

***Issued MBNMS Permits, Amendments and Authorizations
(2/15/2019 to 4/3/2019)***

Report created for the

April 19, 2019

Monterey Bay National Marine Sanctuary Advisory Council Meeting

MBNMS-2018-042

Permit Type: Authorization

Permit Holder Name (Affiliation): John M. Robertson (Central Coast Regional Water Quality Control Board) and Tamsen McNarie (Monterey One Water)

Subject/Location: NOAA's Monterey Bay National Marine Sanctuary Authorization MBNMS-2018-042 of Waste Discharge Requirements Order No. R3-2018-0017, National Pollutant Discharge Elimination System (NPDES) No. CA0048551 for the Monterey One Water Regional Wastewater Treatment Plant (WWTP) and Advanced Water Purification Facility (AWPF), Monterey County.

Permitted Activity: The permit reissuance includes provisions to allow the Advanced Water Purification Facility (AWPF) of the Pure Water Monterey (PWM) Project to operate at full-scale, including enabling the project proponent, Monterey One Water (M1W) to discharge waste stream generated by the AWPF to the ocean outfall. Discharge of secondary treated wastewater, saline waste, and reverse osmosis (RO) concentrate wastewater, limited to 81.2 million gallons per day (MGD), can occur at 36.72778 N, -121.83750 W.

Permitted dates: through March 31, 2024

Comments/Notes: An Environmental Assessment (EA) was prepared for this project, titled "Final Environmental Assessment for the Authorization of the National Pollutant Discharge Elimination System Permit for the Monterey One Water Regional Wastewater Treatment Plant and Advanced Water Purification Facility". The subsequent Finding Of No Significant Impact (FONSI) determined the Project would not significantly impact the quality of the human environment as described in the supporting Environmental Assessment.

MBNMS-2019-005

Permit Type: Research

Permit Holder Name (Affiliation): Takayoshi Nagaya (University of Southern California)

Project Title: Rock microstructural analysis and the strength profile of continental crust

Project Location(s): from the north point of Sand Dollar Beach (35°55'38.18"N, 121°28'07.85"W) to the south point of Jade Cove (35°54'42.50"N, 121°28'12.35"W).

Permitted Activity: Alteration of the submerged lands of the Sanctuary to collect a total of up to 36 kilograms of talc-rich rocks and surrounding rock outcrops using a hammer and chisels to evaluate the physical property of talc-rich rock, the permeability and frictional behaviors at the lithofacies boundary, potential risk of landslides and the mechanism of earthquakes in subduction zones in the world.

Permitted dates: April 1, 2019 through March 31, 2020

Comments/Notes: N/A

MBNMS-2018-039

Permit Type: Research

Permit Holder Name (Affiliation): Jan Freiwald (Reef Check California)

Project Title: Monterey Bay Urchin Experiment - Identify a threshold population density of purple sea urchins at Lovers #3 dive site at which giant kelp forests will re-establish.

Project Location(s): within the Pacific Grove Marine Gardens State Marine Conservation Area (SMCA)

Permitted Activity: Alteration of the submerged lands for the installation and removal of a total of approximately twenty (20) anchors, either epoxy/bolt anchors or earth anchors, each with one (1) associated PVC identification tag for up to twenty (20) tags to coordinate urchin monitoring and manipulation activities on the target reefs. If epoxy/bolt anchors cannot be removed without damaging the surrounding natural area, they may be abandoned.

Permitted dates: March 21, 2019 through August 21, 2021

Comments/Notes: California Department of Fish and Wildlife (CDFW) Scientific Collecting Permit (SCP) 2018-005486 was approved by CDFW for research within the Pacific Grove Marine Gardens State Marine Conservation Area (SMCA) and expires 8/21/2021.

MULTI-2019-001

Permit Type: Research

Permit Holder Name (Affiliation): Bill Hansen (NOAA National Data Buoy Center)

Project Title: NOAA Weather Buoys 46FLO, 46042, 46012, 46026, 46013, 46041, 41008, 41025 and 44018

Project Location(s):

- 1.) NDBC Station 46FLO (in MBNMS)- 6-meter NOMAD wave test buoy-near Monterey: Approximately 36.668 N, 122.562 W, Depth = 2330 meters
- 2.) NDBC Station 46042 (in MBNMS) - Monterey-27 NM WNW of Monterey: Approximately 36.785 N, 122.398 W, Depth = 1646 meters.
- 3.) NDBC Station 46012 (in MBNMS) - Half Moon Bay-24NM SSW of San Francisco Location: Approximately 37.356 N, 122.881 W, Depth = 209 meters.
- 4.) NDBC Station 46026 (in GFNMS)-San Francisco- 18 NM West of San Francisco: Approximately 37.754 N, 122.839 W, Depth = 53 meters.
- 5.) NDBC Station 46013 (in CBNMS)-Bodega Bay, 48 NM NNW of San Francisco: Approximately 38.238 N, 123.307 W, Depth = 127 meters.
- 6.) NDBC Station 46041 (in OCNMS)- Cape Elizabeth- 45NM NW of Aberdeen, WA: Approximately 47.353 N, 124.742 W, Depth = 114 meters.
- 7.) NDBC Station 41008 (in GRNMS)-GRAYS REEF - 40 NM Southeast of Savannah, GA: Approximately 31.400 N, 80.868 W, Depth = 15 meters
- 8.) NDBC Station 41025 (in MNMS)-Diamond Shoals, 11NM SE of Diamond Shoals, NC: Approximately 35.005 N, 75.403 W, Depth = 64 meters
- 9.) NDBC Station 44018 (in SBNMS)-CAPE COD - 9 NM North of Provincetown, MA: Approximately 42.206 N, 70.143 W, Depth = 42 meters

Permitted Activity: Alteration of the submerged lands for deploying moorings and their anchors at nine (9) locations (see details below in Permitted Activity Location and Special Terms and Conditions) in MBNMS, GFNMS, CBNMS, OCNMS, GRNMS, MNMS and SBNMS and temporary discharge of buoys, mooring components, anchors and chains to collect and disseminate oceanographic and meteorological data; replacement of buoys, mooring components, anchors and chains approximately every 3-5 years within MBNMS, GFNMS, CBNMS, OCNMS, GRNMS, MNMS and SBNMS; and abandonment of portions of some moorings and anchors as specified in the Special Terms and Conditions.

Permitted dates: March 15, 2019 through January 1, 2024

Comments/Notes: Requested that the permittee contact USCG for a Notice to Mariners; GRNMS, SBNMS, MBNMS, GFNMS, CBNMS and OCNMS buoys were then covered by MULTI-2018-005 and this MULTI added buoy in MNMS.

MBNMS-2019-006

Permit Type: Education

Permit Holder Name (Affiliation): Dr. Thomas Azwell (University of California, Berkeley)

Project Title: Autonomous Surface Vessel research training

Project Location(s): throughout MBNMS.

Permitted Activity: Temporary discharge of one (1) Autonomous Surface Vessel (ASV) Wave Glider for approximately 6 days per survey for up to three (3) surveys to provide a teaching opportunity supported by MBARI for students and faculty from University of California, Berkeley and the University of the Philippines, Marine Science Institute.

Permitted dates: March 14, 2019 through March 14, 2020

Comments/Notes: The ASV will be deployed from the R/V Paragon vessel on March 14th and recovered 6 days later but other tests are a possibility.

MBNMS-2019-004

Permit Type: Research

Permit Holder Name (Affiliation): Kerry Ann Crehan-Strom (Woods Hole Oceanographic Institution)

Project Title: Davidson Seamount and 'Octopus Gardens' dive objectives will be to explore the boundaries of the octopus garden, take seep/ vent water samples, rocks and still/ video imagery.

Project Location(s): Davidson Seamount Management Zone

Permitted Activity: to help MBNMS better understand the resources and the deep sea environment of Davidson Seamount and 'Octopus Gardens':

- Alteration of submerged lands of the sanctuaries for collection of biological and geological samples and landing the Human Occupied Vehicle (HOV) Alvin
- Collection and possession of sponges and corals after consultation with the lead scientist by the watch lead or HOV pilot
- Collection and possession of vent animals, including whelks and anemones
- Collection and possession for up to four (4) softball sized rocks per HOV dive
- Abandonment on soft sediment of ballast weight of approximately 3560 pounds of iron oxide total for three dives

Permitted dates: March 26, 2019 through March 29, 2019

Comments/Notes: Chad King, MBNMS Research Team, will be on board.

MBNMS-2018-044

Permit Type: Education and Research

Permit Holder Name (Affiliation): Hannah Sarver (Pacific Grove Museum of Natural History)

Project Title: LiMPETS (Long-term Environmental Monitoring Program and Experiential Training for Students)

Project Location(s): MBNMS

Permitted Activity: Drilling into and alteration of the submerged lands for placing up to approximately 60 transect markers or embedding bolts in the rocky reef for monitoring the rocky intertidal sites and altering the submerged lands for coring the sandy swash zone to count the Pacific mole crab, *Emerita analoga*, for the purpose of the LiMPETS Program.

Permitted dates: March 4, 2019 through January 1, 2024

Comments/Notes: Previous Permit: MBNMS-2015-041

If you are interested in learning more about a specific permit, amendment or authorization action, please contact:

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