.5 | 30100.0 | 89.7 | -0.8 | | 0.8 | |
| CO | 26,000 mg/L | 0.8 | 30713.6 | 91.6 | 31400.0 | 93.6 | 2.1 | | 2.1 | |
| | | 0.9 | 31020.6 | 92.5 | TSW Off | | | | | |
| | | 1 | 31289.0 | 93.3 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 1.34 | 1.1 | 31523.6 | 94.0 | 32200.0 | 96.1 | 2.0 | | 2.0 | |
| b | 44,565 | 1.2 | 31728.8 | 94.6 | 31000.0 | 92.4 | -2.2 | | 2.2 | |
| | | 1.3 | 31908.1 | 95.2 | 30800.0 | 91.8 | -3.4 | | 3.4 | |
| | | 1.4 | 32064.9 | 95.7 | 31200.0 | 93.0 | -2.6 | | 2.6 | |
| | | 1.5 | 32201.9 | 96.1 | 31400.0 | 93.6 | -2.4 | | 2.4 | |
| | | 1.6 | 32321.8 | 96.4 | 31800.0 | 94.8 | -1.6 | 0.00 | 1.6 | 2.45 |
| | | 2 | 32668.1 | 97.5 | | | | | | |
| | | 2.5 | 32906.2 | 98.2 | | | | | | |
| | | 3 | 33027.8 | 98.6 | | | | | | |
| | | 4 | 33121.5 | 98.9 | | | | | | |
| | | 5 | 33146.0 | 98.9 | | | | | | |
| | | 6 | 33152.4 | 98.9 | | | | | | |
| | | 7 | 33154.0 | 99.0 | | | | | | |
| | | 8 | 33154.5 | 99.0 | | | | | | |
| | | 9 | 33154.6 | 99.0 | | | | | | |
| | | 10 | 33154.6 | 99.0 | | | | | | |
| | | 12 | 33154.6 | 99.0 | | | | | | |
| | | 14 | 33154.6 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
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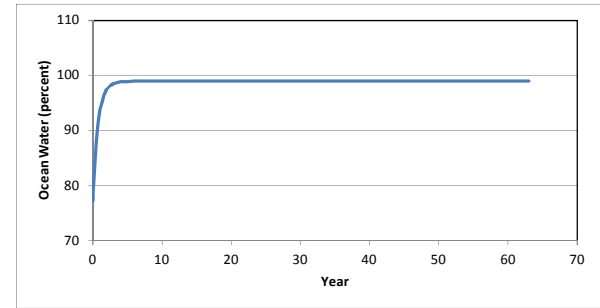
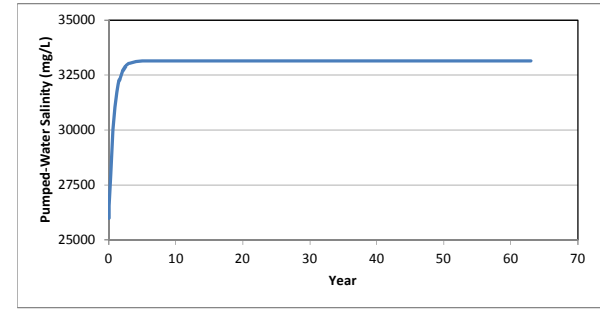


Table C-2b. OWP Analysis for Test Slant Well with Initial TDS of 24,000 mg/L and Specific Yield of 0.15.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 24000.0 | 71.2 | 25400.0 | 75.5 | | | | |
| φ | 0.15 | 0.06 | 24709.3 | 73.4 | 27600.0 | 82.1 | 8.8 | | 8.8 | |
| V | 2,400.0 acre-ft | 0.12 | 25363.7 | 75.3 | 29100.0 | 86.7 | 11.3 | | 11.3 | |
| QS | 3,193 acre-ft/yr | 0.3 | 27038.0 | 80.4 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 27807.3 | 82.7 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 28479.9 | 84.8 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 29067.8 | 86.6 | 29800.0 | 88.8 | 2.2 | | 2.2 | |
| CR | 100 mg/L | 0.7 | 29581.8 | 88.1 | 30100.0 | 89.7 | 1.6 | | 1.6 | |
| CO | 24,000 mg/L | 0.8 | 30031.2 | 89.5 | 31400.0 | 93.6 | 4.1 | | 4.1 | |
| | | 0.9 | 30424.0 | 90.7 | TSW Off | | | | | |
| | | 1 | 30767.5 | 91.7 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 1.34 | 1.1 | 31067.7 | 92.6 | 32200.0 | 96.1 | 3.4 | | 3.4 | |
| b | 44,565 | 1.2 | 31330.2 | 93.4 | 31000.0 | 92.4 | -1.0 | | 1.0 | |
| | | 1.3 | 31559.7 | 94.1 | 30800.0 | 91.8 | -2.3 | | 2.3 | |
| | | 1.4 | 31760.3 | 94.7 | 31200.0 | 93.0 | -1.7 | | 1.7 | |
| | | 1.5 | 31935.6 | 95.3 | 31400.0 | 93.6 | -1.6 | | 1.6 | |
| | | 1.6 | 32089.0 | 95.7 | 31800.0 | 94.8 | -0.9 | 2.18 | 0.9 | 3.54 |
| | | 2 | 32532.2 | 97.1 | | | | | | |
| | | 2.5 | 32836.8 | 98.0 | | | | | | |
| | | 3 | 32992.3 | 98.5 | | | | | | |
| | | 4 | 33112.3 | 98.8 | | | | | | |
| | | 5 | 33143.6 | 98.9 | | | | | | |
| | | 6 | 33151.7 | 98.9 | | | | | | |
| | | 7 | 33153.9 | 99.0 | | | | | | |
| | | 8 | 33154.4 | 99.0 | | | | | | |
| | | 9 | 33154.6 | 99.0 | | | | | | |
| | | 10 | 33154.6 | 99.0 | | | | | | |
| | | 12 | 33154.6 | 99.0 | | | | | | |
| | | 14 | 33154.6 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
| | | 62 | 33154.6 | 99.0 | | | | | | |
| | | 63 | 33154.6 | 99.0 | | | | | | |

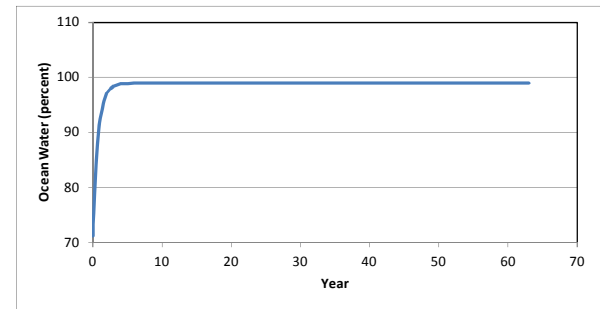
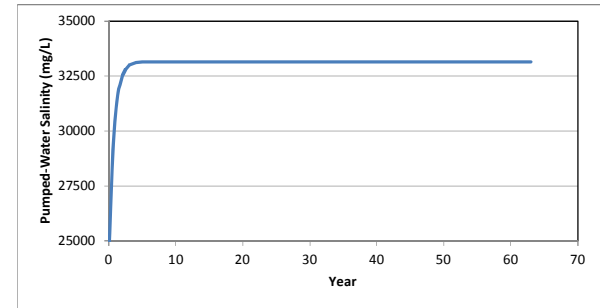
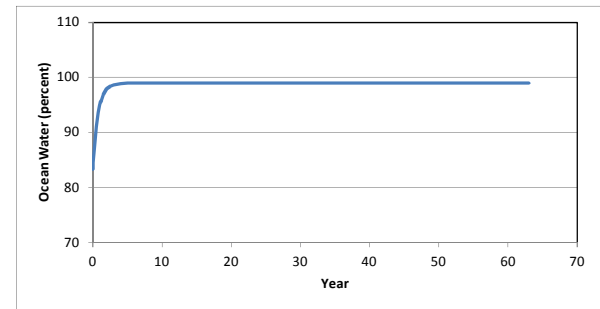
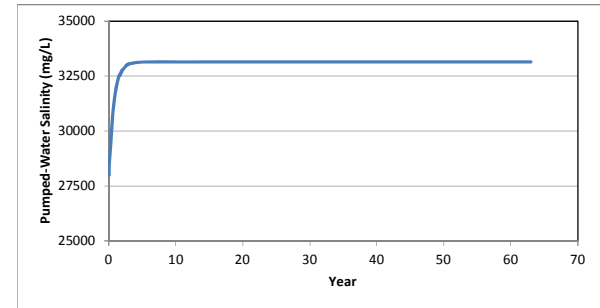


Table C-2c. OWP Analysis for Test Slant Well with Initial TDS of 28,000 mg/L and Specific Yield of 0.15.

| Parameters | | t (yr) | C Predicted (mg/L) | OWP Predicted (percent) | C Actual (mg/L) | OWP Actual (percent) | OWP Difference (Actual - Predicted) | Avg. OWP Difference | OWP Abs. Difference (Actual - Predicted) | Abs. OWP Difference |
|------------|------------------|--------|--------------------|-------------------------|------------------------------|----------------------|-------------------------------------|---------------------|--|---------------------|
| A | 80 acres | | | | | | | | | |
| B | 200.0 ft | 0 | 28000.0 | 83.3 | 25400.0 | 75.5 | | | | |
| φ | 0.15 | 0.06 | 28399.4 | 84.5 | 27600.0 | 82.1 | -2.4 | | 2.4 | |
| V | 2,400.0 acre-ft | 0.12 | 28767.8 | 85.7 | 29100.0 | 86.7 | 1.0 | | 1.0 | |
| QS | 3,193 acre-ft/yr | 0.3 | 29710.6 | 88.5 | TSW Off | | | | | |
| QR | 33 acre-ft/yr | 0.4 | 30143.8 | 89.8 | TSW Off | | | | | |
| QP | 3,226 acre-ft/yr | 0.5 | 30522.4 | 91.0 | TSW Pumping Restart 10/27/15 | | | | | |
| CS | 33,500 mg/L | 0.6 | 30853.5 | 92.0 | 29800.0 | 88.8 | -3.2 | | 3.2 | |
| CR | 100 mg/L | 0.7 | 31142.9 | 92.9 | 30100.0 | 89.7 | -3.2 | | 3.2 | |
| CO | 28,000 mg/L | 0.8 | 31395.9 | 93.6 | 31400.0 | 93.6 | 0.0 | | 0.0 | |
| | | 0.9 | 31617.1 | 94.3 | TSW Off | | | | | |
| | | 1 | 31810.5 | 94.9 | TSW Pumping Restart 5/2/16 | | | | | |
| a | 1.34 | 1.1 | 31979.6 | 95.4 | 32200.0 | 96.1 | 0.7 | | 0.7 | |
| b | 44,565 | 1.2 | 32127.4 | 95.8 | 31000.0 | 92.4 | -3.4 | | 3.4 | |
| | | 1.3 | 32256.6 | 96.2 | 30800.0 | 91.8 | -4.4 | | 4.4 | |
| | | 1.4 | 32369.5 | 96.6 | 31200.0 | 93.0 | -3.5 | | 3.5 | |
| | | 1.5 | 32468.3 | 96.9 | 31400.0 | 93.6 | -3.2 | | 3.2 | |
| | | 1.6 | 32554.6 | 97.1 | 31800.0 | 94.8 | -2.3 | -2.18 | 2.3 | 2.49 |
| | | 2 | 32804.1 | 97.9 | | | | | | |
| | | 2.5 | 32975.6 | 98.4 | | | | | | |
| | | 3 | 33063.2 | 98.7 | | | | | | |
| | | 4 | 33130.8 | 98.9 | | | | | | |
| | | 5 | 33148.4 | 98.9 | | | | | | |
| | | 6 | 33153.0 | 98.9 | | | | | | |
| | | 7 | 33154.2 | 99.0 | | | | | | |
| | | 8 | 33154.5 | 99.0 | | | | | | |
| | | 9 | 33154.6 | 99.0 | | | | | | |
| | | 10 | 33154.6 | 99.0 | | | | | | |
| | | 12 | 33154.6 | 99.0 | | | | | | |
| | | 14 | 33154.6 | 99.0 | | | | | | |
| | | 16 | 33154.6 | 99.0 | | | | | | |
| | | 18 | 33154.6 | 99.0 | | | | | | |
| | | 20 | 33154.6 | 99.0 | | | | | | |
| | | 22 | 33154.6 | 99.0 | | | | | | |
| | | 24 | 33154.6 | 99.0 | | | | | | |
| | | 26 | 33154.6 | 99.0 | | | | | | |
| | | 28 | 33154.6 | 99.0 | | | | | | |
| | | 30 | 33154.6 | 99.0 | | | | | | |
| | | 32 | 33154.6 | 99.0 | | | | | | |
| | | 35 | 33154.6 | 99.0 | | | | | | |
| | | 38 | 33154.6 | 99.0 | | | | | | |
| | | 40 | 33154.6 | 99.0 | | | | | | |
| | | 41 | 33154.6 | 99.0 | | | | | | |
| | | 42 | 33154.6 | 99.0 | | | | | | |
| | | 43 | 33154.6 | 99.0 | | | | | | |
| | | 44 | 33154.6 | 99.0 | | | | | | |
| | | 45 | 33154.6 | 99.0 | | | | | | |
| | | 46 | 33154.6 | 99.0 | | | | | | |
| | | 47 | 33154.6 | 99.0 | | | | | | |
| | | 48 | 33154.6 | 99.0 | | | | | | |
| | | 49 | 33154.6 | 99.0 | | | | | | |
| | | 50 | 33154.6 | 99.0 | | | | | | |
| | | 51 | 33154.6 | 99.0 | | | | | | |
| | | 52 | 33154.6 | 99.0 | | | | | | |
| | | 53 | 33154.6 | 99.0 | | | | | | |
| | | 54 | 33154.6 | 99.0 | | | | | | |
| | | 55 | 33154.6 | 99.0 | | | | | | |
| | | 56 | 33154.6 | 99.0 | | | | | | |
| | | 57 | 33154.6 | 99.0 | | | | | | |
| | | 58 | 33154.6 | 99.0 | | | | | | |
| | | 59 | 33154.6 | 99.0 | | | | | | |
| | | 60 | 33154.6 | 99.0 | | | | | | |
| | | 61 | 33154.6 | 99.0 | | | | | | |
| | | 62 | 33154.6 | 99.0 | | | | | | |
| | | 63 | 33154.6 | 99.0 | | | | | | |



ATTACHMENT D

Table D-1. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0004.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,710 acres | | | |
| B | 202 ft | 0 | 26000.0 | 77.3 |
| φ | 0.15 | 1 | 27745.0 | 82.6 |
| V | 51,813.0 acre-ft | 2 | 28993.1 | 86.3 |
| QS | 16,650 acre-ft/yr | 3 | 29885.8 | 89.0 |
| QR | 713 acre-ft/yr | 4 | 30524.3 | 91.0 |
| QP | 17,363 acre-ft/yr | 5 | 30981.1 | 92.4 |
| CS | 33,500 mg/L | 6 | 31307.7 | 93.4 |
| CR | 100 mg/L | 7 | 31541.4 | 94.1 |
| CO | 26,000 mg/L | 8 | 31708.5 | 94.6 |
| | | 9 | 31828.0 | 94.9 |
| | | 10 | 31913.5 | 95.2 |
| a | 0.34 | 11 | 31974.7 | 95.4 |
| b | 10,766 | 12 | 32018.4 | 95.5 |
| | | 13 | 32049.7 | 95.6 |
| | | 14 | 32072.1 | 95.7 |
| | | 15 | 32088.1 | 95.7 |
| | | 16 | 32099.6 | 95.8 |
| | | 17 | 32107.7 | 95.8 |
| | | 18 | 32113.6 | 95.8 |
| | | 19 | 32117.8 | 95.8 |
| | | 20 | 32120.8 | 95.8 |
| | | 21 | 32122.9 | 95.8 |
| | | 22 | 32124.5 | 95.8 |
| | | 23 | 32125.6 | 95.8 |
| | | 24 | 32126.3 | 95.8 |
| | | 25 | 32126.9 | 95.8 |
| | | 26 | 32127.3 | 95.8 |
| | | 27 | 32127.6 | 95.8 |
| | | 28 | 32127.8 | 95.8 |
| | | 29 | 32127.9 | 95.8 |
| | | 30 | 32128.1 | 95.8 |
| | | 31 | 32128.1 | 95.8 |
| | | 32 | 32128.2 | 95.8 |
| | | 33 | 32128.2 | 95.8 |
| | | 34 | 32128.2 | 95.8 |
| | | 35 | 32128.3 | 95.8 |
| | | 36 | 32128.3 | 95.8 |
| | | 37 | 32128.3 | 95.8 |
| | | 38 | 32128.3 | 95.8 |
| | | 39 | 32128.3 | 95.8 |
| | | 40 | 32128.3 | 95.8 |
| | | 41 | 32128.3 | 95.8 |
| | | 42 | 32128.3 | 95.8 |
| | | 43 | 32128.3 | 95.8 |
| | | 44 | 32128.3 | 95.8 |
| | | 45 | 32128.3 | 95.8 |
| | | 46 | 32128.3 | 95.8 |
| | | 47 | 32128.3 | 95.8 |
| | | 48 | 32128.3 | 95.8 |
| | | 49 | 32128.3 | 95.8 |
| | | 50 | 32128.3 | 95.8 |
| | | 51 | 32128.3 | 95.8 |
| | | 52 | 32128.3 | 95.8 |
| | | 53 | 32128.3 | 95.8 |
| | | 54 | 32128.3 | 95.8 |
| | | 55 | 32128.3 | 95.8 |
| | | 56 | 32128.3 | 95.8 |
| | | 57 | 32128.3 | 95.8 |
| | | 58 | 32128.3 | 95.8 |
| | | 59 | 32128.3 | 95.8 |
| | | 60 | 32128.3 | 95.8 |
| | | 61 | 32128.3 | 95.8 |
| | | 62 | 32128.3 | 95.8 |
| | | 63 | 32128.3 | 95.8 |

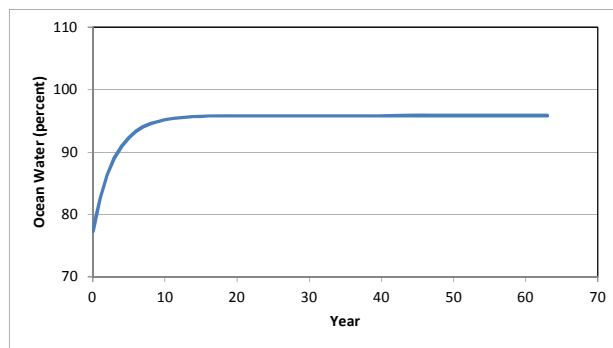
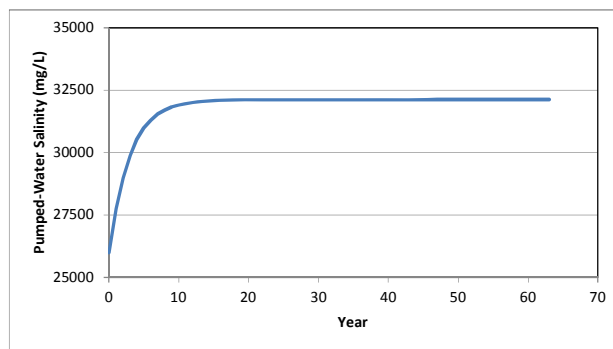


Table D-2. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0007.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 995 acres | | | |
| B | 164 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 29404.8 | 87.6 |
| V | 24,477.0 acre-ft | 2 | 31079.8 | 92.7 |
| QS | 16,948 acre-ft/yr | 3 | 31903.9 | 95.2 |
| QR | 415 acre-ft/yr | 4 | 32309.3 | 96.4 |
| QP | 17,363 acre-ft/yr | 5 | 32508.7 | 97.0 |
| CS | 33,500 mg/L | 6 | 32606.8 | 97.3 |
| CR | 100 mg/L | 7 | 32655.1 | 97.4 |
| CO | 26,000 mg/L | 8 | 32678.9 | 97.5 |
| | | 9 | 32690.5 | 97.5 |
| | | 10 | 32696.3 | 97.6 |
| a | 0.71 | 11 | 32699.1 | 97.6 |
| b | 23,197 | 12 | 32700.5 | 97.6 |
| | | 13 | 32701.2 | 97.6 |
| | | 14 | 32701.5 | 97.6 |
| | | 15 | 32701.7 | 97.6 |
| | | 16 | 32701.8 | 97.6 |
| | | 17 | 32701.8 | 97.6 |
| | | 18 | 32701.8 | 97.6 |
| | | 19 | 32701.8 | 97.6 |
| | | 20 | 32701.9 | 97.6 |
| | | 21 | 32701.9 | 97.6 |
| | | 22 | 32701.9 | 97.6 |
| | | 23 | 32701.9 | 97.6 |
| | | 24 | 32701.9 | 97.6 |
| | | 25 | 32701.9 | 97.6 |
| | | 26 | 32701.9 | 97.6 |
| | | 27 | 32701.9 | 97.6 |
| | | 28 | 32701.9 | 97.6 |
| | | 29 | 32701.9 | 97.6 |
| | | 30 | 32701.9 | 97.6 |
| | | 31 | 32701.9 | 97.6 |
| | | 32 | 32701.9 | 97.6 |
| | | 33 | 32701.9 | 97.6 |
| | | 34 | 32701.9 | 97.6 |
| | | 35 | 32701.9 | 97.6 |
| | | 36 | 32701.9 | 97.6 |
| | | 37 | 32701.9 | 97.6 |
| | | 38 | 32701.9 | 97.6 |
| | | 39 | 32701.9 | 97.6 |
| | | 40 | 32701.9 | 97.6 |
| | | 41 | 32701.9 | 97.6 |
| | | 42 | 32701.9 | 97.6 |
| | | 43 | 32701.9 | 97.6 |
| | | 44 | 32701.9 | 97.6 |
| | | 45 | 32701.9 | 97.6 |
| | | 46 | 32701.9 | 97.6 |
| | | 47 | 32701.9 | 97.6 |
| | | 48 | 32701.9 | 97.6 |
| | | 49 | 32701.9 | 97.6 |
| | | 50 | 32701.9 | 97.6 |
| | | 51 | 32701.9 | 97.6 |
| | | 52 | 32701.9 | 97.6 |
| | | 53 | 32701.9 | 97.6 |
| | | 54 | 32701.9 | 97.6 |
| | | 55 | 32701.9 | 97.6 |
| | | 56 | 32701.9 | 97.6 |
| | | 57 | 32701.9 | 97.6 |
| | | 58 | 32701.9 | 97.6 |
| | | 59 | 32701.9 | 97.6 |
| | | 60 | 32701.9 | 97.6 |
| | | 61 | 32701.9 | 97.6 |
| | | 62 | 32701.9 | 97.6 |
| | | 63 | 32701.9 | 97.6 |

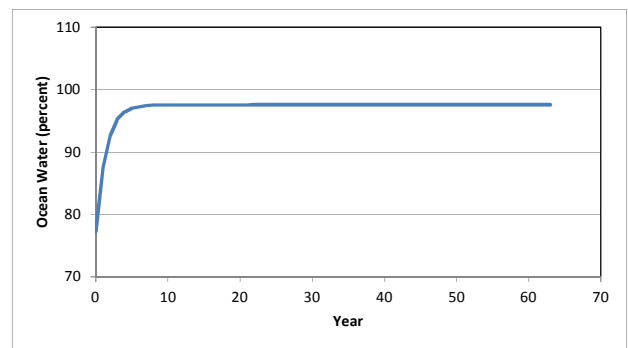
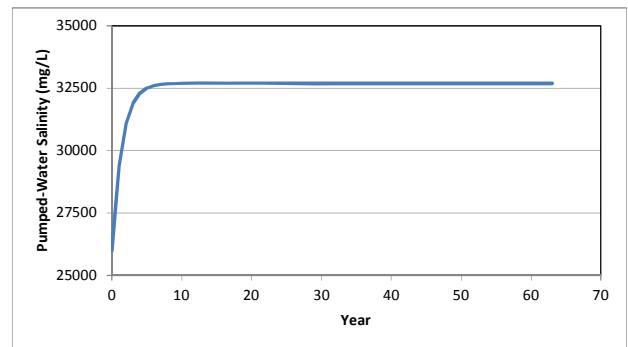


Table D-3. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 31168.6 | 92.9 |
| V | 13,357.8 acre-ft | 2 | 32577.4 | 97.2 |
| QS | 17,158 acre-ft/yr | 3 | 32961.4 | 98.4 |
| QR | 205 acre-ft/yr | 4 | 33066.1 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33094.6 | 98.8 |
| CS | 33,500 mg/L | 6 | 33102.4 | 98.8 |
| CR | 100 mg/L | 7 | 33104.5 | 98.8 |
| CO | 26,000 mg/L | 8 | 33105.1 | 98.8 |
| | | 9 | 33105.3 | 98.8 |
| | | 10 | 33105.3 | 98.8 |
| a | 1.30 | 11 | 33105.3 | 98.8 |
| b | 43,032 | 12 | 33105.3 | 98.8 |
| | | 13 | 33105.3 | 98.8 |
| | | 14 | 33105.3 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
| | | 58 | 33105.3 | 98.8 |
| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

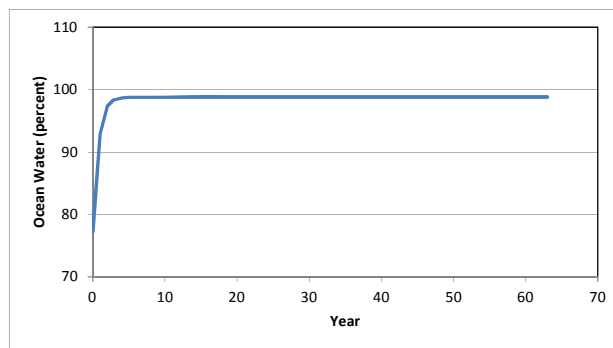
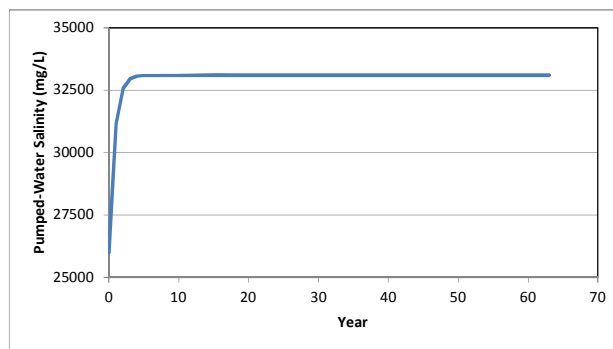


Table D-4. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Test Slant Well Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 25400.0 | 75.5 |
| ϕ | 0.15 | 1 | 31005.1 | 92.4 |
| V | 13,357.8 acre-ft | 2 | 32532.9 | 97.1 |
| QS | 17,158 acre-ft/yr | 3 | 32949.3 | 98.3 |
| QR | 205 acre-ft/yr | 4 | 33062.8 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33093.7 | 98.8 |
| CS | 33,500 mg/L | 6 | 33102.2 | 98.8 |
| CR | 100 mg/L | 7 | 33104.5 | 98.8 |
| CO | 25,400 mg/L | 8 | 33105.1 | 98.8 |
| | | 9 | 33105.3 | 98.8 |
| | | 10 | 33105.3 | 98.8 |
| a | 1.30 | 11 | 33105.3 | 98.8 |
| b | 43,032 | 12 | 33105.3 | 98.8 |
| | | 13 | 33105.3 | 98.8 |
| | | 14 | 33105.3 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
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| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

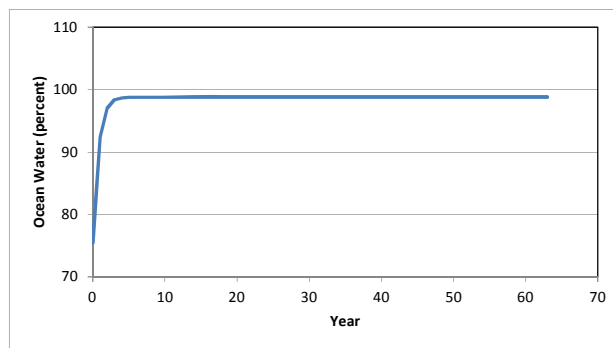
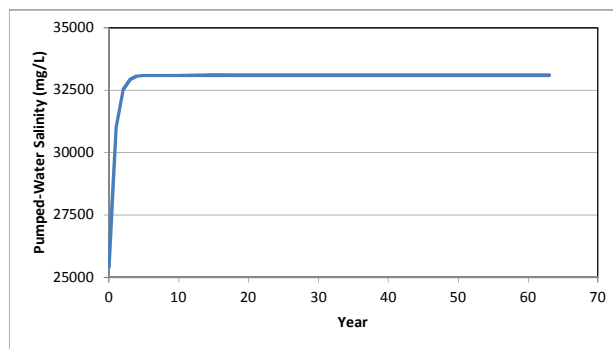


Table D-5. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Minimum Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 24000.0 | 71.2 |
| φ | 0.15 | 1 | 30623.4 | 91.3 |
| V | 13,357.8 acre-ft | 2 | 32428.8 | 96.8 |
| QS | 17,158 acre-ft/yr | 3 | 32920.9 | 98.2 |
| QR | 205 acre-ft/yr | 4 | 33055.1 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33091.6 | 98.8 |
| CS | 33,500 mg/L | 6 | 33101.6 | 98.8 |
| CR | 100 mg/L | 7 | 33104.3 | 98.8 |
| CO | 24,000 mg/L | 8 | 33105.1 | 98.8 |
| | | 9 | 33105.3 | 98.8 |
| | | 10 | 33105.3 | 98.8 |
| a | 1.30 | 11 | 33105.3 | 98.8 |
| b | 43,032 | 12 | 33105.3 | 98.8 |
| | | 13 | 33105.3 | 98.8 |
| | | 14 | 33105.3 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
| | | 58 | 33105.3 | 98.8 |
| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

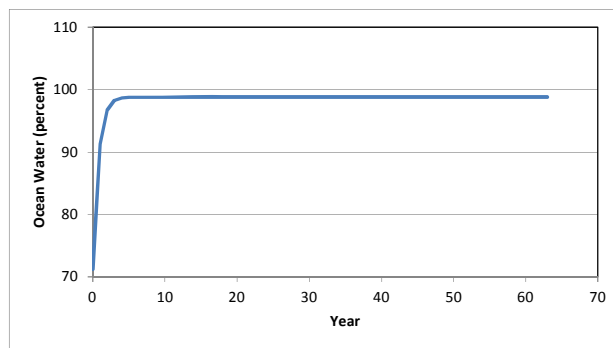
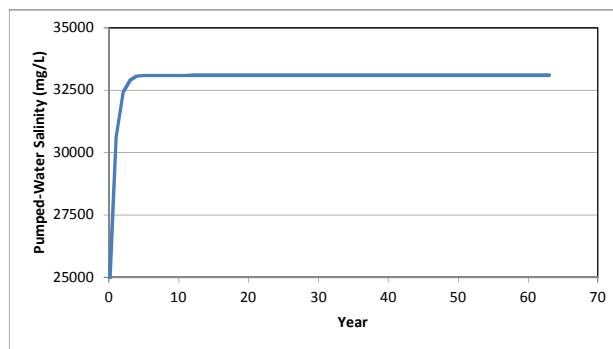


Table D-6. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Maximum Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 28000.0 | 83.3 |
| φ | 0.15 | 1 | 31713.7 | 94.6 |
| V | 13,357.8 acre-ft | 2 | 32726.0 | 97.7 |
| QS | 17,158 acre-ft/yr | 3 | 33001.9 | 98.5 |
| QR | 205 acre-ft/yr | 4 | 33077.2 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33097.7 | 98.8 |
| CS | 33,500 mg/L | 6 | 33103.2 | 98.8 |
| CR | 100 mg/L | 7 | 33104.8 | 98.8 |
| CO | 28,000 mg/L | 8 | 33105.2 | 98.8 |
| | | 9 | 33105.3 | 98.8 |
| | | 10 | 33105.3 | 98.8 |
| a | 1.30 | 11 | 33105.3 | 98.8 |
| b | 43,032 | 12 | 33105.3 | 98.8 |
| | | 13 | 33105.3 | 98.8 |
| | | 14 | 33105.3 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
| | | 58 | 33105.3 | 98.8 |
| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

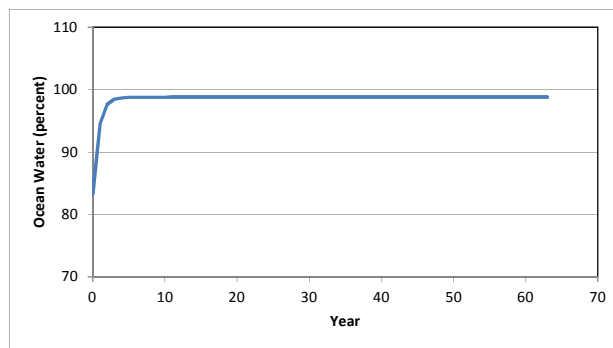
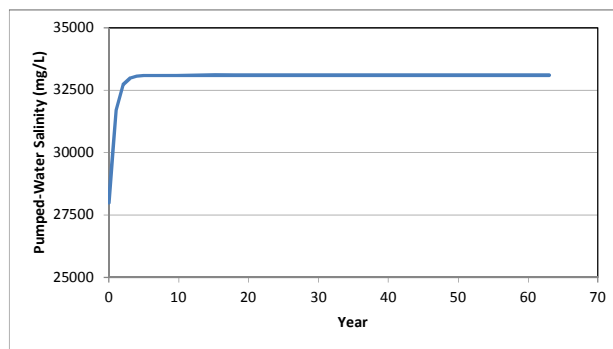


Table D-7. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 and Minimum Porosity.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.05 | 1 | 32961.4 | 98.4 |
| V | 4,452.6 acre-ft | 2 | 33102.4 | 98.8 |
| QS | 17,158 acre-ft/yr | 3 | 33105.3 | 98.8 |
| QR | 205 acre-ft/yr | 4 | 33105.3 | 98.8 |
| QP | 17,363 acre-ft/yr | 5 | 33105.3 | 98.8 |
| CS | 33,500 mg/L | 6 | 33105.3 | 98.8 |
| CR | 100 mg/L | 7 | 33105.3 | 98.8 |
| CO | 26,000 mg/L | 8 | 33105.3 | 98.8 |
| | | 9 | 33105.3 | 98.8 |
| | | 10 | 33105.3 | 98.8 |
| a | 3.90 | 11 | 33105.3 | 98.8 |
| b | 129,095 | 12 | 33105.3 | 98.8 |
| | | 13 | 33105.3 | 98.8 |
| | | 14 | 33105.3 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
| | | 58 | 33105.3 | 98.8 |
| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

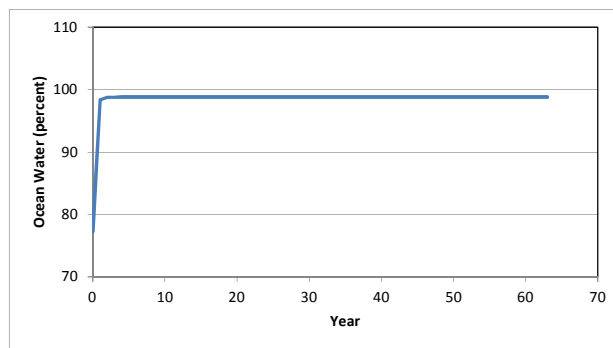
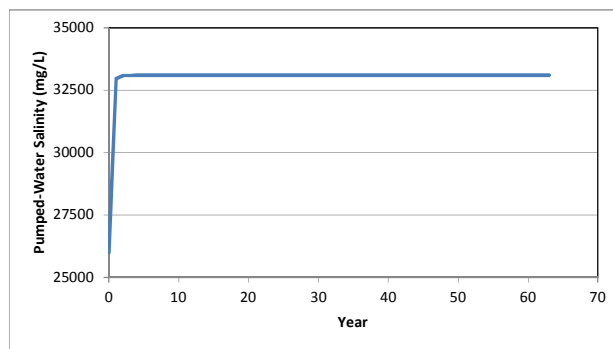


Table D-8. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 and Maximum Porosity.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.25 | 1 | 29847.9 | 88.9 |
| V | 22,263.0 acre-ft | 2 | 31612.0 | 94.3 |
| QS | 17,158 acre-ft/yr | 3 | 32420.7 | 96.7 |
| QR | 205 acre-ft/yr | 4 | 32791.5 | 97.9 |
| QP | 17,363 acre-ft/yr | 5 | 32961.4 | 98.4 |
| CS | 33,500 mg/L | 6 | 33039.4 | 98.6 |
| CR | 100 mg/L | 7 | 33075.1 | 98.7 |
| CO | 26,000 mg/L | 8 | 33091.5 | 98.8 |
| | | 9 | 33099.0 | 98.8 |
| | | 10 | 33102.4 | 98.8 |
| a | 0.78 | 11 | 33104.0 | 98.8 |
| b | 25,819 | 12 | 33104.7 | 98.8 |
| | | 13 | 33105.1 | 98.8 |
| | | 14 | 33105.2 | 98.8 |
| | | 15 | 33105.3 | 98.8 |
| | | 16 | 33105.3 | 98.8 |
| | | 17 | 33105.3 | 98.8 |
| | | 18 | 33105.3 | 98.8 |
| | | 19 | 33105.3 | 98.8 |
| | | 20 | 33105.3 | 98.8 |
| | | 21 | 33105.3 | 98.8 |
| | | 22 | 33105.3 | 98.8 |
| | | 23 | 33105.3 | 98.8 |
| | | 24 | 33105.3 | 98.8 |
| | | 25 | 33105.3 | 98.8 |
| | | 26 | 33105.3 | 98.8 |
| | | 27 | 33105.3 | 98.8 |
| | | 28 | 33105.3 | 98.8 |
| | | 29 | 33105.3 | 98.8 |
| | | 30 | 33105.3 | 98.8 |
| | | 31 | 33105.3 | 98.8 |
| | | 32 | 33105.3 | 98.8 |
| | | 33 | 33105.3 | 98.8 |
| | | 34 | 33105.3 | 98.8 |
| | | 35 | 33105.3 | 98.8 |
| | | 36 | 33105.3 | 98.8 |
| | | 37 | 33105.3 | 98.8 |
| | | 38 | 33105.3 | 98.8 |
| | | 39 | 33105.3 | 98.8 |
| | | 40 | 33105.3 | 98.8 |
| | | 41 | 33105.3 | 98.8 |
| | | 42 | 33105.3 | 98.8 |
| | | 43 | 33105.3 | 98.8 |
| | | 44 | 33105.3 | 98.8 |
| | | 45 | 33105.3 | 98.8 |
| | | 46 | 33105.3 | 98.8 |
| | | 47 | 33105.3 | 98.8 |
| | | 48 | 33105.3 | 98.8 |
| | | 49 | 33105.3 | 98.8 |
| | | 50 | 33105.3 | 98.8 |
| | | 51 | 33105.3 | 98.8 |
| | | 52 | 33105.3 | 98.8 |
| | | 53 | 33105.3 | 98.8 |
| | | 54 | 33105.3 | 98.8 |
| | | 55 | 33105.3 | 98.8 |
| | | 56 | 33105.3 | 98.8 |
| | | 57 | 33105.3 | 98.8 |
| | | 58 | 33105.3 | 98.8 |
| | | 59 | 33105.3 | 98.8 |
| | | 60 | 33105.3 | 98.8 |
| | | 61 | 33105.3 | 98.8 |
| | | 62 | 33105.3 | 98.8 |
| | | 63 | 33105.3 | 98.8 |

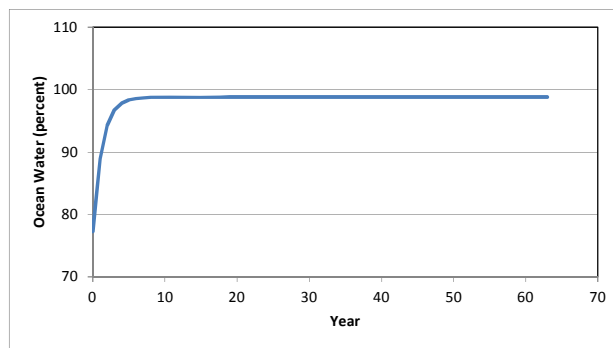
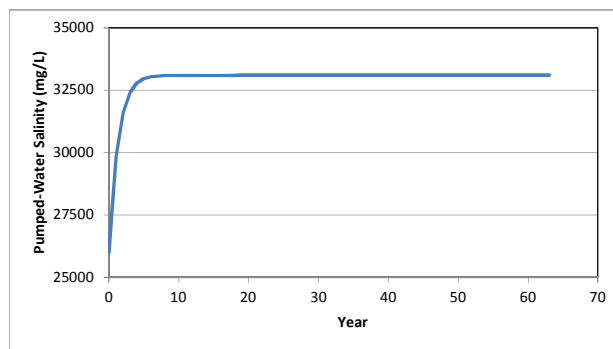


Table D-9. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Minimum Recharge TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 31167.8 | 92.9 |
| V | 13,357.8 acre-ft | 2 | 32576.4 | 97.2 |
| QS | 17,158 acre-ft/yr | 3 | 32960.4 | 98.4 |
| QR | 205 acre-ft/yr | 4 | 33065.1 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33093.6 | 98.8 |
| CS | 33,500 mg/L | 6 | 33101.4 | 98.8 |
| CR | 10 mg/L | 7 | 33103.5 | 98.8 |
| CO | 26,000 mg/L | 8 | 33104.1 | 98.8 |
| | | 9 | 33104.2 | 98.8 |
| | | 10 | 33104.3 | 98.8 |
| a | 1.30 | 11 | 33104.3 | 98.8 |
| b | 43,030 | 12 | 33104.3 | 98.8 |
| | | 13 | 33104.3 | 98.8 |
| | | 14 | 33104.3 | 98.8 |
| | | 15 | 33104.3 | 98.8 |
| | | 16 | 33104.3 | 98.8 |
| | | 17 | 33104.3 | 98.8 |
| | | 18 | 33104.3 | 98.8 |
| | | 19 | 33104.3 | 98.8 |
| | | 20 | 33104.3 | 98.8 |
| | | 21 | 33104.3 | 98.8 |
| | | 22 | 33104.3 | 98.8 |
| | | 23 | 33104.3 | 98.8 |
| | | 24 | 33104.3 | 98.8 |
| | | 25 | 33104.3 | 98.8 |
| | | 26 | 33104.3 | 98.8 |
| | | 27 | 33104.3 | 98.8 |
| | | 28 | 33104.3 | 98.8 |
| | | 29 | 33104.3 | 98.8 |
| | | 30 | 33104.3 | 98.8 |
| | | 31 | 33104.3 | 98.8 |
| | | 32 | 33104.3 | 98.8 |
| | | 33 | 33104.3 | 98.8 |
| | | 34 | 33104.3 | 98.8 |
| | | 35 | 33104.3 | 98.8 |
| | | 36 | 33104.3 | 98.8 |
| | | 37 | 33104.3 | 98.8 |
| | | 38 | 33104.3 | 98.8 |
| | | 39 | 33104.3 | 98.8 |
| | | 40 | 33104.3 | 98.8 |
| | | 41 | 33104.3 | 98.8 |
| | | 42 | 33104.3 | 98.8 |
| | | 43 | 33104.3 | 98.8 |
| | | 44 | 33104.3 | 98.8 |
| | | 45 | 33104.3 | 98.8 |
| | | 46 | 33104.3 | 98.8 |
| | | 47 | 33104.3 | 98.8 |
| | | 48 | 33104.3 | 98.8 |
| | | 49 | 33104.3 | 98.8 |
| | | 50 | 33104.3 | 98.8 |
| | | 51 | 33104.3 | 98.8 |
| | | 52 | 33104.3 | 98.8 |
| | | 53 | 33104.3 | 98.8 |
| | | 54 | 33104.3 | 98.8 |
| | | 55 | 33104.3 | 98.8 |
| | | 56 | 33104.3 | 98.8 |
| | | 57 | 33104.3 | 98.8 |
| | | 58 | 33104.3 | 98.8 |
| | | 59 | 33104.3 | 98.8 |
| | | 60 | 33104.3 | 98.8 |
| | | 61 | 33104.3 | 98.8 |
| | | 62 | 33104.3 | 98.8 |
| | | 63 | 33104.3 | 98.8 |

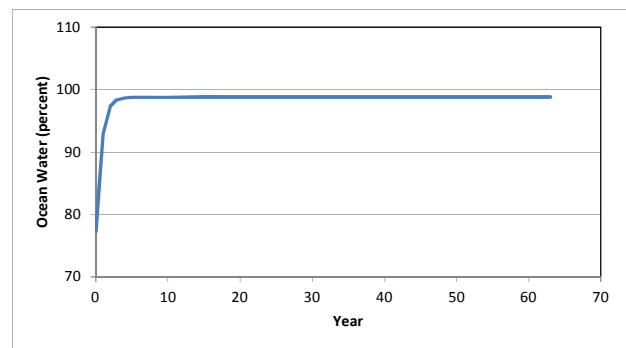
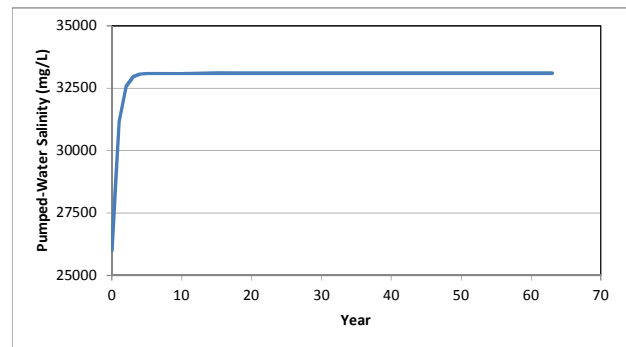


Table D-10. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Maximum Recharge TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 31169.5 | 92.9 |
| V | 13,357.8 acre-ft | 2 | 32578.5 | 97.2 |
| QS | 17,158 acre-ft/yr | 3 | 32962.6 | 98.4 |
| QR | 205 acre-ft/yr | 4 | 33067.3 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 33095.8 | 98.8 |
| CS | 33,500 mg/L | 6 | 33103.6 | 98.8 |
| CR | 200 mg/L | 7 | 33105.7 | 98.8 |
| CO | 26,000 mg/L | 8 | 33106.3 | 98.8 |
| | | 9 | 33106.5 | 98.8 |
| | | 10 | 33106.5 | 98.8 |
| a | 1.30 | 11 | 33106.5 | 98.8 |
| b | 43,033 | 12 | 33106.5 | 98.8 |
| | | 13 | 33106.5 | 98.8 |
| | | 14 | 33106.5 | 98.8 |
| | | 15 | 33106.5 | 98.8 |
| | | 16 | 33106.5 | 98.8 |
| | | 17 | 33106.5 | 98.8 |
| | | 18 | 33106.5 | 98.8 |
| | | 19 | 33106.5 | 98.8 |
| | | 20 | 33106.5 | 98.8 |
| | | 21 | 33106.5 | 98.8 |
| | | 22 | 33106.5 | 98.8 |
| | | 23 | 33106.5 | 98.8 |
| | | 24 | 33106.5 | 98.8 |
| | | 25 | 33106.5 | 98.8 |
| | | 26 | 33106.5 | 98.8 |
| | | 27 | 33106.5 | 98.8 |
| | | 28 | 33106.5 | 98.8 |
| | | 29 | 33106.5 | 98.8 |
| | | 30 | 33106.5 | 98.8 |
| | | 31 | 33106.5 | 98.8 |
| | | 32 | 33106.5 | 98.8 |
| | | 33 | 33106.5 | 98.8 |
| | | 34 | 33106.5 | 98.8 |
| | | 35 | 33106.5 | 98.8 |
| | | 36 | 33106.5 | 98.8 |
| | | 37 | 33106.5 | 98.8 |
| | | 38 | 33106.5 | 98.8 |
| | | 39 | 33106.5 | 98.8 |
| | | 40 | 33106.5 | 98.8 |
| | | 41 | 33106.5 | 98.8 |
| | | 42 | 33106.5 | 98.8 |
| | | 43 | 33106.5 | 98.8 |
| | | 44 | 33106.5 | 98.8 |
| | | 45 | 33106.5 | 98.8 |
| | | 46 | 33106.5 | 98.8 |
| | | 47 | 33106.5 | 98.8 |
| | | 48 | 33106.5 | 98.8 |
| | | 49 | 33106.5 | 98.8 |
| | | 50 | 33106.5 | 98.8 |
| | | 51 | 33106.5 | 98.8 |
| | | 52 | 33106.5 | 98.8 |
| | | 53 | 33106.5 | 98.8 |
| | | 54 | 33106.5 | 98.8 |
| | | 55 | 33106.5 | 98.8 |
| | | 56 | 33106.5 | 98.8 |
| | | 57 | 33106.5 | 98.8 |
| | | 58 | 33106.5 | 98.8 |
| | | 59 | 33106.5 | 98.8 |
| | | 60 | 33106.5 | 98.8 |
| | | 61 | 33106.5 | 98.8 |
| | | 62 | 33106.5 | 98.8 |
| | | 63 | 33106.5 | 98.8 |

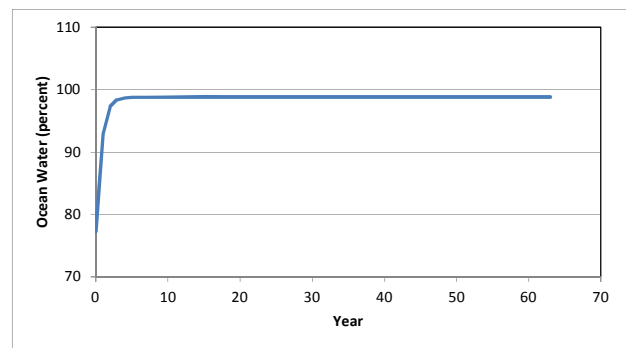
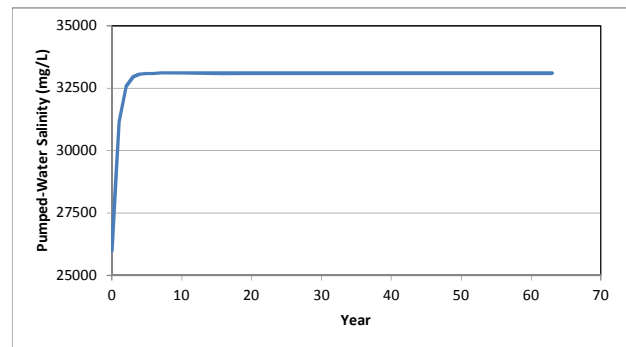


Table D-11. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 and Minimum Groundwater Recharge.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 31369.6 | 93.5 |
| V | 13,357.8 acre-ft | 2 | 32833.3 | 98.0 |
| QS | 17,302 acre-ft/yr | 3 | 33232.2 | 99.2 |
| QR | 62 acre-ft/yr | 4 | 33340.9 | 99.5 |
| QP | 17,363 acre-ft/yr | 5 | 33370.6 | 99.6 |
| CS | 33,500 mg/L | 6 | 33378.7 | 99.6 |
| CR | 100 mg/L | 7 | 33380.9 | 99.6 |
| CO | 26,000 mg/L | 8 | 33381.5 | 99.6 |
| | | 9 | 33381.6 | 99.6 |
| | | 10 | 33381.7 | 99.6 |
| a | 1.30 | 11 | 33381.7 | 99.6 |
| b | 43,391 | 12 | 33381.7 | 99.6 |
| | | 13 | 33381.7 | 99.6 |
| | | 14 | 33381.7 | 99.6 |
| | | 15 | 33381.7 | 99.6 |
| | | 16 | 33381.7 | 99.6 |
| | | 17 | 33381.7 | 99.6 |
| | | 18 | 33381.7 | 99.6 |
| | | 19 | 33381.7 | 99.6 |
| | | 20 | 33381.7 | 99.6 |
| | | 21 | 33381.7 | 99.6 |
| | | 22 | 33381.7 | 99.6 |
| | | 23 | 33381.7 | 99.6 |
| | | 24 | 33381.7 | 99.6 |
| | | 25 | 33381.7 | 99.6 |
| | | 26 | 33381.7 | 99.6 |
| | | 27 | 33381.7 | 99.6 |
| | | 28 | 33381.7 | 99.6 |
| | | 29 | 33381.7 | 99.6 |
| | | 30 | 33381.7 | 99.6 |
| | | 31 | 33381.7 | 99.6 |
| | | 32 | 33381.7 | 99.6 |
| | | 33 | 33381.7 | 99.6 |
| | | 34 | 33381.7 | 99.6 |
| | | 35 | 33381.7 | 99.6 |
| | | 36 | 33381.7 | 99.6 |
| | | 37 | 33381.7 | 99.6 |
| | | 38 | 33381.7 | 99.6 |
| | | 39 | 33381.7 | 99.6 |
| | | 40 | 33381.7 | 99.6 |
| | | 41 | 33381.7 | 99.6 |
| | | 42 | 33381.7 | 99.6 |
| | | 43 | 33381.7 | 99.6 |
| | | 44 | 33381.7 | 99.6 |
| | | 45 | 33381.7 | 99.6 |
| | | 46 | 33381.7 | 99.6 |
| | | 47 | 33381.7 | 99.6 |
| | | 48 | 33381.7 | 99.6 |
| | | 49 | 33381.7 | 99.6 |
| | | 50 | 33381.7 | 99.6 |
| | | 51 | 33381.7 | 99.6 |
| | | 52 | 33381.7 | 99.6 |
| | | 53 | 33381.7 | 99.6 |
| | | 54 | 33381.7 | 99.6 |
| | | 55 | 33381.7 | 99.6 |
| | | 56 | 33381.7 | 99.6 |
| | | 57 | 33381.7 | 99.6 |
| | | 58 | 33381.7 | 99.6 |
| | | 59 | 33381.7 | 99.6 |
| | | 60 | 33381.7 | 99.6 |
| | | 61 | 33381.7 | 99.6 |
| | | 62 | 33381.7 | 99.6 |
| | | 63 | 33381.7 | 99.6 |

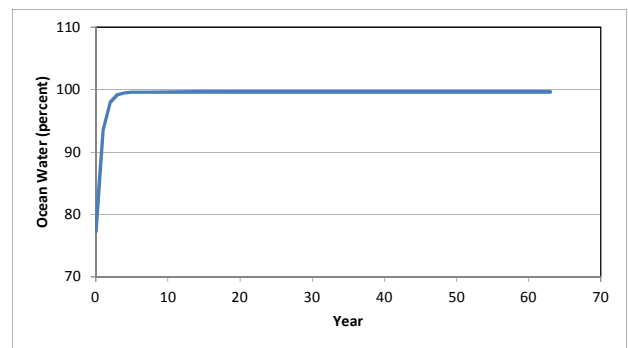
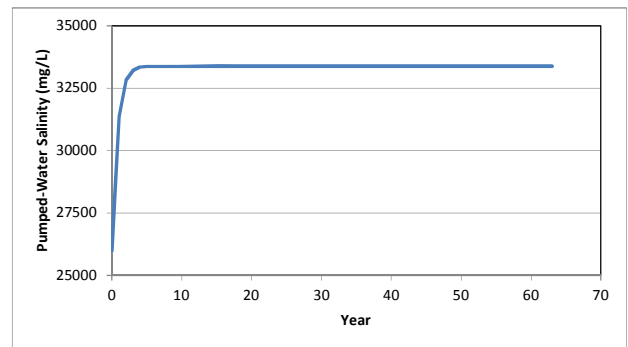


Table D-12. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 and Maximum Groundwater Recharge.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 31030.9 | 92.5 |
| V | 13,357.8 acre-ft | 2 | 32402.2 | 96.7 |
| QS | 17,059 acre-ft/yr | 3 | 32776.0 | 97.8 |
| QR | 304 acre-ft/yr | 4 | 32877.9 | 98.1 |
| QP | 17,363 acre-ft/yr | 5 | 32905.6 | 98.2 |
| CS | 33,500 mg/L | 6 | 32913.2 | 98.2 |
| CR | 100 mg/L | 7 | 32915.3 | 98.2 |
| CO | 26,000 mg/L | 8 | 32915.8 | 98.2 |
| | | 9 | 32916.0 | 98.2 |
| | | 10 | 32916.0 | 98.2 |
| a | 1.30 | 11 | 32916.1 | 98.2 |
| b | 42,786 | 12 | 32916.1 | 98.2 |
| | | 13 | 32916.1 | 98.2 |
| | | 14 | 32916.1 | 98.2 |
| | | 15 | 32916.1 | 98.2 |
| | | 16 | 32916.1 | 98.2 |
| | | 17 | 32916.1 | 98.2 |
| | | 18 | 32916.1 | 98.2 |
| | | 19 | 32916.1 | 98.2 |
| | | 20 | 32916.1 | 98.2 |
| | | 21 | 32916.1 | 98.2 |
| | | 22 | 32916.1 | 98.2 |
| | | 23 | 32916.1 | 98.2 |
| | | 24 | 32916.1 | 98.2 |
| | | 25 | 32916.1 | 98.2 |
| | | 26 | 32916.1 | 98.2 |
| | | 27 | 32916.1 | 98.2 |
| | | 28 | 32916.1 | 98.2 |
| | | 29 | 32916.1 | 98.2 |
| | | 30 | 32916.1 | 98.2 |
| | | 31 | 32916.1 | 98.2 |
| | | 32 | 32916.1 | 98.2 |
| | | 33 | 32916.1 | 98.2 |
| | | 34 | 32916.1 | 98.2 |
| | | 35 | 32916.1 | 98.2 |
| | | 36 | 32916.1 | 98.2 |
| | | 37 | 32916.1 | 98.2 |
| | | 38 | 32916.1 | 98.2 |
| | | 39 | 32916.1 | 98.2 |
| | | 40 | 32916.1 | 98.2 |
| | | 41 | 32916.1 | 98.2 |
| | | 42 | 32916.1 | 98.2 |
| | | 43 | 32916.1 | 98.2 |
| | | 44 | 32916.1 | 98.2 |
| | | 45 | 32916.1 | 98.2 |
| | | 46 | 32916.1 | 98.2 |
| | | 47 | 32916.1 | 98.2 |
| | | 48 | 32916.1 | 98.2 |
| | | 49 | 32916.1 | 98.2 |
| | | 50 | 32916.1 | 98.2 |
| | | 51 | 32916.1 | 98.2 |
| | | 52 | 32916.1 | 98.2 |
| | | 53 | 32916.1 | 98.2 |
| | | 54 | 32916.1 | 98.2 |
| | | 55 | 32916.1 | 98.2 |
| | | 56 | 32916.1 | 98.2 |
| | | 57 | 32916.1 | 98.2 |
| | | 58 | 32916.1 | 98.2 |
| | | 59 | 32916.1 | 98.2 |
| | | 60 | 32916.1 | 98.2 |
| | | 61 | 32916.1 | 98.2 |
| | | 62 | 32916.1 | 98.2 |
| | | 63 | 32916.1 | 98.2 |

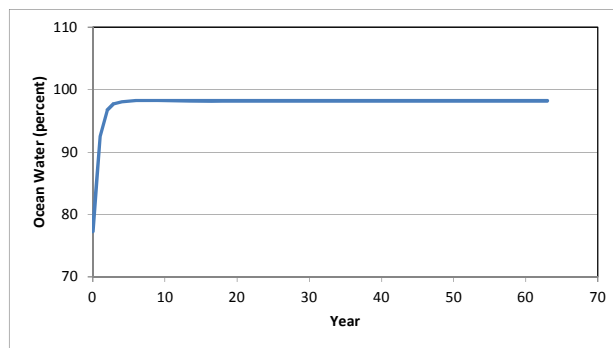
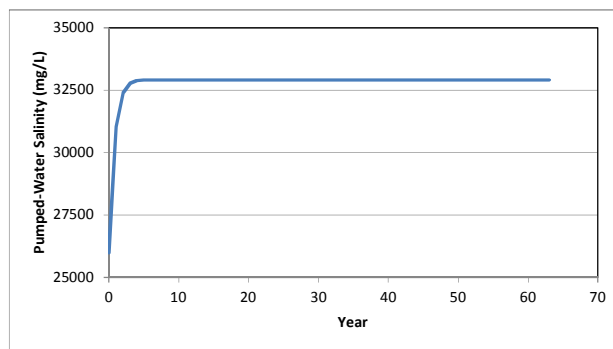


Table D-13. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Minimum Seawater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 78.5 |
| ϕ | 0.15 | 1 | 30809.2 | 93.3 |
| V | 13,357.8 acre-ft | 2 | 32120.0 | 97.3 |
| QS | 17,158 acre-ft/yr | 3 | 32477.4 | 98.4 |
| QR | 205 acre-ft/yr | 4 | 32574.8 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 32601.3 | 98.8 |
| CS | 33,000 mg/L | 6 | 32608.5 | 98.8 |
| CR | 100 mg/L | 7 | 32610.5 | 98.8 |
| CO | 26,000 mg/L | 8 | 32611.0 | 98.8 |
| | | 9 | 32611.2 | 98.8 |
| | | 10 | 32611.2 | 98.8 |
| a | 1.30 | 11 | 32611.2 | 98.8 |
| b | 42,389 | 12 | 32611.2 | 98.8 |
| | | 13 | 32611.2 | 98.8 |
| | | 14 | 32611.2 | 98.8 |
| | | 15 | 32611.2 | 98.8 |
| | | 16 | 32611.2 | 98.8 |
| | | 17 | 32611.2 | 98.8 |
| | | 18 | 32611.2 | 98.8 |
| | | 19 | 32611.2 | 98.8 |
| | | 20 | 32611.2 | 98.8 |
| | | 21 | 32611.2 | 98.8 |
| | | 22 | 32611.2 | 98.8 |
| | | 23 | 32611.2 | 98.8 |
| | | 24 | 32611.2 | 98.8 |
| | | 25 | 32611.2 | 98.8 |
| | | 26 | 32611.2 | 98.8 |
| | | 27 | 32611.2 | 98.8 |
| | | 28 | 32611.2 | 98.8 |
| | | 29 | 32611.2 | 98.8 |
| | | 30 | 32611.2 | 98.8 |
| | | 31 | 32611.2 | 98.8 |
| | | 32 | 32611.2 | 98.8 |
| | | 33 | 32611.2 | 98.8 |
| | | 34 | 32611.2 | 98.8 |
| | | 35 | 32611.2 | 98.8 |
| | | 36 | 32611.2 | 98.8 |
| | | 37 | 32611.2 | 98.8 |
| | | 38 | 32611.2 | 98.8 |
| | | 39 | 32611.2 | 98.8 |
| | | 40 | 32611.2 | 98.8 |
| | | 41 | 32611.2 | 98.8 |
| | | 42 | 32611.2 | 98.8 |
| | | 43 | 32611.2 | 98.8 |
| | | 44 | 32611.2 | 98.8 |
| | | 45 | 32611.2 | 98.8 |
| | | 46 | 32611.2 | 98.8 |
| | | 47 | 32611.2 | 98.8 |
| | | 48 | 32611.2 | 98.8 |
| | | 49 | 32611.2 | 98.8 |
| | | 50 | 32611.2 | 98.8 |
| | | 51 | 32611.2 | 98.8 |
| | | 52 | 32611.2 | 98.8 |
| | | 53 | 32611.2 | 98.8 |
| | | 54 | 32611.2 | 98.8 |
| | | 55 | 32611.2 | 98.8 |
| | | 56 | 32611.2 | 98.8 |
| | | 57 | 32611.2 | 98.8 |
| | | 58 | 32611.2 | 98.8 |
| | | 59 | 32611.2 | 98.8 |
| | | 60 | 32611.2 | 98.8 |
| | | 61 | 32611.2 | 98.8 |
| | | 62 | 32611.2 | 98.8 |
| | | 63 | 32611.2 | 98.8 |

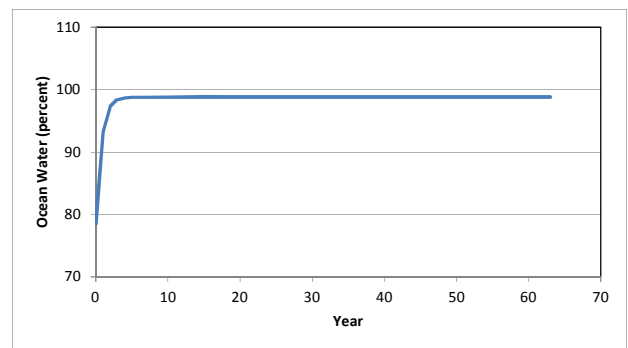
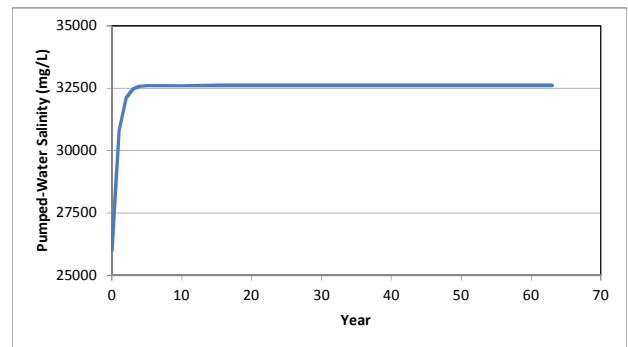


Table D-14. OWP Analysis for 15.5 MGD with Hydraulic Gradient of 0.0011 with Maximum Seawater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 492 acres | | | |
| B | 181 ft | 0 | 26000.0 | 73.9 |
| φ | 0.15 | 1 | 32246.8 | 92.0 |
| V | 13,357.8 acre-ft | 2 | 33949.6 | 97.0 |
| QS | 17,158 acre-ft/yr | 3 | 34413.7 | 98.3 |
| QR | 205 acre-ft/yr | 4 | 34540.2 | 98.7 |
| QP | 17,363 acre-ft/yr | 5 | 34574.7 | 98.8 |
| CS | 35,000 mg/L | 6 | 34584.1 | 98.8 |
| CR | 100 mg/L | 7 | 34586.7 | 98.8 |
| CO | 26,000 mg/L | 8 | 34587.4 | 98.8 |
| | | 9 | 34587.5 | 98.8 |
| | | 10 | 34587.6 | 98.8 |
| a | 1.30 | 11 | 34587.6 | 98.8 |
| b | 44,958 | 12 | 34587.6 | 98.8 |
| | | 13 | 34587.6 | 98.8 |
| | | 14 | 34587.6 | 98.8 |
| | | 15 | 34587.6 | 98.8 |
| | | 16 | 34587.6 | 98.8 |
| | | 17 | 34587.6 | 98.8 |
| | | 18 | 34587.6 | 98.8 |
| | | 19 | 34587.6 | 98.8 |
| | | 20 | 34587.6 | 98.8 |
| | | 21 | 34587.6 | 98.8 |
| | | 22 | 34587.6 | 98.8 |
| | | 23 | 34587.6 | 98.8 |
| | | 24 | 34587.6 | 98.8 |
| | | 25 | 34587.6 | 98.8 |
| | | 26 | 34587.6 | 98.8 |
| | | 27 | 34587.6 | 98.8 |
| | | 28 | 34587.6 | 98.8 |
| | | 29 | 34587.6 | 98.8 |
| | | 30 | 34587.6 | 98.8 |
| | | 31 | 34587.6 | 98.8 |
| | | 32 | 34587.6 | 98.8 |
| | | 33 | 34587.6 | 98.8 |
| | | 34 | 34587.6 | 98.8 |
| | | 35 | 34587.6 | 98.8 |
| | | 36 | 34587.6 | 98.8 |
| | | 37 | 34587.6 | 98.8 |
| | | 38 | 34587.6 | 98.8 |
| | | 39 | 34587.6 | 98.8 |
| | | 40 | 34587.6 | 98.8 |
| | | 41 | 34587.6 | 98.8 |
| | | 42 | 34587.6 | 98.8 |
| | | 43 | 34587.6 | 98.8 |
| | | 44 | 34587.6 | 98.8 |
| | | 45 | 34587.6 | 98.8 |
| | | 46 | 34587.6 | 98.8 |
| | | 47 | 34587.6 | 98.8 |
| | | 48 | 34587.6 | 98.8 |
| | | 49 | 34587.6 | 98.8 |
| | | 50 | 34587.6 | 98.8 |
| | | 51 | 34587.6 | 98.8 |
| | | 52 | 34587.6 | 98.8 |
| | | 53 | 34587.6 | 98.8 |
| | | 54 | 34587.6 | 98.8 |
| | | 55 | 34587.6 | 98.8 |
| | | 56 | 34587.6 | 98.8 |
| | | 57 | 34587.6 | 98.8 |
| | | 58 | 34587.6 | 98.8 |
| | | 59 | 34587.6 | 98.8 |
| | | 60 | 34587.6 | 98.8 |
| | | 61 | 34587.6 | 98.8 |
| | | 62 | 34587.6 | 98.8 |
| | | 63 | 34587.6 | 98.8 |

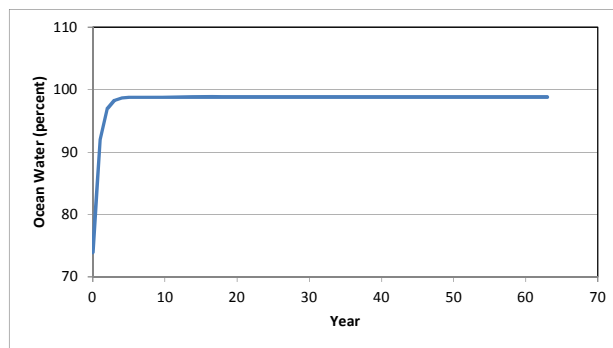
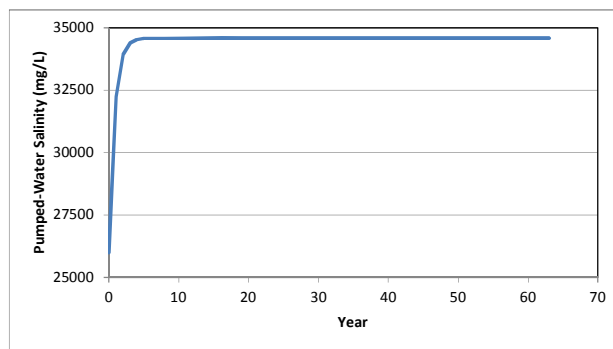


Table D-15. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0004.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 2,370 acres | | | |
| B | 240 ft | 0 | 26000.0 | 77.3 |
| φ | 0.15 | 1 | 27702.9 | 82.4 |
| V | 85,320.0 acre-ft | 2 | 28943.9 | 86.2 |
| QS | 26,012 acre-ft/yr | 3 | 29848.2 | 88.9 |
| QR | 988 acre-ft/yr | 4 | 30507.2 | 90.9 |
| QP | 27,000 acre-ft/yr | 5 | 30987.4 | 92.4 |
| CS | 33,500 mg/L | 6 | 31337.4 | 93.4 |
| CR | 100 mg/L | 7 | 31592.4 | 94.2 |
| CO | 26,000 mg/L | 8 | 31778.2 | 94.8 |
| | | 9 | 31913.6 | 95.2 |
| | | 10 | 32012.3 | 95.5 |
| a | 0.32 | 11 | 32084.3 | 95.7 |
| b | 10,214 | 12 | 32136.7 | 95.9 |
| | | 13 | 32174.9 | 96.0 |
| | | 14 | 32202.7 | 96.1 |
| | | 15 | 32223.0 | 96.1 |
| | | 16 | 32237.7 | 96.2 |
| | | 17 | 32248.5 | 96.2 |
| | | 18 | 32256.4 | 96.2 |
| | | 19 | 32262.1 | 96.2 |
| | | 20 | 32266.3 | 96.3 |
| | | 21 | 32269.3 | 96.3 |
| | | 22 | 32271.5 | 96.3 |
| | | 23 | 32273.1 | 96.3 |
| | | 24 | 32274.3 | 96.3 |
| | | 25 | 32275.1 | 96.3 |
| | | 26 | 32275.8 | 96.3 |
| | | 27 | 32276.2 | 96.3 |
| | | 28 | 32276.6 | 96.3 |
| | | 29 | 32276.8 | 96.3 |
| | | 30 | 32277.0 | 96.3 |
| | | 31 | 32277.1 | 96.3 |
| | | 32 | 32277.2 | 96.3 |
| | | 33 | 32277.3 | 96.3 |
| | | 34 | 32277.3 | 96.3 |
| | | 35 | 32277.4 | 96.3 |
| | | 36 | 32277.4 | 96.3 |
| | | 37 | 32277.4 | 96.3 |
| | | 38 | 32277.4 | 96.3 |
| | | 39 | 32277.4 | 96.3 |
| | | 40 | 32277.4 | 96.3 |
| | | 41 | 32277.4 | 96.3 |
| | | 42 | 32277.4 | 96.3 |
| | | 43 | 32277.4 | 96.3 |
| | | 44 | 32277.4 | 96.3 |
| | | 45 | 32277.4 | 96.3 |
| | | 46 | 32277.4 | 96.3 |
| | | 47 | 32277.4 | 96.3 |
| | | 48 | 32277.4 | 96.3 |
| | | 49 | 32277.4 | 96.3 |
| | | 50 | 32277.4 | 96.3 |
| | | 51 | 32277.4 | 96.3 |
| | | 52 | 32277.4 | 96.3 |
| | | 53 | 32277.4 | 96.3 |
| | | 54 | 32277.4 | 96.3 |
| | | 55 | 32277.4 | 96.3 |
| | | 56 | 32277.4 | 96.3 |
| | | 57 | 32277.4 | 96.3 |
| | | 58 | 32277.4 | 96.3 |
| | | 59 | 32277.4 | 96.3 |
| | | 60 | 32277.4 | 96.3 |
| | | 61 | 32277.4 | 96.3 |
| | | 62 | 32277.4 | 96.3 |
| | | 63 | 32277.4 | 96.3 |

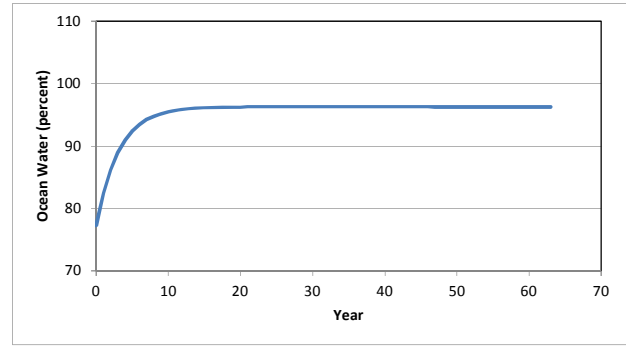
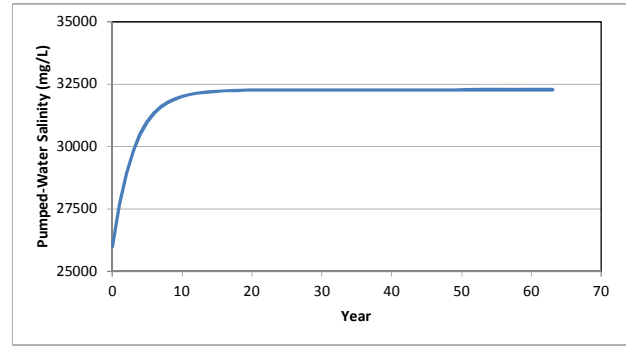


Table D-16. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0007.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,467 acres | | | |
| B | 188 ft | 0 | 26000.0 | 77.3 |
| φ | 0.15 | 1 | 29232.3 | 87.1 |
| V | 41,369.4 acre-ft | 2 | 30915.2 | 92.2 |
| QS | 26,388 acre-ft/yr | 3 | 31791.5 | 94.8 |
| QR | 612 acre-ft/yr | 4 | 32247.7 | 96.2 |
| QP | 27,000 acre-ft/yr | 5 | 32485.2 | 96.9 |
| CS | 33,500 mg/L | 6 | 32608.9 | 97.3 |
| CR | 100 mg/L | 7 | 32673.3 | 97.5 |
| CO | 26,000 mg/L | 8 | 32706.8 | 97.6 |
| | | 9 | 32724.3 | 97.6 |
| | | 10 | 32733.4 | 97.7 |
| a | 0.65 | 11 | 32738.1 | 97.7 |
| b | 21,370 | 12 | 32740.6 | 97.7 |
| | | 13 | 32741.9 | 97.7 |
| | | 14 | 32742.5 | 97.7 |
| | | 15 | 32742.9 | 97.7 |
| | | 16 | 32743.1 | 97.7 |
| | | 17 | 32743.2 | 97.7 |
| | | 18 | 32743.2 | 97.7 |
| | | 19 | 32743.2 | 97.7 |
| | | 20 | 32743.2 | 97.7 |
| | | 21 | 32743.2 | 97.7 |
| | | 22 | 32743.3 | 97.7 |
| | | 23 | 32743.3 | 97.7 |
| | | 24 | 32743.3 | 97.7 |
| | | 25 | 32743.3 | 97.7 |
| | | 26 | 32743.3 | 97.7 |
| | | 27 | 32743.3 | 97.7 |
| | | 28 | 32743.3 | 97.7 |
| | | 29 | 32743.3 | 97.7 |
| | | 30 | 32743.3 | 97.7 |
| | | 31 | 32743.3 | 97.7 |
| | | 32 | 32743.3 | 97.7 |
| | | 33 | 32743.3 | 97.7 |
| | | 34 | 32743.3 | 97.7 |
| | | 35 | 32743.3 | 97.7 |
| | | 36 | 32743.3 | 97.7 |
| | | 37 | 32743.3 | 97.7 |
| | | 38 | 32743.3 | 97.7 |
| | | 39 | 32743.3 | 97.7 |
| | | 40 | 32743.3 | 97.7 |
| | | 41 | 32743.3 | 97.7 |
| | | 42 | 32743.3 | 97.7 |
| | | 43 | 32743.3 | 97.7 |
| | | 44 | 32743.3 | 97.7 |
| | | 45 | 32743.3 | 97.7 |
| | | 46 | 32743.3 | 97.7 |
| | | 47 | 32743.3 | 97.7 |
| | | 48 | 32743.3 | 97.7 |
| | | 49 | 32743.3 | 97.7 |
| | | 50 | 32743.3 | 97.7 |
| | | 51 | 32743.3 | 97.7 |
| | | 52 | 32743.3 | 97.7 |
| | | 53 | 32743.3 | 97.7 |
| | | 54 | 32743.3 | 97.7 |
| | | 55 | 32743.3 | 97.7 |
| | | 56 | 32743.3 | 97.7 |
| | | 57 | 32743.3 | 97.7 |
| | | 58 | 32743.3 | 97.7 |
| | | 59 | 32743.3 | 97.7 |
| | | 60 | 32743.3 | 97.7 |
| | | 61 | 32743.3 | 97.7 |
| | | 62 | 32743.3 | 97.7 |
| | | 63 | 32743.3 | 97.7 |

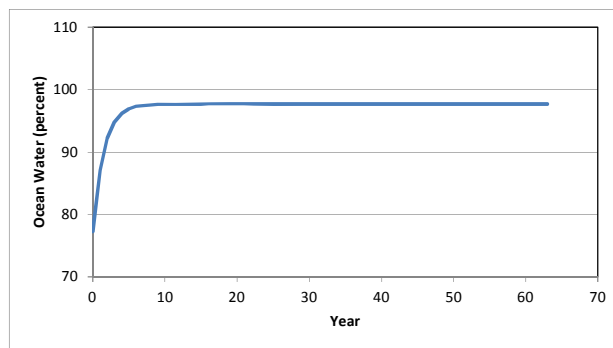
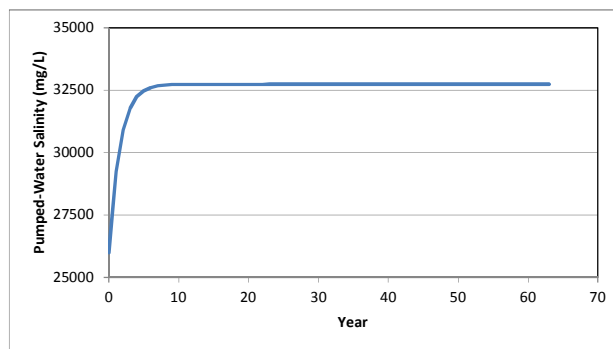


Table D-17. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| φ | 0.15 | 1 | 30284.6 | 90.3 |
| V | 27,656.4 acre-ft | 2 | 31898.7 | 95.1 |
| QS | 26,494 acre-ft/yr | 3 | 32506.8 | 97.0 |
| QR | 506 acre-ft/yr | 4 | 32735.8 | 97.7 |
| QP | 27,000 acre-ft/yr | 5 | 32822.1 | 97.9 |
| CS | 33,500 mg/L | 6 | 32854.6 | 98.0 |
| CR | 100 mg/L | 7 | 32866.9 | 98.1 |
| CO | 26,000 mg/L | 8 | 32871.5 | 98.1 |
| | | 9 | 32873.2 | 98.1 |
| | | 10 | 32873.9 | 98.1 |
| a | 0.98 | 11 | 32874.1 | 98.1 |
| b | 32,094 | 12 | 32874.2 | 98.1 |
| | | 13 | 32874.3 | 98.1 |
| | | 14 | 32874.3 | 98.1 |
| | | 15 | 32874.3 | 98.1 |
| | | 16 | 32874.3 | 98.1 |
| | | 17 | 32874.3 | 98.1 |
| | | 18 | 32874.3 | 98.1 |
| | | 19 | 32874.3 | 98.1 |
| | | 20 | 32874.3 | 98.1 |
| | | 21 | 32874.3 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

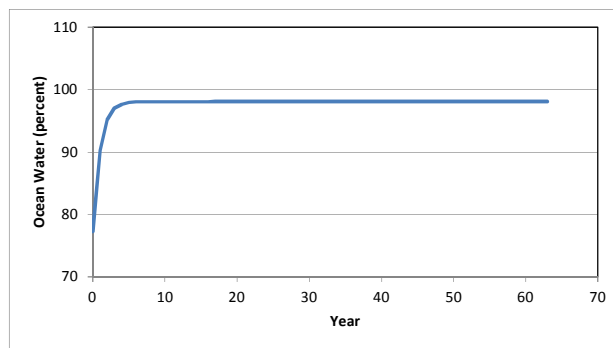
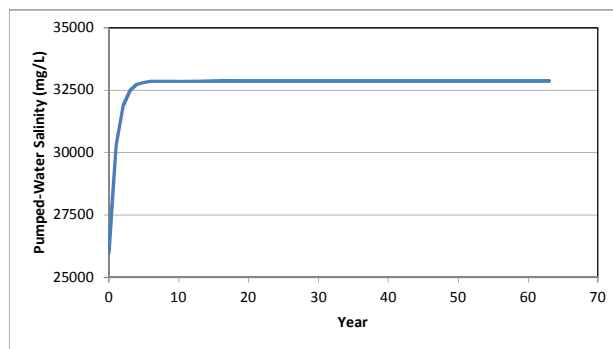


Table D-18. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 with Test Slant Well Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 25400.0 | 75.5 |
| ϕ | 0.15 | 1 | 30058.6 | 89.6 |
| V | 27,656.4 acre-ft | 2 | 31813.6 | 94.9 |
| QS | 26,494 acre-ft/yr | 3 | 32474.7 | 96.9 |
| QR | 506 acre-ft/yr | 4 | 32723.8 | 97.6 |
| QP | 27,000 acre-ft/yr | 5 | 32817.6 | 97.9 |
| CS | 33,500 mg/L | 6 | 32852.9 | 98.0 |
| CR | 100 mg/L | 7 | 32866.2 | 98.1 |
| CO | 25,400 mg/L | 8 | 32871.2 | 98.1 |
| | | 9 | 32873.1 | 98.1 |
| | | 10 | 32873.9 | 98.1 |
| a | 0.98 | 11 | 32874.1 | 98.1 |
| b | 32,094 | 12 | 32874.2 | 98.1 |
| | | 13 | 32874.3 | 98.1 |
| | | 14 | 32874.3 | 98.1 |
| | | 15 | 32874.3 | 98.1 |
| | | 16 | 32874.3 | 98.1 |
| | | 17 | 32874.3 | 98.1 |
| | | 18 | 32874.3 | 98.1 |
| | | 19 | 32874.3 | 98.1 |
| | | 20 | 32874.3 | 98.1 |
| | | 21 | 32874.3 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

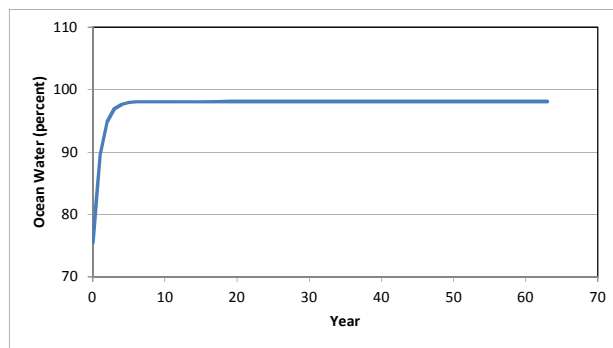
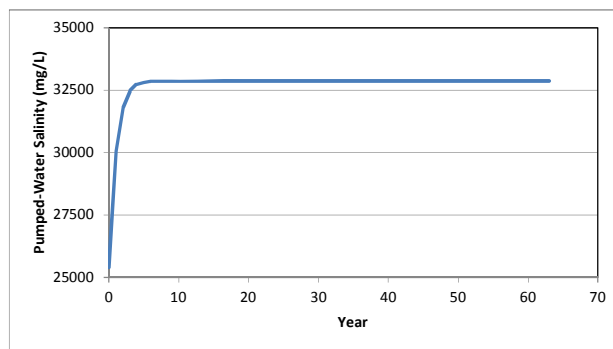


Table D-19. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 with Minimum Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 24000.0 | 71.2 |
| ϕ | 0.15 | 1 | 29531.2 | 88.0 |
| V | 27,656.4 acre-ft | 2 | 31614.9 | 94.3 |
| QS | 26,494 acre-ft/yr | 3 | 32399.9 | 96.7 |
| QR | 506 acre-ft/yr | 4 | 32695.6 | 97.6 |
| QP | 27,000 acre-ft/yr | 5 | 32807.0 | 97.9 |
| CS | 33,500 mg/L | 6 | 32848.9 | 98.0 |
| CR | 100 mg/L | 7 | 32864.7 | 98.1 |
| CO | 24,000 mg/L | 8 | 32870.7 | 98.1 |
| | | 9 | 32872.9 | 98.1 |
| | | 10 | 32873.8 | 98.1 |
| a | 0.98 | 11 | 32874.1 | 98.1 |
| b | 32,094 | 12 | 32874.2 | 98.1 |
| | | 13 | 32874.3 | 98.1 |
| | | 14 | 32874.3 | 98.1 |
| | | 15 | 32874.3 | 98.1 |
| | | 16 | 32874.3 | 98.1 |
| | | 17 | 32874.3 | 98.1 |
| | | 18 | 32874.3 | 98.1 |
| | | 19 | 32874.3 | 98.1 |
| | | 20 | 32874.3 | 98.1 |
| | | 21 | 32874.3 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

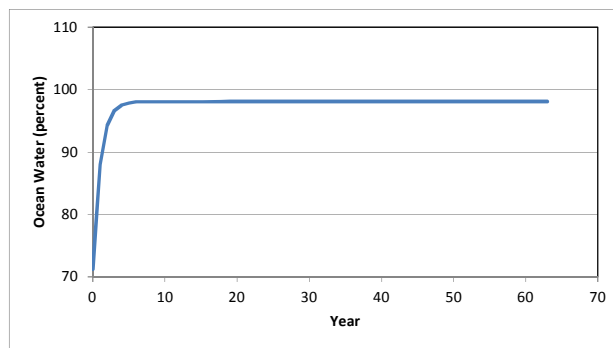
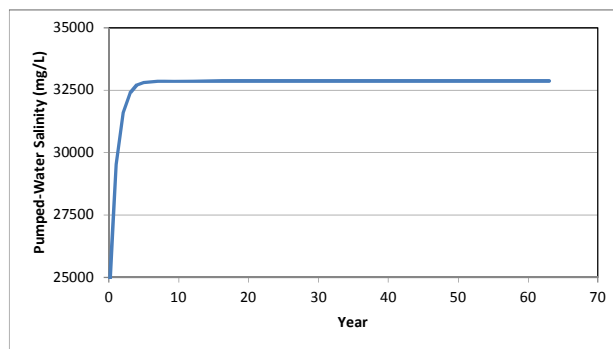


Table D-20. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 with Maximum Groundwater TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 28000.0 | 83.3 |
| φ | 0.15 | 1 | 31038.1 | 92.5 |
| V | 27,656.4 acre-ft | 2 | 32182.6 | 96.0 |
| QS | 26,494 acre-ft/yr | 3 | 32613.7 | 97.3 |
| QR | 506 acre-ft/yr | 4 | 32776.1 | 97.8 |
| QP | 27,000 acre-ft/yr | 5 | 32837.3 | 98.0 |
| CS | 33,500 mg/L | 6 | 32860.3 | 98.1 |
| CR | 100 mg/L | 7 | 32869.0 | 98.1 |
| CO | 28,000 mg/L | 8 | 32872.3 | 98.1 |
| | | 9 | 32873.5 | 98.1 |
| | | 10 | 32874.0 | 98.1 |
| a | 0.98 | 11 | 32874.2 | 98.1 |
| b | 32,094 | 12 | 32874.2 | 98.1 |
| | | 13 | 32874.3 | 98.1 |
| | | 14 | 32874.3 | 98.1 |
| | | 15 | 32874.3 | 98.1 |
| | | 16 | 32874.3 | 98.1 |
| | | 17 | 32874.3 | 98.1 |
| | | 18 | 32874.3 | 98.1 |
| | | 19 | 32874.3 | 98.1 |
| | | 20 | 32874.3 | 98.1 |
| | | 21 | 32874.3 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

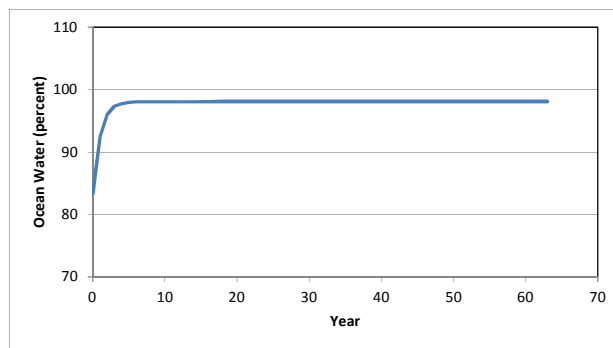
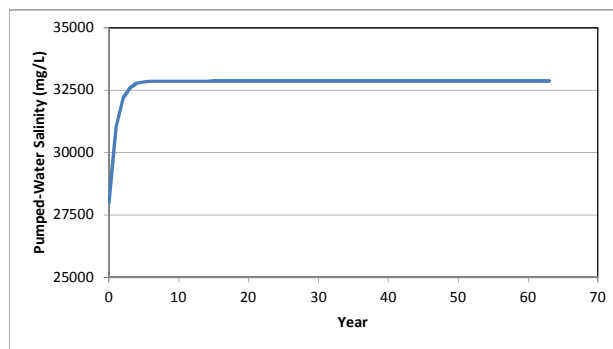


Table D-21. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 and Minimum Porosity.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| φ | 0.05 | 1 | 32506.8 | 97.0 |
| V | 9,218.8 acre-ft | 2 | 32854.6 | 98.0 |
| QS | 26,494 acre-ft/yr | 3 | 32873.2 | 98.1 |
| QR | 506 acre-ft/yr | 4 | 32874.2 | 98.1 |
| QP | 27,000 acre-ft/yr | 5 | 32874.3 | 98.1 |
| CS | 33,500 mg/L | 6 | 32874.3 | 98.1 |
| CR | 100 mg/L | 7 | 32874.3 | 98.1 |
| CO | 26,000 mg/L | 8 | 32874.3 | 98.1 |
| | | 9 | 32874.3 | 98.1 |
| | | 10 | 32874.3 | 98.1 |
| a | 2.93 | 11 | 32874.3 | 98.1 |
| b | 96,282 | 12 | 32874.3 | 98.1 |
| | | 13 | 32874.3 | 98.1 |
| | | 14 | 32874.3 | 98.1 |
| | | 15 | 32874.3 | 98.1 |
| | | 16 | 32874.3 | 98.1 |
| | | 17 | 32874.3 | 98.1 |
| | | 18 | 32874.3 | 98.1 |
| | | 19 | 32874.3 | 98.1 |
| | | 20 | 32874.3 | 98.1 |
| | | 21 | 32874.3 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

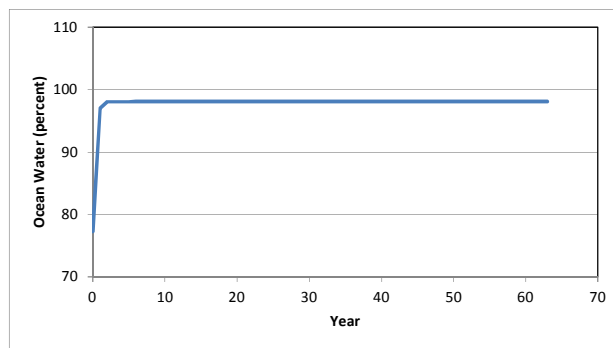
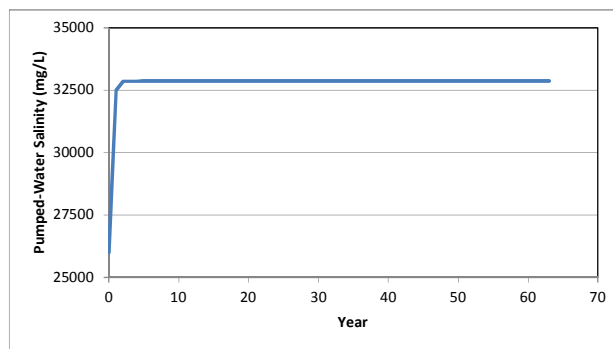


Table D-22. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 and Maximum Porosity.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| φ | 0.25 | 1 | 29047.5 | 86.5 |
| V | 46,094.0 acre-ft | 2 | 30744.0 | 91.6 |
| QS | 26,494 acre-ft/yr | 3 | 31688.4 | 94.5 |
| QR | 506 acre-ft/yr | 4 | 32214.1 | 96.1 |
| QP | 27,000 acre-ft/yr | 5 | 32506.8 | 97.0 |
| CS | 33,500 mg/L | 6 | 32669.7 | 97.5 |
| CR | 100 mg/L | 7 | 32760.4 | 97.8 |
| CO | 26,000 mg/L | 8 | 32810.9 | 97.9 |
| | | 9 | 32839.0 | 98.0 |
| | | 10 | 32854.6 | 98.0 |
| a | 0.59 | 11 | 32863.3 | 98.1 |
| b | 19,256 | 12 | 32868.2 | 98.1 |
| | | 13 | 32870.9 | 98.1 |
| | | 14 | 32872.4 | 98.1 |
| | | 15 | 32873.2 | 98.1 |
| | | 16 | 32873.7 | 98.1 |
| | | 17 | 32874.0 | 98.1 |
| | | 18 | 32874.1 | 98.1 |
| | | 19 | 32874.2 | 98.1 |
| | | 20 | 32874.2 | 98.1 |
| | | 21 | 32874.2 | 98.1 |
| | | 22 | 32874.3 | 98.1 |
| | | 23 | 32874.3 | 98.1 |
| | | 24 | 32874.3 | 98.1 |
| | | 25 | 32874.3 | 98.1 |
| | | 26 | 32874.3 | 98.1 |
| | | 27 | 32874.3 | 98.1 |
| | | 28 | 32874.3 | 98.1 |
| | | 29 | 32874.3 | 98.1 |
| | | 30 | 32874.3 | 98.1 |
| | | 31 | 32874.3 | 98.1 |
| | | 32 | 32874.3 | 98.1 |
| | | 33 | 32874.3 | 98.1 |
| | | 34 | 32874.3 | 98.1 |
| | | 35 | 32874.3 | 98.1 |
| | | 36 | 32874.3 | 98.1 |
| | | 37 | 32874.3 | 98.1 |
| | | 38 | 32874.3 | 98.1 |
| | | 39 | 32874.3 | 98.1 |
| | | 40 | 32874.3 | 98.1 |
| | | 41 | 32874.3 | 98.1 |
| | | 42 | 32874.3 | 98.1 |
| | | 43 | 32874.3 | 98.1 |
| | | 44 | 32874.3 | 98.1 |
| | | 45 | 32874.3 | 98.1 |
| | | 46 | 32874.3 | 98.1 |
| | | 47 | 32874.3 | 98.1 |
| | | 48 | 32874.3 | 98.1 |
| | | 49 | 32874.3 | 98.1 |
| | | 50 | 32874.3 | 98.1 |
| | | 51 | 32874.3 | 98.1 |
| | | 52 | 32874.3 | 98.1 |
| | | 53 | 32874.3 | 98.1 |
| | | 54 | 32874.3 | 98.1 |
| | | 55 | 32874.3 | 98.1 |
| | | 56 | 32874.3 | 98.1 |
| | | 57 | 32874.3 | 98.1 |
| | | 58 | 32874.3 | 98.1 |
| | | 59 | 32874.3 | 98.1 |
| | | 60 | 32874.3 | 98.1 |
| | | 61 | 32874.3 | 98.1 |
| | | 62 | 32874.3 | 98.1 |
| | | 63 | 32874.3 | 98.1 |

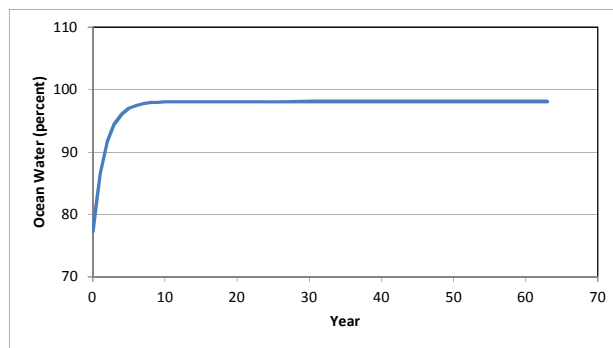
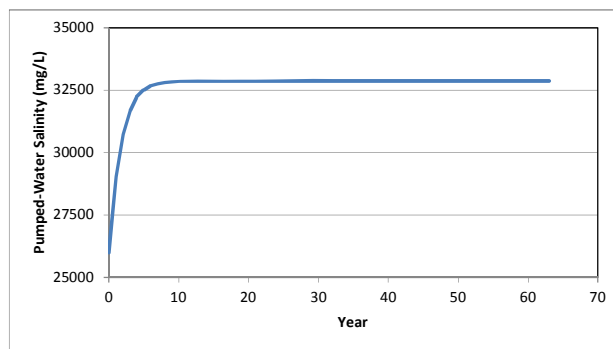


Table D-23. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 and Minimum Recharge TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| φ | 0.15 | 1 | 30283.6 | 90.3 |
| V | 27,656.4 acre-ft | 2 | 31897.3 | 95.1 |
| QS | 26,494 acre-ft/yr | 3 | 32505.2 | 97.0 |
| QR | 506 acre-ft/yr | 4 | 32734.2 | 97.7 |
| QP | 27,000 acre-ft/yr | 5 | 32820.5 | 97.9 |
| CS | 33,500 mg/L | 6 | 32853.0 | 98.0 |
| CR | 10 mg/L | 7 | 32865.2 | 98.1 |
| CO | 26,000 mg/L | 8 | 32869.8 | 98.1 |
| | | 9 | 32871.5 | 98.1 |
| | | 10 | 32872.2 | 98.1 |
| a | 0.98 | 11 | 32872.4 | 98.1 |
| b | 32,092 | 12 | 32872.5 | 98.1 |
| | | 13 | 32872.6 | 98.1 |
| | | 14 | 32872.6 | 98.1 |
| | | 15 | 32872.6 | 98.1 |
| | | 16 | 32872.6 | 98.1 |
| | | 17 | 32872.6 | 98.1 |
| | | 18 | 32872.6 | 98.1 |
| | | 19 | 32872.6 | 98.1 |
| | | 20 | 32872.6 | 98.1 |
| | | 21 | 32872.6 | 98.1 |
| | | 22 | 32872.6 | 98.1 |
| | | 23 | 32872.6 | 98.1 |
| | | 24 | 32872.6 | 98.1 |
| | | 25 | 32872.6 | 98.1 |
| | | 26 | 32872.6 | 98.1 |
| | | 27 | 32872.6 | 98.1 |
| | | 28 | 32872.6 | 98.1 |
| | | 29 | 32872.6 | 98.1 |
| | | 30 | 32872.6 | 98.1 |
| | | 31 | 32872.6 | 98.1 |
| | | 32 | 32872.6 | 98.1 |
| | | 33 | 32872.6 | 98.1 |
| | | 34 | 32872.6 | 98.1 |
| | | 35 | 32872.6 | 98.1 |
| | | 36 | 32872.6 | 98.1 |
| | | 37 | 32872.6 | 98.1 |
| | | 38 | 32872.6 | 98.1 |
| | | 39 | 32872.6 | 98.1 |
| | | 40 | 32872.6 | 98.1 |
| | | 41 | 32872.6 | 98.1 |
| | | 42 | 32872.6 | 98.1 |
| | | 43 | 32872.6 | 98.1 |
| | | 44 | 32872.6 | 98.1 |
| | | 45 | 32872.6 | 98.1 |
| | | 46 | 32872.6 | 98.1 |
| | | 47 | 32872.6 | 98.1 |
| | | 48 | 32872.6 | 98.1 |
| | | 49 | 32872.6 | 98.1 |
| | | 50 | 32872.6 | 98.1 |
| | | 51 | 32872.6 | 98.1 |
| | | 52 | 32872.6 | 98.1 |
| | | 53 | 32872.6 | 98.1 |
| | | 54 | 32872.6 | 98.1 |
| | | 55 | 32872.6 | 98.1 |
| | | 56 | 32872.6 | 98.1 |
| | | 57 | 32872.6 | 98.1 |
| | | 58 | 32872.6 | 98.1 |
| | | 59 | 32872.6 | 98.1 |
| | | 60 | 32872.6 | 98.1 |
| | | 61 | 32872.6 | 98.1 |
| | | 62 | 32872.6 | 98.1 |
| | | 63 | 32872.6 | 98.1 |

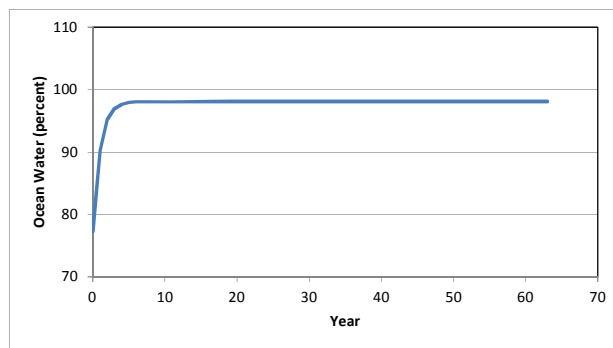
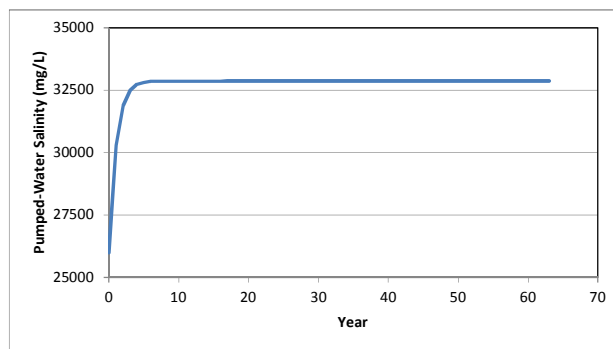


Table D-24. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 and Maximum Recharge TDS.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 30285.8 | 90.3 |
| V | 27,656.4 acre-ft | 2 | 31900.3 | 95.2 |
| QS | 26,494 acre-ft/yr | 3 | 32508.5 | 97.0 |
| QR | 506 acre-ft/yr | 4 | 32737.7 | 97.7 |
| QP | 27,000 acre-ft/yr | 5 | 32824.0 | 98.0 |
| CS | 33,500 mg/L | 6 | 32856.5 | 98.1 |
| CR | 200 mg/L | 7 | 32868.8 | 98.1 |
| CO | 26,000 mg/L | 8 | 32873.4 | 98.1 |
| | | 9 | 32875.1 | 98.1 |
| | | 10 | 32875.8 | 98.1 |
| a | 0.98 | 11 | 32876.0 | 98.1 |
| b | 32,096 | 12 | 32876.1 | 98.1 |
| | | 13 | 32876.1 | 98.1 |
| | | 14 | 32876.1 | 98.1 |
| | | 15 | 32876.2 | 98.1 |
| | | 16 | 32876.2 | 98.1 |
| | | 17 | 32876.2 | 98.1 |
| | | 18 | 32876.2 | 98.1 |
| | | 19 | 32876.2 | 98.1 |
| | | 20 | 32876.2 | 98.1 |
| | | 21 | 32876.2 | 98.1 |
| | | 22 | 32876.2 | 98.1 |
| | | 23 | 32876.2 | 98.1 |
| | | 24 | 32876.2 | 98.1 |
| | | 25 | 32876.2 | 98.1 |
| | | 26 | 32876.2 | 98.1 |
| | | 27 | 32876.2 | 98.1 |
| | | 28 | 32876.2 | 98.1 |
| | | 29 | 32876.2 | 98.1 |
| | | 30 | 32876.2 | 98.1 |
| | | 31 | 32876.2 | 98.1 |
| | | 32 | 32876.2 | 98.1 |
| | | 33 | 32876.2 | 98.1 |
| | | 34 | 32876.2 | 98.1 |
| | | 35 | 32876.2 | 98.1 |
| | | 36 | 32876.2 | 98.1 |
| | | 37 | 32876.2 | 98.1 |
| | | 38 | 32876.2 | 98.1 |
| | | 39 | 32876.2 | 98.1 |
| | | 40 | 32876.2 | 98.1 |
| | | 41 | 32876.2 | 98.1 |
| | | 42 | 32876.2 | 98.1 |
| | | 43 | 32876.2 | 98.1 |
| | | 44 | 32876.2 | 98.1 |
| | | 45 | 32876.2 | 98.1 |
| | | 46 | 32876.2 | 98.1 |
| | | 47 | 32876.2 | 98.1 |
| | | 48 | 32876.2 | 98.1 |
| | | 49 | 32876.2 | 98.1 |
| | | 50 | 32876.2 | 98.1 |
| | | 51 | 32876.2 | 98.1 |
| | | 52 | 32876.2 | 98.1 |
| | | 53 | 32876.2 | 98.1 |
| | | 54 | 32876.2 | 98.1 |
| | | 55 | 32876.2 | 98.1 |
| | | 56 | 32876.2 | 98.1 |
| | | 57 | 32876.2 | 98.1 |
| | | 58 | 32876.2 | 98.1 |
| | | 59 | 32876.2 | 98.1 |
| | | 60 | 32876.2 | 98.1 |
| | | 61 | 32876.2 | 98.1 |
| | | 62 | 32876.2 | 98.1 |
| | | 63 | 32876.2 | 98.1 |

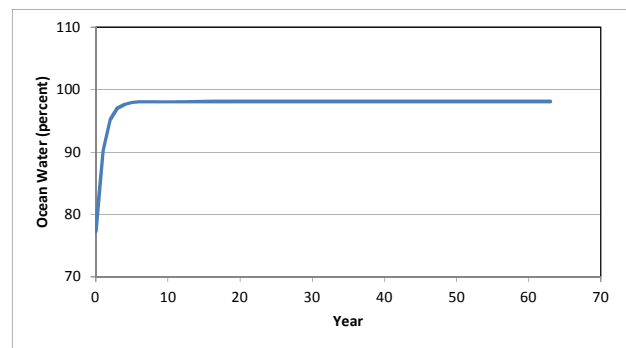
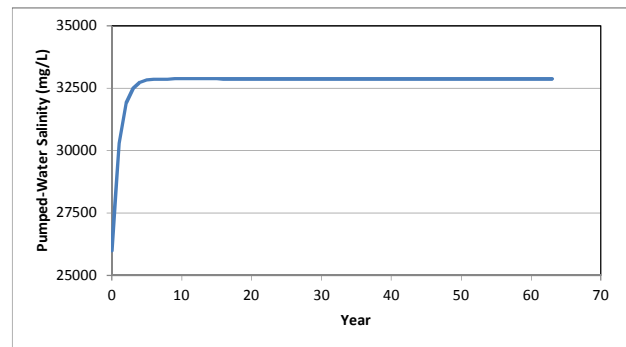


Table D-25. OWP Analysis for 24.1 MGD with Hydraulic Gradient of 0.0011 and Minimum Groundwater Recharge.

| Parameters | | t (yr) | C (mg/L) | OWP (percent) |
|------------|-------------------|-----------|-------------|------------------|
| A | 1,213 acres | | | |
| B | 152 ft | 0 | 26000.0 | 77.3 |
| ϕ | 0.15 | 1 | 30557.7 | 91.1 |
| V | 27,656.4 acre-ft | 2 | 32274.7 | 96.3 |
| QS | 26,848 acre-ft/yr | 3 | 32921.5 | 98.2 |
| QR | 152 acre-ft/yr | 4 | 33165.2 | 99.0 |
| QP | 27,000 acre-ft/yr | 5 | 33257.0 | 99.3 |
| CS | 33,500 mg/L | 6 | 33291.5 | 99.4 |
| CR | 100 mg/L | 7 | 33304.6 | 99.4 |
| CO | 26,000 mg/L | 8 | 33309.5 | 99.4 |
| | | 9 | 33311.3 | 99.4 |
| | | 10 | 33312.0 | 99.4 |
| a | 0.98 | 11 | 33312.3 | 99.4 |
| b | 32,522 | 12 | 33312.4 | 99.4 |
| | | 13 | 33312.4 | 99.4 |
| | | 14 | 33312.4 | 99.4 |
| | | 15 | 33312.4 | 99.4 |
| | | 16 | 33312.4 | 99.4 |
| | | 17 | 33312.4 | 99.4 |
| | | 18 | 33312.4 | 99.4 |
| | | 19 | 33312.4 | 99.4 |
| | | 20 | 33312.4 | 99.4 |
| | | 21 | 33312.4 | 99.4 |
| | | 22 | 33312.4 | 99.4 |
| | | 23 | 33312.4 | 99.4 |
| | | 24 | 33312.4 | 99.4 |
| | | 25 | 33312.4 | 99.4 |
| | | 26 | 33312.4 | 99.4 |
| | | 27 | 33312.4 | 99.4 |
| | | 28 | 33312.4 | 99.4 |
| | | 29 | 33312.4 | 99.4 |
| | | 30 | 33312.4 | 99.4 |
| | | 31 | 33312.4 | 99.4 |
| | | 32 | 33312.4 | 99.4 |
| | | 33 | 33312.4 | 99.4 |
| | | 34 | 33312.4 | 99.4 |
| | | 35 | 33312.4 | 99.4 |
| | | 36 | 33312.4 | 99.4 |
| | | 37 | 33312.4 | 99.4 |
| | | 38 | 33312.4 | 99.4 |
| | | 39 | 33312.4 | 99.4 |
| | | 40 | 33312.4 | 99.4 |
| | | 41 | 33312.4 | 99.4 |
| | | 42 | 33312.4 | 99.4 |
| | | 43 | 33312.4 | 99.4 |
| | | 44 | 33312.4 | 99.4 |
| | | 45 | 33312.4 | 99.4 |
| | | 46 | 33312.4 | 99.4 |
| | | 47 | 33312.4 | 99.4 |
| | | 48 | 33312.4 | 99.4 |
| | | 49 | 33312.4 | 99.4 |
| | | 50 | 33312.4 | 99.4 |
| | | 51 | 33312.4 | 99.4 |
| | | 52 | 33312.4 | 99.4 |
| | | 53 | 33312.4 | 99.4 |
| | | 54 | 33312.4 | 99.4 |
| | | 55 | 33312.4 | 99.4 |
| | | 56 | 33312.4 | 99.4 |
| | | 57 | 33312.4 | 99.4 |
| | | 58 | 33312.4 | 99.4 |
| | | 59 | 33312.4 | 99.4 |
| | | 60 | 33312.4 | 99.4 |
| | | 61 | 33312.4 | 99.4 |
| | | 62 | 33312.4 | 99.4 |
| | | 63 | 33312.4 | 99.4 |

