



BIOLOGICAL AND ENVIRONMENTAL MONITORING REPORT SAN DIEGO SHIPYARD SEDIMENT SITE – SOUTH SHIPYARD

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1 INTRODUCTION

The San Diego Bay Environmental Restoration Fund – South (South Trust) is remediating contaminated sediments at the South Shipyard portion of the San Diego Shipyard Sediment Site (Site). Remediation is required to comply with Cleanup and Abatement Order (CAO) No. R9-2012-0024 issued by the San Diego Regional Water Quality Control Board (Water Board 2012a). Biological and environmental monitoring must be conducted during dredging operations to comply with the following:

- Mitigation Monitoring and Reporting Program (MMRP; Water Board 2012b)
 - Mitigation Measures (MM) 4.5.3 through 4.5.6 and 4.5.9
- U.S. Army Corps of Engineers Individual Permit (IP; 2013)
 - Dredging Condition 16
 - Essential Fish Habitat (EFH) and Green Sea Turtle Condition 1¹
 - Endangered Species Act (ESA) Condition 1
- Waste Discharge Requirements and Section 401 Water Quality Certification (WDR/WQC) Order No. R9-2013-0093 (Water Board 2013)
 - Section V-N.10
 - Discharge Requirement VI-C

Anchor QEA, L.P., was contracted by the South Trust to conduct biological and environmental monitoring.

This Biological and Environmental Monitoring Report documents biological and environmental monitoring performed at the Site. The permit condition(s) applicable to each discussion are noted herein. Water quality monitoring results and discussion are provided in a separate report.

This report summarize activities undertaken between September 29 and October 5, 2013, and as such, it fulfills the weekly monitoring requirements for the period between Monday,

¹ EFH and Green Sea Turtle Condition 1 also requires photographs of the silt curtain and turbidity monitoring observations. This information is provided in a separate water quality report.

September 30 and Saturday, October 5 as well as the monthly monitoring requirements for the month of September. Typically, this report would cover Monday through Saturday; however, pre-construction special status bird monitoring occurred on Sunday, September 29 prior to the start of construction on Monday, September 30. Therefore, September 29 was also included in this report.

During this time period, dredging occurred in Sediment Management Unit (SMU)-4 on September 30 and October 1 and the Sediment Management Area was readied for dewatering activities.

2 BIOLOGICAL RESOURCES MONITORING

Monitoring for biological resources includes activities specified in the MMRP biological resources category, USACE IP, and WDR/WQC. Specifically, monitoring includes training the construction crew on eelgrass avoidance and sea turtles, marine mammals, and special status bird life and observing, documenting, and reporting the presence and behaviors of these species.

The USACE IP (Dredging Condition 16) requires weekly biological monitoring reporting, and the MMRP (MMs 4.5.3 through 4.5.6 and 4.5.9) requires monthly biological monitoring reporting. This report fulfills both requirements.

2.1.1 Contractor Training Log Information

Per MMs 4.5.3 and 4.5.6 and WDR/WQC Discharge Requirement VI-C, the project biologist is required to train the construction crew on how to identify potential sea turtles, marine mammals, and special status birds, such as California least tern (*Sternula antillarum browni*), that may be present at the Site. Training for the four crew members on the dredging barge and one supervisor occurred on Monday, September 30, 2013, and will occur for the remainder of the crew in forthcoming weeks. The construction crew was provided with identification characteristics of species with the potential to be present at the Site and instructions on how to contact the project biologist if these species were observed. No additional training occurred during the week, because in-water construction activities were temporarily stopped on October 1 for the contractor to complete setup of the SMA, which will be used to transfer sediment from barges to trucks for transport to the landfill.

Typically, training will also include educating the construction crew on limits of the pre-dredge survey areas of eelgrass beds. No construction occurred in SMUs-1 and -2, which are the SMUs currently containing eelgrass (Merkel 2013); therefore, no training was conducted at this time.

2.1.2 Eelgrass Monitoring

Per MM 4.5.4, project-related barges and work vessels operating in areas where eelgrass beds exist will be operated in a manner to ensure that eelgrass beds are not impacted through

grounding, propeller damage, or other activities that may disturb the seafloor. In addition, the project biologist will confirm that these protective measures are implemented. MM 4.5.3 requires that the project biologist meet with the construction crew to provide training on these conditions and that a training log be submitted monthly. As previously stated, no construction occurred in SMU-1 and -2 where eelgrass was identified during the pre-construction survey; therefore, no monitoring or contractor training regarding eelgrass was needed at this time. Training will occur prior to construction in these SMUs.

2.1.3 Green Sea Turtle and Marine Mammal Monitoring

Per MM 4.5.5, WDR/WQC Section V-N.10, WDR/WQC VI-C, and USACE IP EFH and Green Sea Turtle Condition 1, barges and work vessels will be operated in a manner to ensure that green sea turtles (*Chelonia mydas*) and marine mammals are not injured or harassed through excessive vessel speed or propeller damage. MM 4.5.7 and WDR/WQC VI-C states that construction activities will be temporarily stopped if a sea turtle or marine mammal is sighted within 100 meters of the construction zone and will remain stopped until the animal is safely outside the outer perimeter of activities. In addition, MM 4.5.6 states that the project biologist will train the construction crew on these species and requires a training log be submitted monthly.

No green sea turtles or marine mammals were sighted during this reporting period; therefore, no special construction measures were required at this time. The contractor training log was provided in Section 2.1.1.

2.1.4 Special Status Bird Monitoring

Per MM 4.5.9, WDR/WQC VI,-B and USACE IP ESA Condition 1, a qualified biologist familiar with the California least tern and other special status seabirds and waterfowl should be on site to assess the roosting and foraging behavior of special status seabirds and waterfowl at the Site and the staging area. In addition, all dredging and disposal work shall occur outside the California least tern breeding season of April 1 through September 1 with a double silt curtain unless otherwise approved by the USACE. MM 4.5.9 further requires monitoring of special status bird species during project construction must occur daily at first

and then weekly once it is determined that activities are not adversely affecting seabirds and waterfowl.

Special status bird species are defined herein as those that are federally listed (endangered, threatened, or proposed endangered or threatened or candidate) under the ESA or classified with special status in the state of California (endangered, threatened, rare, candidate endangered or threatened; species of special concern; or special animal; Water Board 2012b). If substantial adverse impacts to special status seabirds and waterfowl result from project activities (e.g., disrupting nesting or foraging activities or harassing roosting birds) and/or in the event of an imminent threat to California least tern and/or other special status species, the project biologist will immediately contact the contractor. In the event that the contractor is not available, the project biologist will have the authority to redirect or halt construction activities if determined to be necessary. The project biologist will provide information to the contractor for operations to continue in a manner that special status birds are not injured or harassed through construction activities. Such measures may include speed restrictions or off-limit areas.

Per MM 4.5.9, a pre-construction monitoring event was conducted prior to commencing dredging operations. Pre-construction and daily monitoring are described below.

2.1.4.1 Pre-Construction Monitoring

The project biologist performed pre-construction monitoring for the presence and behavior of California least tern and other special status birds. This monitoring included a monitoring event performed on Sunday, September 29, 2013, prior to the start of dredging on Monday, September 30. The monitoring event was dedicated specifically to observing (via binoculars) the Site for special status bird. Observations were conducted within monitoring areas as identified on Figure 1, which correspond to approximately 500 feet surrounding the anticipated construction activities. No California least terns or other special status birds were observed during pre-construction monitoring. Details of these observations are presented in Appendix A.

2.1.4.2 *Daily Monitoring*

Daily monitoring was performed to document observations of special status bird species while performing other project duties. No California least terns were observed during the reporting period. Special status birds observed included California brown pelican (*Pelecanus occidentalis*) and osprey (*Pandio haliaetus*), both observed flying over the Site. These birds were not disturbed by construction activity. Details of these observations are presented in Appendix A.

3 ENVIRONMENTAL COMPLIANCE INSPECTIONS

Environmental compliance inspections consist of observing construction activities to confirm that conditions and requirements of project permits and documents are being met.

Specifically, the USACE IP Dredging Condition 16 requires use of an environmental clamshell bucket or closed bucket as necessary, double silt curtains, watertight barge containments, return water controls precluding water re-entering the bay, and barge debris gates with weekly reporting to the USACE. These requirements are being implemented (if applicable) during construction as documented through the daily environmental inspection reports in Appendix B. The USACE IP condition also requires turbidity monitoring per the WDR/WQC, which is documented in separate water quality monitoring reports.

For this reporting period, activities requiring environmental compliance were evaluated on a daily basis at the Site, beginning when dredging commenced on Monday, September 30, 2013. Notes were kept on if the applicable activity met permit conditions or project requirements and included an explanation of those activities not applicable. These permit conditions and project requirements and corresponding notes are presented in Appendix B.

No compliance issues or concerns were noted during this reporting period. Several conditions were not applicable due to the specific activity set for the reporting period, and the explanatory notes are available in Appendix B.

4 SEDIMENT MANAGEMENT AREA DISCHARGE MONITORING

All water collected as a part of dredging operations will be managed at the SMA, and the processed water will be discharged to the City of San Diego's sanitary sewer system in accordance with the requirements of the Industrial User Discharge Permit (City 2013). The USACE IP Dredging Condition 16 requires a weekly summary of this discharge monitoring, which is provided here.

The water management system at the SMA was not yet fully constructed and ready to process collected water; therefore, no discharges at the SMA occurred and no samples were collected.

5 REFERENCES

City (City of San Diego), 2013. Industrial User Discharge Permit, Industry Number 11-0563. Issued on September 17, 2013.

Merkel (Merkel & Associates, Inc.), 2013. Pre-Construction Eelgrass Report for the San Diego Shipyard Sediment Matter – Cleanup and Abatement Order No. R9-2012-0024 South Shipyard Sediment Cleanup Project. September 15, 2013.

USACE (U.S. Army Corps of Engineers), 2013. Department of the Army Permit, File No. SPL-2013-00147-RRS. Issued on September 13, 2013.

Water Board (California Regional Water Quality Control Board, San Diego Region), 2012a. Cleanup and Abatement Order No. R9-2012-0024 for the Shipyard Sediment Site. Issued on March 14, 2012.

Water Board, 2012b. *Final Environmental Impact Report*. March 14, 2012.

Water Board, 2013. Waste Discharge Requirements for National Steel and Shipbuilding Company, BAE Systems San Diego Ship Repair, Inc., San Diego Unified Port District. Order No. R9-2013-0093. San Diego Shipyard Sediment Remediation, San Diego Bay, San Diego, California. Issued on July 10, 2013.

FIGURE

Q:\Jobs\20196-01_BAE_Systems\Maps\2013_09\NASSCO_BirdMonitoringAreas.mxd nkoche 10/9/2013 4:16:12 PM

-  Bird Monitoring Area
-  Sediment Management Unit (SMU)

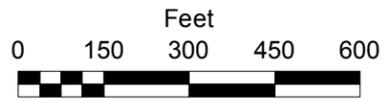


Figure 1
Special Status Bird Monitoring Areas
San Diego Shipyard Sediment Site – South Shipyard

APPENDIX A
SPECIAL STATUS BIRD MONITORING
DATASHEETS

APPENDIX B
ENVIRONMENTAL COMPLIANCE
CHECKLISTS

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|------------------------------|--|---|--|--|--|--|--|--|
| Wildlife and Plants | | | | | | | | | |
| During | USACE IP: ESA Condition 1 | 1. ESA coverage 2. Work timing limitations 3. Monitoring requirements 4. Monthly reporting requirements | Is there a double silt curtain or USACE approval to conduct work without a curtain? | Y | Y | N/A - not dredging today |
| Post- | 4.5.1 - MMRP | Biological Resources | If dredging/sand cover work is complete, was a post- dredging eelgrass survey implemented? If dredging/sand cover not complete, state N/A. | N/A - dredging/sand cover is not complete | N/A - dredging/sand cover is not complete | N/A - dredging/sand cover is not complete | N/A - dredging/sand cover is not complete | N/A - dredging/sand cover is not complete | N/A - dredging/sand cover is not complete |
| Pre-, During | 4.5.2 - MMRP | Biological Resources | Are eelgrass beds marked with buoys? | N/A - not working in SMU-1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 |
| During | 4.5.3 - MMRP | Biological Resources | Is the biologist meeting regularly with construction crews to review eelgrass areas and construction methods and completing a training log to document this? | Y - meeting held today re: sensitive resources | Y | N/A - no on- water work today |
| During | 4.5.4 - MMRP | Biological Resources | Is work being conducted such that eelgrass beds are not being impacted? | N/A - not working in SMU-1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 | N/A - not working in SMU- 1 or -2 |
| During | 4.5.5 - MMRP | Biological Resources | Is work being conducted such that sea turtles and marine mammals are not being injured or harassed? | Y - meeting held today re: sensitive resources | Y | N/A - no on- water work today |
| During | 4.5.6 - MMRP | Biological Resources | Is the biologist meeting regularly with construction crews to ensure that marine mammals and sea turtles are recognizable to construction crews and they know what to do in the event of a sighting? | Y - meeting held today re: sensitive resources | Y | N/A - no on- water work today |
| During | 4.5.7 - MMRP | Biological Resources | Is the biologist monitoring for sea turtles and instructing the construction crew accordingly? | Y - meeting held today re: sensitive resources | Y | N/A - no on- water work today |
| During | 4.5.8 - MMRP | Biological Resources | Is the biologist preparing incident reports of any sea turtles or marine mammals in the project area and/or any collisions and informing the contractor, CDFG, and NMFS accordingly? | N/A no sightings today | N/A no sightings today | N/A no sightings today | N/A no sightings today | N/A no sightings today | N/A no sightings today |
| Pre-, During | 4.5.9 - MMRP | Biological Resources | Is the biologist monitoring pre-construction and weekly for substantial adverse impacts that are occurring to special status birds and informing the contractor accordingly? | Y | Y | Y | Y | Y | Y |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|--|----------------------|---|---|---|---|---|---|---|
| During | WDR - Section, V Provision L | Biological Resources | Is the turbidity curtain at least 30 feet away from marked eelgrass beds that are not directly impacted by dredging? | N/A - not working in SMU-1 or -2 | N/A - not working in SMU-1 or -2 | N/A - not working in SMU-1 or -2 | N/A - not working in SMU-1 or -2 | N/A - not working in SMU-1 or -2 | N/A - not working in SMU-1 or -2 |
| During | USACE IP: EFH/GST Condition 1 | EFH Requirements | Are the EFH conservation recommendations from NMFS (April 2013 letter) being followed? Is the biologist notifying USACE of any green sea turtle sightings and notifying NMFS of any collisions? | Y | Y | N/A - no on-water work today |
| Air Quality | | | | | | | | | |
| Pre-, During | 4.6.3 - MMRP | Air Quality | Is an on-site vehicle speed of 15 mph being adhered to? | N/A - no driving by contractors currently |
| During | 4.6.11 - MMRP | Air Quality | Are construction equipment engines maintained and in proper tune? | Y | Y | Y | Y | Y | Y |
| Pre-, During | 4.6.12 - MMRP | Air Quality | Are construction equipment and vehicles turned off when not in use for more than 5 minutes? | Y | Y | Y | Y | Y | Y |
| Pre-, During | 4.6.15 - MMRP | Air Quality | If odor is an issue with dredged material, is Simple Green or water being used to reduce odor and accelerate decomposition? | N/A - odor not an issue today |
| Pre-, During | 4.6.1 - MMRP | Air Quality | Are dredge, treatment, and haul activities NOT interfering with peak-hour traffic and or obstructing traffic lanes adjacent to the site? If so, is there a flag person available? | N/A - treatment and hauling not occurring at this time. | N/A - treatment and hauling not occurring at this time. | N/A - treatment and hauling not occurring at this time. | N/A - treatment and hauling not occurring at this time. | N/A - treatment and hauling not occurring at this time. | N/A - treatment and hauling not occurring at this time. |
| Pre-, During | 4.6.5 - MMRP | Air Quality | Is all excavated and dredged material, construction areas, or roads either not creating airborne dust visible beyond the property line, or being sufficiently watered and/or surfactant applied to prevent this condition? | Y | Y | Y | Y | Y | Y |
| Pre-, During | 4.6.6 - MMRP | Air Quality | Is earthmoving activity ceasing during high winds over 25 mph? | N/A - no high winds today |
| Pre-, During | 4.6.7 - MMRP | Air Quality | Is all material being transported off site either sufficiently wet or securely covered such that excessive dust is being prevented and is visible roadway dust from track-out being minimized? | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today |
| During | Port Project Review and Approval, Project-Specific Condition 3 | Air Quality | Are trucks adequately protected and covering transported materials? Are access points onto local roads clean and swept to keep visible soil material off? Are trucks idling less than 5 minutes? Is equipment in good condition and using low-sulfur diesel fuel? | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today | N/A - no material transported off site today |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|--|---|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Documentation | | | | | | | | | |
| Pre-, During | RAP, Appendix E (CRP), Section 4.5 | Community Relations | Are public notices (including project description and contact info) located at the fence line of the staging area? | N/A - staging area not set up yet | N/A - staging area not set up yet | N/A - staging area not set up yet | N/A - staging area not set up yet | N/A - staging area not set up yet | N/A - staging area not set up yet |
| Construction Methods | | | | | | | | | |
| During | USACE IP: Dredging Condition 16 | Disposal | Is the disposal barge NOT overflowing with water or dredge material? | Y | Y | N/A - no on-water work today |
| During | WDR - II (K) | Disposal | Is the sediment management area fully containing dredged sediment and water and equipped with impervious liners that are functioning? | N/A - SMA not set up yet |
| During | WDR - III (D) | Disposal | Is waste NOT being dumped or discharged into the water? | Y | Y | Y | Y | Y | Y |
| During | USACE IP: Dredging Condition 15 | Dredge Method | Is a hopper dredge NOT being used unless approved by USACE? | Y | Y | Y | Y | Y | Y |
| During | USACE IP: Dredging Condition 2 | Dredging authorization | Is dredging being limited to the pre-approved area and is total volume still under 71,700 cy? Are buoys NOT being placed or removed other than the eelgrass buoys? | Y | Y | Y | Y | Y | Y |
| Water Quality and Waste | | | | | | | | | |
| During | WDR - Section VIII, Provision G | Hazardous Substance Discharge (unplanned) | Are hazardous substances or sewage NOT being discharged, and notifications made per this permit condition if need be? | Y | Y | Y | Y | Y | Y |
| During | Port Project Review and Approval, Waterside Improvements Condition 1 | Hydrology and Water Quality | Are pier piles being completely removed and not cut and left on the bay floor? | N/A - no piles cut today |
| During | 4.3.1 - MMRP | Hazards and Hazardous Waste | Is all oil and fuel being housed in secondary containment? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.2 - MMRP | Hazards and Hazardous Waste | Has a DMP been prepared and is it being adhered to? Has training for personnel been completed? Is all equipment being inspected prior to the day's shift? Is instrumentation to prevent spillage of dredged material in working order? Are personnel monitoring for spills, and if happening, are spills being contained and reported immediately? | Y | Y | Y | Y | Y | Y |
| During | WDR - Section V, Provision B | Hydrology and Water Quality | Are there appropriate and sufficient spill kits available? | Y | Y | Y | Y | Y | Y |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|----------------------|-----------------------------|---|--|--|--|--|--|--|
| Pre- | 4.3.2 - MMRP | Hazards and Hazardous Waste | Have personnel been trained to locations of spill kits? Are adequate spill kits available? Are oil booms surrounding dredging activities along the entire length of the silt curtain? Are shallow areas on the haul route being avoided? Are loads being controlled to avoid sediment resuspension, and has a protocol been developed with the U.S. Navy to address any munitions or ordnance found? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.3 - MMRP | Hazards and Hazardous Waste | In event of equipment failure or repair, or silt curtain breach, are the following occurring: proper personnel communication, proper signage/barriers for unsafe conditions, repair work done over land not water, spill kits identified, a plan available for addressing spills, emergency procedures for silt curtain breach, incident reporting for silt curtain breaches, response procedures for barge overfill? If munitions or ordnance are encountered, has all work stopped and Site Safety Manager notified, and is Contingency Plan being implemented? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.6 - MMRP | Hazards and Hazardous Waste | Is the contractor following BMPs and SOPs during sediment unloading, transport, drying/dewatering, and disposal as laid out in Sediment Management Plan? | N/A - these activities not occurring today |
| During | 4.2.1 - MMRP | Hydrology and Water Quality | Are automatic systems being used to monitor dredging operations, turbidity, and water quality conditions, and do the water quality sensors have threshold alarms? | Y | Y | N/A - no on-water work today |
| During | 4.2.10 - MMRP | Hydrology and Water Quality | Does the containment area have berms restricting decanted or dewatered dredge water from releasing to the Bay or water table in case of a breach in the pad? If any areas are unpaved, and is there a liner being used? | N/A - SMA not set up yet |
| During | 4.2.11 - MMRP | Hydrology and Water Quality | If a containment liner is being used, is there a sand layer or K-rails/dry dock blocks being used as visual indicators of approaching the containment liner? | N/A - SMA not set up yet |
| Pre-, During | 4.2.12 - MMRP | Hydrology and Water Quality | If within 90 days after completion of dewatering, has a Notice of Termination been submitted to the Water Board? Has an Annual Report been submitted to SMARTS no later than Sept. 1 of the year of dewatering? | N/A - not complete dewatering |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|--|-----------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| During | 4.2.13 - MMRP | Hydrology and Water Quality | Has decanted water been tested prior to discharge to the sanitary sewer? If water exceeds discharge requirements, is it being taken offsite for treatment and disposal? | N/A - SMA not set up yet |
| During | 4.2.2 - MMRP | Hydrology and Water Quality | Is contractor implementing BMPs for resuspension and spillage of sediment during dredging, to minimize turbidity? (e.g., no stockpiling, double silt curtains) | Y | Y | N/A - no on-water work today |
| During | Port Project Review and Approval, Waterside Improvements Condition 2 | Hydrology and Water Quality | Is a surface-to-bottom silt curtain being used and being left in place until water is clear again? | Y | Y | N/A - no on-water work today |
| During | 4.2.2 - MMRP | Hydrology and Water Quality | Is clamshell bucket being entirely closed before movement to the barge, are closure switches being used? Is bucket NOT being overfilled? Are wide-pocket barges with watertight containment being used? Is barge NOT overfilled and marked to verify that? Are weirs NOT being used to dewater the barge, and are drop heights from bucket to barge sufficient such that splashing is not occurring into and around the barge? | Y | Y | N/A - no on-water work today |
| During | 4.2.2 - MMRP | | If a debris grate is being used, is material NOT piling up and flowing back into the water, and is debris being placed in a contained area for removal to dewatering area? Is barge movement and boat speeds low in the dredge area? | Y | Y | N/A - no on-water work today |
| During | 4.2.3 - MMRP and WDR Section VJ | Hydrology and Water Quality | Are double silt curtains being used of continuous length to fully encircle dredge and barge, and is the contractor keeping it in proper form? | Y | Y | N/A - no on-water work today |
| During | 4.2.4 - MMRP | Hydrology and Water Quality | Is water quality monitoring and reporting occurring? | Y | Y | N/A - no on-water work today |
| During | 4.2.5 - MMRP | Hydrology and Water Quality | Is a spill plate and filter fabric being used to prevent spillage from the barge into the water? | N/A - SMA not set up yet |
| During | 4.2.6 - MMRP | Hydrology and Water Quality | Is the clamshell bucket closed when removed from water and is it being entirely emptied into the barge? | Y | Y | N/A - no on-water work |
| During | 4.2.8 - MMRP | Hydrology and Water Quality | If clean sand cover are being placed, is silt curtain deployed? If initial layers of sand cover are being placed, is controlled placement being used? | N/A - sand cover not being placed |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|--|--|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Pre-, During | 4.2.9 - MMRP | Hydrology and Water Quality | Is oil and fuel in secondary containment? Has spill training occurred with contractor? Is equipment being inspected daily to identify faulty oil/fuel containing parts? Are oil/fuel spills being monitored? Is equipment being shut down in the event of the spill, and are spill kits available and adequate? Are oil booms deployed around the dredging activity? Is proper spill reporting occurring? | Y | Y | Y | Y | Y | Y |
| During | WDR - III (B) | Hydrology and Water Quality | Are earthen materials (sand silt, clay) NOT being discharged to the water? | Y | Y | Y | Y | Y | Y |
| During | WDR IV A thru K | Hydrology and Water Quality | Are floating particulates, grease, and oil NOT present? Is water NOT adversely colored? Is pH NOT elevated or depressed? Is turbidity NOT elevated? Is dissolved oxygen NOT depressed, all per this permit condition? | Y | Y | Y | Y | Y | Y |
| During | WDR - Section VIII, Provision H | Oil or Petroleum Product Discharge (unplanned) | Are oil or petroleum spills being reported per this permit condition, if occurring? | Y - but not occurring today |
| During | Port Project Review and Approval, Stormwater Condition 2 | Hydrology and Water Quality | Are BMPs being implemented to ensure pollutants are not being discharged to the storm drain and to the bay? | Y | Y | Y | Y | Y | Y |
| During | USACE IP; Special Condition 3 | Hydrology and Water Quality | Are NO creosoted piles being placed except for those that are for repair, wrapped in plastic, and protected? | N/A - no pile placement today |
| Pre- | 4.3.3 - MMRP | Hazards and Hazardous Waste | Has a Contingency Plan been developed, and is it being implemented? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.4 - MMRP | Hazards and Hazardous Waste | Has a HASP been developed and has training occurred for personnel? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.5 - MMRP | Hazards and Hazardous Waste | Has a Communication Plan been developed, including vessel speed limitations and air horn usage? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.7 - MMRP | Hazards and Hazardous Waste | Has a Hazardous Materials Transportation Plan been prepared and is it being implemented for sediment containment and emergency notification? | Y | Y | Y | Y | Y | Y |
| Pre- | 4.3.8 - MMRP | Hazards and Hazardous Waste | Has a Traffic Control Plan been prepared, and is it being implemented? | Y | Y | Y | Y | Y | Y |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|---|-------------------------|--|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------|--------------------------|
| Noise | | | | | | | | | |
| During | 4.4.1 - MMRP | Noise | Is all treatment and haul activity in San Diego occurring between 7 am and 7 pm and NOT on legal holidays (except Columbus Day and Washington's birthday) and Sundays? | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - SMA not set up yet | N/A - SMA not set up yet |
| During | 4.4.2 - MMRP | Noise | Is treatment and hauling in National City occurring between 7 am and 7 pm, and NOT on weekends or holidays per City code? | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - no treatment and hauling today | N/A - SMA not set up yet | N/A - SMA not set up yet |
| Cultural Resources | | | | | | | | | |
| During | USACE IP: Cultural Resources Condition 1 | Cultural Resources | If cultural resources have been observed, has work been stopped in that area and the proper USACE notifications made? | N/A - no cultural resources observed | N/A - no cultural resources observed | N/A - no cultural resources observed | N/A - no cultural resources observed | N/A - SMA not set up yet | N/A - SMA not set up yet |
| Retired¹ | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| During | Port Project Review and Approval, Traffic Control Condition 3 | Traffic and Circulation | Are all open trenches or other hazardous conditions marked with barricades, reflective paint, and flashers? | N/A - RETIRED. No such features current or planned on site. | N/A | N/A | N/A | N/A | N/A |
| During | CDP Short-Term Construction Measure 2 | Biological Resources | Is night lighting shielded and directed away from adjacent site areas? | N/A - RETIRED. Not working during night hours. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During-, and Post- | WDR VII C | Biological Resources | Has a survey been done for <i>Caulerpa taxifolia</i> and the appropriate notifications made? If <i>Caulerpa</i> is observed at any time, make notifications per this permit requirement. | Y - RETIRED. This survey has been completed and submitted to appropriate parties. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During, Post- | USACE IP; Special Condition 6 | Eelgrass Monitoring | Has a pre-construction survey been completed per the SCEMP and submitted to the USACE and NMFS within 30 days of completion? Is the subsequent EFH mitigation plan being implemented? | Y - RETIRED. This survey has been completed and submitted to appropriate parties. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.2 - MMRP | Air Quality | Is ridesharing and transit being encouraged among the construction crew? | Y - RETIRED. Contractor confirmed that ridesharing is being encouraged. | N/A | N/A | N/A | N/A | N/A |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|--|-----------------------------|--|--|-----------|-----------|-----------|-----------|-----------|
| Pre-, During | 4.6.4 - MMRP | Air Quality | Are all on site roads paved? | Y - RETIRED. All roads permanently paved. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.8 - MMRP | Air Quality | Is all diesel-powered construction equipment retrofitted with engine catalyts if available? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.10 - MMRP | Air Quality | Is alternative fuel construction equipment being used to the extent it is available and cost effective? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.13 - MMRP | Air Quality | Is construction relying on the electricity infrastructure rather than generators, to the extent feasible? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.14 - MMRP | Air Quality | Is all diesel-powered construction equipment equipped with ARB-verified oxidation catalyts and emission controls if appropriate to the type of equipment? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.6.9 - MMRP | Air Quality | Is all heavy-duty diesel equipment operating and refueling using low oxides of nitrogen diesel fuel if available and cost effective (not including trucks traveling to and from site)? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| During | CDP Short-Term Construction Measure 10 | Air Quality | Is electric equipment being used to extent feasible? | Y - RETIRED. All equipment is compliant and will be for duration of project. | N/A | N/A | N/A | N/A | N/A |
| During | USACE IP: Dredging Condition 7 | Availability of Permit Copy | Is a copy of the USACE IP permit available on dredging, storing, transporting, and disposing vessels? | Y - RETIRED. Permit copy availability confirmed. | N/A | N/A | N/A | N/A | N/A |

**Daily Construction Compliance Checklist
San Diego Shipyard Sediment Site - South Shipyard**

| Construction Phase (Pre-, During, or Post- Construction) | Regulatory Reference | Category | Permit Requirement Criteria | 9/30/2013 | 10/1/2013 | 10/2/2013 | 10/3/2013 | 10/4/2013 | 10/5/2013 |
|---|-------------------------------|-----------------------------|---|--|-----------|-----------|-----------|-----------|-----------|
| During | WDR - II (K) | Disposal | If stockpiled dredged material in the sediment management area is classified as hazardous waste, has DTSC been notified any additional controls implemented? | N/A - RETIRED. Material not characterized as hazardous waste. | N/A | N/A | N/A | N/A | N/A |
| During | 4.4.3 - MMRP | Noise | Is construction equipment equipped with working mufflers? Is stationary equipment being placed so that emitted noise is directed away from sensitive wildlife, and is staging located away from sensitive wildlife? | Y - RETIRED. Equipment is compliant and staged appropriately. | N/A | N/A | N/A | N/A | N/A |
| During | USACE IP; Special Condition 7 | Biological Resources | Have eelgrass surveys been completed and submitted, and has the eelgrass mitigation plan been followed? | Y - RETIRED. Survey completed and submitted and mitigation plan will be followed. | N/A | N/A | N/A | N/A | N/A |
| Pre-, During | 4.2.7 - MMRP | Hydrology and Water Quality | Has the Water Board approved the final engineering plans for the clean sand cover with specifications from this permit condition? | Y - RETIRED. Approved. | N/A | N/A | N/A | N/A | N/A |

Notes:

1 Measures that follow this heading are no longer monitored for the reason given on the date of retirement of the measure.