
Los Angeles Regional Water Quality Control Board

October 19, 2018

Ms. Heather A. Tomley
Director of Environmental Planning
Port of Long Beach
4801 Airport Plaza Drive
Long Beach, CA 90815

TENTATIVE WASTE DISCHARGE REQUIREMENTS (WDRs) FOR PORT OF LONG BEACH FIVE-YEAR MAINTENANCE DREDGING PROJECT (FILE NO. 92-11)

Dear Ms. Tomley,

We have completed our review of your application to this Board for waste discharge requirements (WDRs) for your proposed discharge of wastes. Enclosed are copies of tentative WDRs and a monitoring and reporting program for dredging and disposal of dredged material from Five-Year Maintenance Dredging, Port of Long Beach, Los Angeles County. A copy of our Standard Provisions, General Monitoring and Reporting Requirements (Attachment N) is also enclosed.

In accordance with administrative procedures, this Board at a public meeting to be held on **December 13, 2018, at 9:00 a.m.**, at the **City of Simi Valley Council Chambers, located at 2929 Tapo Canyon Road, Simi Valley, California**, will consider the enclosed tentative requirements and comments submitted in writing regarding any or all portions thereof. The Board will hear any testimony pertinent to these discharges and the tentative requirements. It is expected that the Board will take action at the hearing; however, as testimony indicates, the Board at its discretion may order further investigation. The agenda for the meeting will be posted on the Los Angeles Regional Water Control Board's website

(https://www.waterboards.ca.gov/losangeles/board_info/agenda/index.shtml)

approximately one week prior to the meeting.

Written comments or exhibits regarding this tentative Order must be received at the Regional Water Board office by **5:00 pm on November 19, 2018**. Failure to comply with this requirement provides grounds for the Regional Board to refuse to admit the proposed written comments or exhibit into evidence (Title 23 CCR Section 648.2). If materials are not submitted in a timely matter, the Regional Board may refuse to admit written testimony into evidence unless the proponent can demonstrate why he or she was unable to submit the material on time or that compliance with the deadline would otherwise create a hardship. If any other party demonstrates prejudice resulting from admission of written testimony or exhibits not timely submitted, the Regional Board may refuse to admit it.

If you have any questions regarding this proposed action, please contact me at (213) 576-6681 or via email at jun.zhu@waterboards.ca.gov.

Sincerely,



Jun J. Zhu, Ph.D.
Senior Environmental Scientist
Enclosures

Tentative Waste Discharge Requirements
Tentative Monitoring and Reporting Program
Attachment N – Standard Provisions

cc: Elizabeth Payne, Water Quality Certification Unit, SWRCB
David Coupe, Office of Chief Counsel, SWRCB
Larry Simon, California Coastal Commission
Theresa Stevens, U.S. Army Corps of Engineers
Szijj, Antal, U.S. Army Corps of Engineers
Allan Ota, U.S. Environmental Protection Agency
Melissa Scianni, U.S. Environmental Protection Agency
Carol Roberts, U.S. Fish and Wildlife Service
Bryan Chesney, National Marine Fisheries Service
William Paznokas, California Department of Fish and Wildlife
Annalisa Moe, Heal the Bay
James Vernon, Port of Long Beach
Janna Morimoto, Port of Long Beach

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

ORDER NO. R4-2018-xxxx

**RENEWAL OF WASTE DISCHARGE REQUIREMENTS
FOR
PORT OF LONG BEACH
(FIVE-YEAR MAINTENANCE DREDGING)
(FILE NO. 92-11)**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds:

1. The Port of Long Beach (POLB) filed an application for renewal of Waste Discharge Requirements (WDRs) contained in Regional Board Order No. R4-2013-0159, adopted on October 3, 2013, for maintenance dredging activities within the Long Beach Harbor (refer to Figures 1 and 2). Due to shoaling and sedimentation along wharves and channels in the harbor, dredging is necessary to restore the authorized design depths in order to maintain adequate water depths and safety for ships within the Long Beach Harbor District.
2. Order No. R4-2013-0159 authorized POLB to dredge up to 150,000 cubic yards (cy) of material per year for a maximum of 750,000 cy over a five-year time period in response to shoaling and sedimentation problems as necessary at various berths in the Inner Harbor, Middle Harbor, Southeast Basin and Outer Harbor. The dredged volume limits were retained for this Order. Since 2014, POLB dredged approximately 170,919 cy of sediment using two dredging methods, knockdown and mechanical/clamshell, from different locations within the port (Table 1).
3. Order No. R4-2013-0159 also authorized POLB to use a drag beam or similar equipment to level or “knock down” high spots in the vicinity of berthing areas. Within the port, there are often times where the prop wash from the large propellers of commercial vessels creates isolated high spots near the berths. These high spots usually consist of less than one to two feet of accumulated sediment, often very close to the edge of the wharf and can spread over a wide area, rendering the use of mechanical or hydraulic dredging equipment infeasible and/or unnecessarily costly. Small knockdown operations may reduce the need for and frequency of maintenance dredging, and may have fewer environmental impacts than traditional dredging (e.g. less turbidity produced by knockdowns, less disturbance to the benthic community). The following criteria and guidelines must be met to utilize drag beam or knockdown dredging: 1) limited to a maximum of 15,000 cy of material per year; 2) total volume for each event limited to a maximum of 2,000 cy; 3) cannot be performed in the same area more than once per

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October 19, 2018

year; 4) limited to the approved project boundary for the designated berth or channel as determined by the Los Angeles Region Contaminated Sediments Task Force and subject to written approval from the Executive Officer of the Los Angeles Regional Board; 5) sediment sampling (i.e., elutriate testing) will be performed prior to each project. In addition, POLB was authorized by Order No. R4-2013-0159 to dispose and reuse sediments within a constructed fill within the port (e.g., Middle Harbor Redevelopment Slip and Basin Fill, Pier G South Slip Fill) or at an approved upland disposal site and the Western Anchorage Sediment Storage Site (WASSS). This was an approved disposal site in Order No. R4-2013-0159. subject to Executive Officer approval (refer to Figure 3). The described below:

- Middle Harbor Redevelopment Slip and Basin Fill - The Middle Harbor Redevelopment Project involves the fill of the Pier E Slip No. 1 and a portion of the East Basin. Several rock containment dikes were constructed at the southern boundary of Slip No. 1 and a final containment dike will be constructed from Pier E Berth E24 to Pier F, Berth F10. The containment dikes are designed to effectively contain chemically contaminated materials and to control runoff of decant water from the settling of dredged material at the site. Any contaminated sediments placed at this site will be capped and sequestered by the placement of uncontaminated materials on top and a sand filter layer behind the containment dike in accordance with regulatory requirements and permits. Accordingly, disposal of dredged material at this disposal site is not expected to pose any significant environmental concerns.
- Pier G South Slip Fill - The fill site is located at the southern portion of the Pier G Slip. A rock containment dike will be designed and constructed to effectively contain chemically contaminated materials and to control runoff of decant water from the settling of dredged material at the site. Any contaminated sediments placed at this site will be capped and sequestered by the placement of uncontaminated materials on top and a sand filter behind the containment dike in accordance with regulatory requirements and permits. Accordingly, disposal of dredged material at this site is not expected to pose any significant environmental concerns.
- Port Upland Processing Area - Dredged material also may be placed upland on POLB property temporarily for sorting and drying of the material prior to disposal at an approved upland disposal facility. Port upland processing areas may include Pier S or various other upland sites throughout the port. All processing sites will be designed with proper best management practices designed to contain dredged materials on site. Dredged material would be placed within a retention berm for sorting and drying and a discharge weir would help to regulate the flow of decant water from the confined area. Once the material has been dried and sorted, scrap steel will be recycled and rock will be crushed into miscellaneous road base. Non-recyclable debris and sediment will be disposed of at a licensed upland landfill with its own WDRs and in accordance with federal

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The WASSS was already an approved disposal site under Order R4-2013-0159. This information can be moved to #3

and state regulations. Disposal at such an upland disposal facility subject to written approval from the Executive Officer of the Los Angeles Regional Board.

4. POLB has requested renewal of the WDRs with the following proposed changes to Order No. R4-2013-0159 by:

~~1) Adding the Western Anchorage Dredged Material Beneficial Reuse and Disposal Site/Western Anchorage Sediment Storage Site (WASSS). The WASSS is an aquatic site for sediments that are environmentally suitable for ocean dumping as prescribed by 40 CFR 227.13 and may later be reused as fill within the port~~

1)

2) Adding the LA-2 Ocean Dredged Material Disposal Site (ODMDS) (refer to Figure 4)

2)

3) adding maintenance repair and replacement to the existing structure, including:

- in-kind repair and maintenance of existing structures
- jetting associated with pile repair and replacement
- concrete grouting to repair existing structures

LA-2 is a United States Environmental Protection Agency (USEPA) approved disposal site for dredged material and is currently managed at a capacity of 1 million cy for the ocean disposal of dredged material in the Los Angeles County and Orange County regions. The site is located approximately 1.5 miles from the entrance to the Port of Los Angeles in federal waters.

Chris: If deleting 4-1, isn't this out of place? Move to 4th bullet under #3?

Currently, WASSS is for temporary or permanent storage of ocean suitable sediment. POLB is in the process of amending the Port Master Plan to re-designate WASSS as a confined aquatic disposal (CAD) site, which will be renamed as OHSPER and designed to contain both sediment suitable for aquatic placement and contaminated sediment unsuitable for unconfined aquatic placement. It is anticipated that this re-designation of the site through the Port Master Plan amendment process will be completed in 2020. At that time, the POLB will need to submit an amendment to the Report of Waste Discharge (ROWD) to seek approval to add it as a CAD site for this Order.

Routine maintenance activities are necessary for maintaining the existing, authorized structures within POLB. Routine maintenance of existing structures and facilities includes, but is not limited to:

- removal and recovery of debris/objects posing a navigational safety hazard to vessels
- routine wharf/dock maintenance work
- shoreline and in-water maintenance, repairs or like-for-like replacement of slope, dikes, breakwater and riprap
- repair, minor modification, and in-alignment replacement of docks, gangways, floats, piers, launch ramps, dolphins, mooring buoys, and anchor pilings

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- routine in-water maintenance, repair and replacement of pile wraps, jackets, and corrosion prevention system

These routine maintenance activities do not include capital development projects of new structures and facilities.

Jetting is a technique in which a carefully directed jet of water is used to increase the porewater pressure of sediment at the toe of the pile to reduce the sediment resistance and thus facilitate pile penetration. Jetting may be a very effective technique depending on the nature of the sediment and can reduce the amount of time a diesel pile driver or vibratory pile driver is required to install a pile. Decreasing the use of pile drivers will reduce the noise and vibration associated with construction. Use of jetting to replace or repair piles in the harbor would be assessed on a project-specific basis. Turbidity associated with jetting is typically localized to the vicinity of the work area and is temporary in nature. Most of the sediment disturbed during jetting would settle near the pile being replaced in a short time period. POLB would be required to implement the water quality monitoring program required in the Waste Discharge Requirements during pile jetting.

Concrete grouting may be required for repairs of the existing bulkheads, pile-supported structures, and rock slopes. Concrete would be applied as slurry through a pipe into a closed form or enclosed space and pumped from a land-based truck or from a barge on the water, depending on the availability of access at the repair site. POLB completed two maintenance and repair projects using concrete grouting at Pier F in 2015 and 2016. Water quality monitoring during the operations demonstrated no adverse impacts on the water quality.

5. The existing WDRs have provided an efficient permitting mechanism for maintenance dredging and routine structural maintenance activities with the port. As noted above, routine maintenance dredging would total up to 150,000 cy per year, including up to 15,000 cy for knockdown dredging per year, and no more than 750,000 cy in a 5-year period. For maintenance dredging, the disposal option will be dictated by the quality of the dredged material as indicated by a sediment characterization study and will be determined by the Southern California Dredged Material Management Team (SCDMMT), which includes (but is not limited to) the Regional Board, the California Coastal Commission, the USEPA and the United States Army Corps of Engineers (USACE). A sediment characterization study typically consists of sediment sample collection, grain size analysis, chemical analysis (including sediment chemistry, tissue chemistry and elutriate testing) and biological testing (including solid and suspended particulate phase ~~no~~ Chris: and/or bioaccumulation potential analysis) as outlined in regulatory guidance documents, such as *Evaluation of Dredged Material Proposed for Ocean Disposal*, also known as the “Green Book” (USEPA and USACE, 1991) and the *Inland Testing Manual* (USEPA and USACE, 1998). However, the requirements for

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Chris: consider changing to "... at an unconfined aquatic disposal site". Why biological testing for CAD site unless capping material?

specific analysis or testing are usually driven by the proposed disposal option. For example, biological testing is normally required when the dredged material is proposed to be disposed of at an ~~ocean disposal site, a temporary aquatic storage site, or a confined aquatic disposal (CAD) site.~~

Chris: Elutriate testing will be performed on a composite sample for each knockdown area

will conduct a pre-knockdown study prior to each knockdown dredging operation to assess the potential impacts of knockdown dredging on water quality. An SAP for each pre-knockdown study will be submitted to the SCDMMT for approval. For each knockdown study, POLB proposes to collect one sample per 500 linear feet of knockdown area along a wharf face and per 250 feet offshore. **Elutriate testing will be performed for each sample.** A Sampling and Analysis Report (SAR) for each pre-knockdown study will also be presented to and discussed at the SCDMMT monthly meetings, where the scope of the knockdown operation will be approved. No receiving water monitoring will be required during knockdown dredging since the limited magnitude of the activity is not expected to cause adverse water quality impacts.



APPLICABLE PLANS, POLICIES AND REGULATIONS

The following plans, policies and regulations apply to the discharges authorized by this Order to protect waters of the state.

6. Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan) - The Basin Plan: (i) designates beneficial uses for surface and groundwater, (ii) establishes narrative and numeric water quality objectives that must be attained or maintained to protect the designated beneficial uses, and (iii) sets forth implementation programs to protect the beneficial uses of the waters of the state. The Basin Plan also incorporates State Water Board Resolution 68-16, Anti-degradation Policy. In accordance with Water Code section 13263, this Order implements the plans, policies and provisions of the Regional Board's Basin Plan.

The designated beneficial uses of the Los Angeles-Long Beach inner harbor and marina waters are: industrial service supply, navigation, water contact recreation, non-contact water recreation, commercial and sport fishing, marine habitat, preservation of rare, threatened and endangered species, and shellfish harvesting (potential). The beneficial uses of the outer harbor waters are: navigation, water contact recreation, non-contact water recreation, commercial and sport fishing, marine habitat, preservation of rare, threatened and endangered species, and shellfish harvesting (potential use).

7. State Water Board Resolution No. 68-16 "Statement of Policy with Respect to Maintaining High Quality of Waters in California" (also called the "Anti-degradation Policy") requires the Regional Board, in regulating the discharge of waste, to maintain the high quality of waters of the state until it is demonstrated that any change in quality will be consistent with maximum benefit to the people of the State, will not unreasonably

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affect beneficial uses, and will not result in water quality less than that described in the State Water Board's policies (e.g., quality that exceeds water quality objectives). Further, any activity that produces waste must meet waste discharge requirements that will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest quality consistent with maximum benefit to the people of the State will be maintained.

8. Consistent with Resolution No. 68-16, this Order requires best practicable treatment or control of the discharge to ensure that pollution will not occur. With proper management of the dredging and disposal operations, the project is not expected to release significant levels of contaminants to the Harbor waters or other State waters nor adversely impact beneficial uses.
9. The POLB, as the lead agency carrying out the project, will be responsible for environmental review under, and documentation of its compliance with, the California Environmental Quality Act (CEQA), including notification to responsible agencies. The Regional Board is a responsible agency under CEQA and will participate in the environmental evaluation of each proposed maintenance project. Impacts on water quality will be evaluated during the required pre-dredge sediment and elutriate testing, and compliance with the Monitoring and Reporting Program contained within this Order will further ensure that no significant water quality impacts occur during dredging operations. The POLB issued a Revised Notice of Exemption (categorical exemption pursuant to CEQA Guidelines Sections 15301, Existing Facilities and 15304(g) Minor Alterations to Land) for the 5-year Maintenance Dredging Project on September 11, 2018, pursuant to Public Resources Code section 21000 et seq.
10. POLB has applied to the USACE for a renewal of five-year maintenance dredging permit, SPL-2013-00475-LM, with the same conditions contained within the existing permit. The USACE is expected to issue a final permit following the adoption of WDRs by the Los Angeles Regional Water Quality Control Board.

The Regional Board has notified POLB and interested agencies and persons of its intent to prescribe WDRs for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with California Water Code Section 13320 and California Code of Regulations, title 23, Sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state

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holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and the regulations that are applicable to the filing of petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

IT IS HEREBY ORDERED that the Port of Long Beach, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act as amended, and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Requirements

1. The removal and placement of dredged/excavated material shall be managed such that the concentrations of toxic pollutants in the water column, sediments or biota shall not adversely affect beneficial uses, in particular those identified in Finding number 7 above.
2. Enclosed bay and estuarine communities and populations, including vertebrate, invertebrate and plant species, shall not be degraded as a result of the discharge of waste.
3. The natural taste and odor of fish, shellfish or other enclosed bay and estuarine resources used for human consumption shall not be impaired as a result of the discharge of waste.
4. Toxic pollutants shall not be discharged at levels that will bioaccumulate in aquatic resources to levels which are harmful to human health.
5. There shall be no acute toxicity or chronic toxicity in ambient waters as a result of the discharge of waste.
6. POLB shall conduct the monitoring required and comply with the reporting requirements outlined in the attached Monitoring and Reporting Program, which is incorporated by reference as part of these Waste Discharge Requirements.
7. Dredging, excavation or disposal of dredge spoils shall not cause any of the following conditions in the receiving waters:
 - a. The formation of sludge banks or deposits of waste origin that would adversely affect the composition of the bottom fauna and flora, interfere with the fish propagation or deleteriously affect their habitat, or adversely change the physical or chemical nature of the bottom.
 - b. Turbidity that would cause substantial visible contrast with the natural appearance of the water outside the immediate area of operation.
 - c. Discoloration outside the immediate area of operation.

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- d. Visible material, including oil and grease, either floating on or suspended in the water or deposited on beaches, shores, or channel structures outside the immediate area of operation.
- e. Objectionable odors emanating from the water surface.
- f. Depression of dissolved oxygen concentrations below 5.0 mg/l at any time outside the immediate area of operation.
- g. Any condition of pollution or nuisance.

B. Provisions

1. The Waste Discharge Requirements specified above are valid only for dredging of a maximum volume of 150,000 cy of sediment per year, including up to 15,000 cy for knockdown dredging per year, and a maximum volume of 750,000 cy of sediment over a five-year period, and disposal of dredged material at Pier G South Slip, Middle Harbor Pier E Slip No.1 and portion of East Basin, Port Upland Processing Area, WASSS, and LA-2 ODMDS
2. POLB shall manage Pier G South Slip, Middle Harbor Pier E Slip No.1 and a portion of the East Basin, and the Port Upland Processing Area and WASSS to effectively contain chemically contaminated materials and to prevent migration of contaminants from the disposal sites into waters of the State.
3. Prior to disposal of dredged material at Pier G South Slip, Middle Harbor Redevelopment Slip and Basin Fill, the Port Upland Processing Area, or the WASSS, POLB shall conduct a sediment characterization study to evaluate the suitability of the proposed disposal option. A Sampling and Analysis Plan (SAP) for the sediment characterization study shall be submitted to the SCDMMT for approval. A Sampling and Analysis Report (SAR) for the sediment characterization study will also be presented to and discussed at the SCDMMT monthly meetings, where the proposed disposal option of the dredged material must be approved prior to the disposal of any dredged material. **For the Pier S Upland Processing Area disposal option, the SAR shall also include the proposed control methods and monitoring of the decant water back into the harbor.** POLB shall request and must obtain written approval from the Executive Officer prior to the disposal of any dredged material. A request for land disposal at a new site, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any dredging or disposal operations.
4. Prior to disposal of dredged material at the USEPA's LA-2 ODMDS, POLB shall conduct a sediment characterization study to evaluate the suitability of the proposed disposal option. An SAP for the sediment characterization

Recommend that the request to EO include proposed control methods at Pier S and not the SAR.

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study will be submitted to the SCDMMT for approval. An SAR for the sediment characterization study will also be presented to and discussed at the SCDMMT monthly meetings, where the proposed disposal option of the dredged material and must be approved prior to the disposal of any dredged material. A request for ocean disposal at this site, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any dredging or disposal operations. The supporting documentation shall include a SAR approved by SCDMMT, summarizing the results and findings from physical analysis, chemical analysis, and biological analysis (including toxicity testing and bioaccumulation potential analysis).

5. Prior to each knockdown dredging operation, POLB shall conduct a pre-knockdown study to assess the potential impacts of knockdown dredging on water quality. An SAP for each pre-knockdown study will be submitted to the SCDMMT for approval. For each pre-knockdown study, POLB will collect one sample per 500 linear feet of knockdown area along a wharf face and per 250 feet offshore. Elutriate testing will be performed for each sample. An SAR for each pre-knockdown study will also be presented to and discussed at the SCDMMT monthly meetings, where the scope of the knockdown operation and must be approved prior each knockdown operation. No receiving water monitoring will be required since the limited magnitude (less than 2000 cy) expected to cause adverse water quality impacts. POLB shall also request and must obtain written approval from the Executive Officer prior to each knockdown dredging operation. A request for knockdown operation, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any knockdown operations. The supporting documentation shall include a SAR, summarizing the results and findings from elutriate testing. on a composite sample for each knockdown area
6. POLB shall notify the Regional Board immediately by telephone of any adverse conditions in receiving waters or adjacent areas resulting from the removal of dredge materials; written confirmation by POLB to the Regional Board shall follow within one week. Would like to discuss requests and timelines.
7. A copy of this Order shall be made available at all times to project construction personnel.
8. POLB shall provide the following information to the Regional Board:
 - a. A copy of the final permit issued by the Department of the Army for the dredge and disposal operations.

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- b. The scheduled date of commencement of each dredging operation and an engineering plan and profile of the excavation and the disposal site at least two weeks prior to commencement.
 - c. Notice of termination of the operation, within one week following the termination date.
9. POLB shall submit, under penalty of perjury, technical reports to the Regional Board in accordance with specifications prepared by the Executive Officer.
10. In accordance with Water Code section 13260, subdivision (c), POLB shall file a report of any material change or proposed change in the character, location, or volume of the waste.
11. These waste discharge requirements do not exempt POLB from compliance with any other laws, regulations, or ordinances which may be applicable.
12. In accordance with Water Code section 13263, subdivision (g), these requirements shall not create a vested right to continue to discharge and are subject to rescission or modification. All discharges of waste into waters of the State are privileges, not rights.
13. This Order includes Attachment N: "Standard Provisions, General Monitoring and Reporting Requirements" ("Standard Provisions") and the attached Monitoring and Reporting Requirements, both of which are incorporated herein by reference. If there is any conflict between provisions stated hereinbefore and said "Standard Provisions", those provisions stated hereinbefore prevail. If there is any conflict between requirements stated in the attached Monitoring and Reporting Program and said "Standard Provisions", the former shall prevail.
14. This Order fulfills the requirements for a Clean Water Act Section 401 Water Quality Certification for the proposed project. Pursuant to California Code of Regulations, title 23, section 3860, the following three standard conditions shall apply to this project:
 - a. this certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13320 and pursuant to California Code of Regulations, title 23, section 3867.
 - b. this certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification

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application was filed pursuant to California Code of Regulations, title 23, section 3855, subdivision (b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought; this certification is conditioned upon total payment of any fee required pursuant to California Code of Regulations, division 3, chapter 28, and owed by the applicant.

15. This Order shall expire on December 31, 2023.
16. This Order terminates the requirements and provisions of Regional Board Order No. R4-2013-0159, except for enforcement purposes.

I, Deborah J. Smith, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on December 13, 2018.

DEBORAH J. SMITH
Executive Officer

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Table 1. Port of Long Beach Maintenance Dredging Projects (2014-2018).

Location	Dredge Completion Year	Volume Dredged (Cy)	Dredging Method
Pier G Berths G214-G215	2014	38	Knockdown
NRG Intake Structure Demolition	2014	1,068	Mechanical/Clamshell
Pier J Turning Basin ^a	2014	72,856	Mechanical/Clamshell
Pier G Berth G236 at Berth G242	2015	81	Knockdown
Pier F Berths F204-F205	2015	120	Knockdown
Pier T Berth T118 – T119	2015	120	Knockdown
Pier B Berths B77-B80	2015	274	Knockdown
West Basin Approach to Pier T-Phase 2	2015	599	Knockdown
Pier F Berth F208-F209	2015	758	Knockdown
Pier J Berth J266 WFM 0-250	2015	1,190	Knockdown
Pier J Berths J245-J247	2015	1,467	Knockdown
Pier J South Access Channel Clean-up	2015	8,403	Mechanical/Clamshell
Pier A Berths A88-A96 (to -49 FT. MLLW)	2016	805	Knockdown
Pier T Berth T-124	2016	1,184	Knockdown
Pier F Berths F206-F207	2016	2,089	Mechanical/Clamshell
Pier B Berths B82-B83	2016	6,643	Mechanical/Clamshell
Pier A Berths A88-A96 (to -50 FT. MLLW)	2016	13,882	Mechanical/Clamshell
Pier B Berths B84-B87	2016	17,312	Mechanical/Clamshell
Pier J South Berths J260-J264	2018	42,030	Mechanical/Clamshell
Total dredged volume (cy)		170,919	

a Northeast of access channel to buoy.

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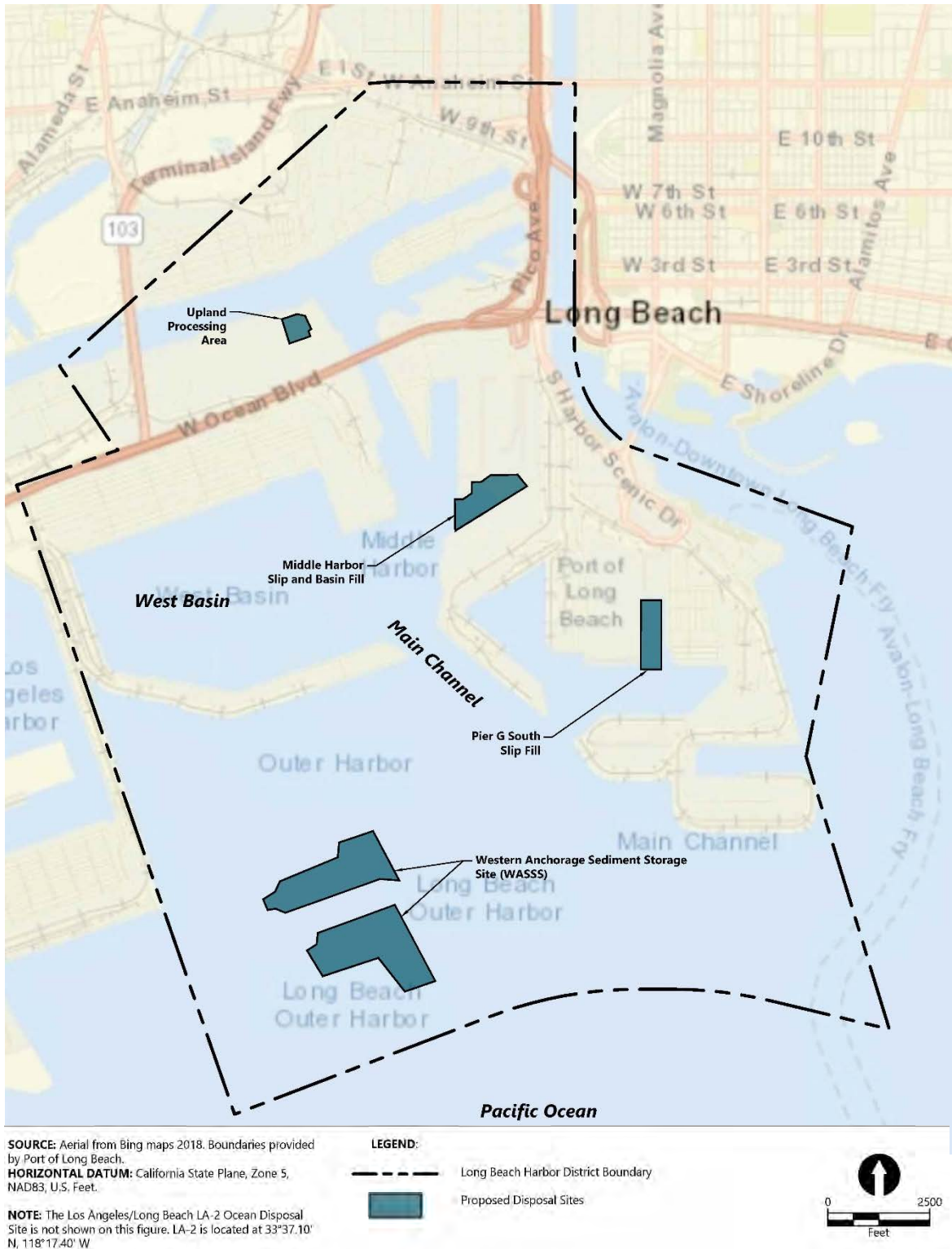


Figure 1. Location Map for Port of Long Beach.



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Figure 2. Potential Maintenance Dredging Areas Within the Port of Long Beach.



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Figure 3. Proposed Disposal Sites Within the Port of Long Beach.

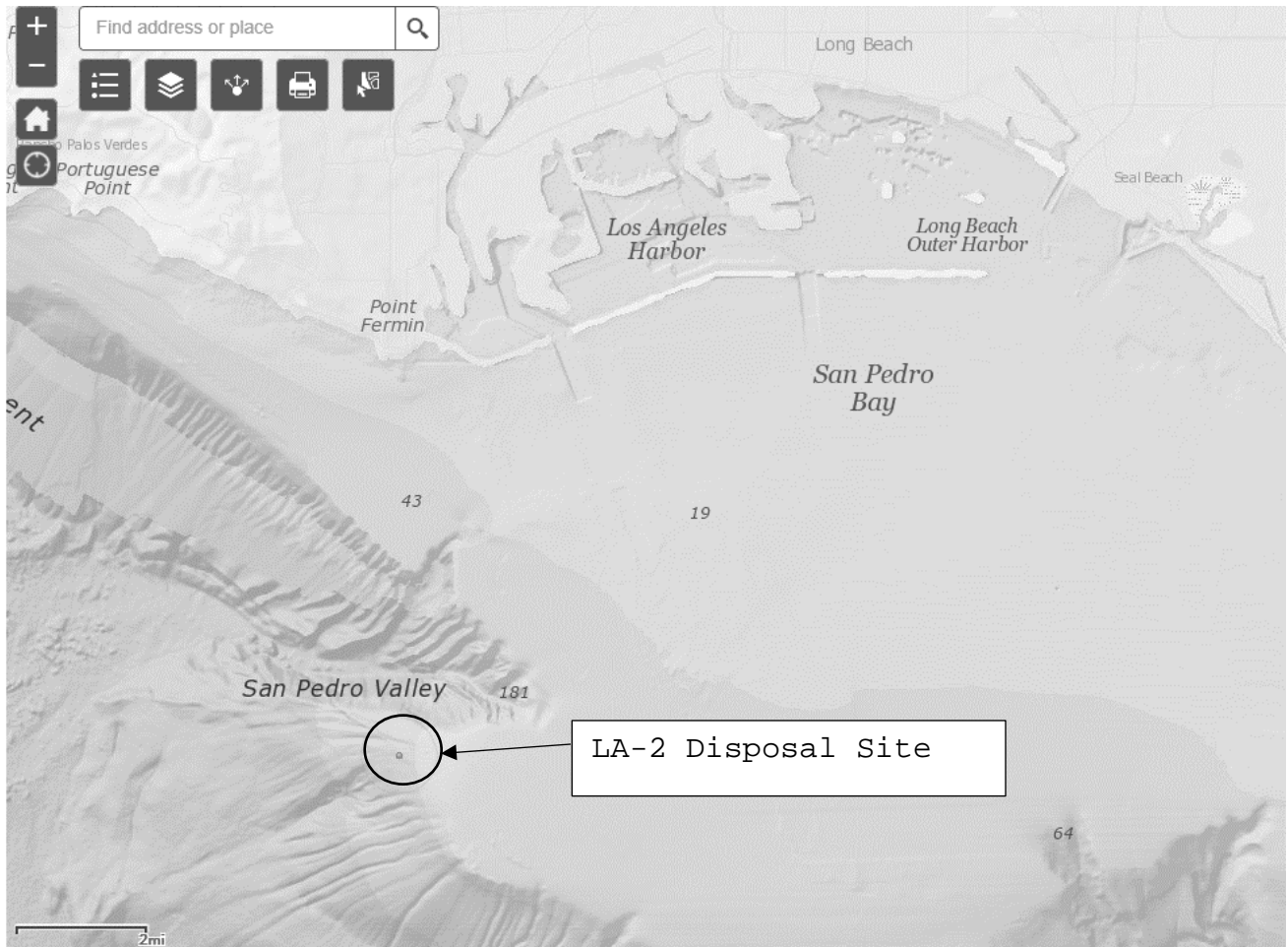


Figure 4. Proposed Disposal Site Outside the Port of Long Beach.

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STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. xxxx
FOR
PORT OF LONG BEACH
(FIVE-YEAR MAINTENANCE DREDGING)
(FILE NO. 92-11)

1. Receiving Water Monitoring

The following sampling protocol shall be undertaken by the Port of Long Beach (POLB) during the proposed dredging project. Sampling for the receiving water monitoring shall commence at least one week prior to the start of the dredging and fill operations and continue at least one week following the completion of all such operations. Sampling shall be conducted a minimum of once a week during dredging operations. Sampling shall be conducted down current of the dredge sites at least one hour after the start of dredging operations. All receiving water monitoring data shall be obtained via grab samples or remote electronic detection equipment.

Due to the configuration of certain confined areas in the port (e.g., slips and dead-end channels, corners of piers/wharfs within basins) and the fine-grained nature of dredged material in these locations, the POLB expects and has experienced prolonged suspension of dredge-mobilized particulates within confined areas. Light transmittance exceedances have been observed in the past under such conditions (only in the bottom-depth samples), but have been attributed to the configuration of the area and lack of tidal circulation, rather than due to dredging operation practices. Consequently, under these conditions, monitoring stations may be located at the desired approximate distance from the designated project area boundary (e.g., from the entrance of a slip or dead-end channel), rather than from the actual dredging activity.

Receiving water samples shall be taken at the following stations:

<u>Station</u>	<u>Description</u>
A	30.5 meters (100 feet) up current of the dredging operations, safety permitting or the designated project area boundary.
B	30.5 meters (100 feet) down current of the dredging operations, safety permitting or the designated project area boundary.
C	91.5 meters (300 feet) down current of the dredging operations or the designated project area boundary.
D	Control site (area not affected by dredging operations).

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The following shall constitute the receiving water monitoring program:

Water Column Monitoring

<u>Parameters</u>	<u>Units</u>	<u>Station</u>	<u>Frequency</u>
Dissolved oxygen ¹	mg/l	A-D	Weekly ²
Light transmittance ¹	% Transmittance	" "	"
pH ¹	pH units	" "	"
Suspended solids ³	mg/l	" "	"

¹Measurements shall be taken throughout the water column (at a minimum, at 2-meter increments).

²During the first two weeks of dredging, stations shall be sampled two times per week.

³Mid-depth shall be sampled.

Water column light transmittance values from Stations C and D shall be compared for the near surface (1 meter below the surface), for mid-water (averaged values throughout the water column, excluding the near surface and bottom) and for the bottom (1 meter above the bottom). If the difference in % light transmittance between stations C and D for the near surface or mid-water or bottom is 30% or greater, water samples shall be collected at mid-depth (or the depth at which the maximum turbidity occurs) and analyzed for trace metals, DDTs, PCBs and PAHs. At a minimum, one set of water samples shall be collected and analyzed for these chemical constituents during the maintenance dredging operation.

In the event that the water column light transmittance values from Stations C and D exceed the 30% trigger described above, POLB shall conduct the standard water quality monitoring described above for three consecutive days following the date of exceedance. POLB shall notify the Regional Board, the California Coastal Commission, the United States Environmental Protection Agency and the United States Army Corps of Engineers within 24 hours following observance of the transmissivity exceedance. POLB shall investigate whether the exceedance is due to obvious dredging operational problems and can be corrected easily and quickly. However, if the turbidity problem persists or recurs, the POLB shall look for other causes of the problem and evaluate whether additional, more aggressive best management practices are required to eliminate the exceedances; this evaluation shall be performed in consultation with the four regulatory agencies listed above.

Color photographs shall be taken at the time of sampling to record the presence and extent of visible effects of dredging operations. These photographs shall be submitted with the receiving water monitoring reports.

POLB shall provide Regional Board staff with a receiving water monitoring program field schedule at least one week prior to initiating the program. Regional Board staff shall be notified of any changes in the field schedule at least 48 hours in advance.

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2. Observations

The following receiving water observations shall be made and logged daily during dredging or excavating operations:

- a. Date and time;
- b. Direction and estimated speed of currents;
- c. General weather conditions and wind velocity;
- d. Tide stage;
- e. Appearance of trash, floatable material, grease, oil or oily slick, or other objectionable materials;
- f. Discoloration and/or turbidity;
- g. Odors;
- h. Depth of dredge operations during previous day;
- i. Amount of material dredged the previous day;
- j. Cumulative total amount of material dredged to date.

3. General Provisions

All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" promulgated by the United States Environmental Protection Agency.

All chemical analyses shall be conducted at a laboratory certified for such analysis by the State Department of Health Services, Environmental Laboratory Accreditation Program (ELAP), or approved by the Executive Officer.

POLB shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to insure accuracy of measurements or shall insure that both activities will be conducted by third parties under Port supervision.

A grab sample is defined as an individual sample collected in fewer than 15 minutes.

All samples shall be representative of the waste discharge under normal operating conditions.

4. Reporting

Monitoring reports shall be submitted within 10 days following each weekly sampling period. In reporting, POLB shall arrange the monitoring data in tabular form so that dates, time, parameters, test data, and observations are readily discernible. The data shall be summarized to demonstrate compliance with the waste discharge requirements. A final report, summarizing the results of the weekly monitoring and reporting the total volume discharged, shall be submitted within one month of completion of the project.

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Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.

Each monitoring report must affirm in writing that:

All analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current EPA guidelines or as specified in the Monitoring Program.

For any analysis performed for which no procedure is specified in the EPA guidelines or in the Monitoring Program, the constituent or parameter analyzed and the method or procedure used must be specified in the report.

5. General Provisions for Reporting

For every item where the requirements are not met, POLB shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Executed on the _____ day of _____, 20____,
at _____.

(Signature)

(Title)"

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Monitoring and Reporting Program No. xxxx
Port of Long Beach
Five-Year Maintenance Dredging

Order No. R4-2018-xxxx

These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by:

DEBORAH J. SMITH
Executive Officer

Date: December 13, 2018

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STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

STANDARD PROVISIONS, GENERAL MONITORING AND
REPORTING REQUIREMENTS

"ATTACHMENT N"

A. General Requirements

1. Neither the disposal nor any handling of wastes shall cause pollution or nuisance.
2. Wastes discharged shall not contain any substances in concentrations toxic to human, animal, plant, or aquatic life.
3. This discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Clean Water Act, and amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.
4. Wastes discharged shall not contain visible color, oil or grease, and shall not cause the appearance of color, grease, oil or oily slick, or persistent foam in the receiving waters or on channel banks, walls, inverters or other structures.
5. Wastes discharged shall not increase the natural turbidity of the receiving waters at the time of discharge.
6. Wastes discharged shall not cause the formation of sludge deposits.
7. Wastes discharged shall not damage flood control structures or facilities.
8. Oil or oily material, chemicals, refuse, or other pollutionable materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off of the property and/or discharged to surface waters. Any spill of such materials shall be contained and removed immediately.
9. The pH of wastes discharged shall at all times be within the range 6.0 to 9.0.
10. The temperature of wastes discharged shall not exceed 100° F.
11. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.

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12. Effluent limitations, national standards of performance and toxic and pretreatment effluent standards established pursuant to Sections 301, 302, 303(d), 304, 306, 307, 316, 318 and 405 of the Federal Clean Water Act and amendments thereto are applicable to the discharge.

B. General Provisions

1. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under federal, state, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
2. These requirements do not exempt the operator of the waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility, and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
3. The discharger must comply with all of the terms, requirements, and conditions of this order. Any violation of this order constitutes a violation of the Clean Water Act, its regulations and the California Water Code, and is grounds for enforcement action, Order termination, Order revocation and reissuance, denial of an application for reissuance; or a combination thereof.
4. A copy of these waste discharge specifications shall be maintained at the discharge facility so as to be available at all times to operating personnel.
5. Any discharge of wastes at any point(s) other than specifically described in this Order is prohibited, and constitutes a violation of the Order.
6. The Regional Board, EPA, and other authorized representatives shall be allowed:
 - a) Entry upon premises where a regulated facility is located or conducted, or where records are kept under conditions of this Order;
 - (b) Access to copy any records that are kept under the conditions of this Order;
 - (c) To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

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- (d) To photograph, sample, and monitor for the purpose of assuring compliance with this Order, or as otherwise authorized by the Clean Water Act and the California Water Code.
- 7. If the discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the discharger must apply for and obtain a new Order.
- 8. The discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. If a toxic effluent standard or prohibition is established for toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this Order, the Board will revise or modify this Order in accordance with such toxic effluent standard or prohibition and so notify the discharger.
- 9. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - (a) Violation of any term or condition contained in this Order;
 - (b) Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- 10. In the event the discharger is unable to comply with any of the conditions of this Order due to:
 - (a) breakdown of waste treatment equipment;
 - (b) accidents caused by human error or negligence; or
 - (c) other causes such as acts of nature,

the discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate

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- what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.
11. If there is any storage of hazardous or toxic materials or hydrocarbons at this facility and if the facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
 12. The discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.
 13. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control including sludge use and disposal facilities (and related appurtenances) that are installed or used by the discharger to achieve compliance with this Order. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar system that are installed by a discharger only when necessary to achieve compliance with the conditions of this Order.
 14. This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the discharger for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
 15. This Order does not convey any property rights of any sort, or any exclusive privilege.
 16. The discharger shall furnish, within a reasonable time, any information the Regional Board or EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
 17. All applications, reports, or information submitted to the Regional Board shall be signed:
 - (a) In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;
 - (b) In the case of a partnership, by a general partner;

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- (c) In the case of a sole proprietorship, by the proprietor;
- (d) In the case of municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

18. The discharger shall notify the Board of:

- (a) new introduction into such works of pollutants from a source which could be a new source as defined in section 306 of the Federal Clean Water Act, or amendments thereto, if such source were discharging pollutants to the waters of the United States;
- (b) new introductions of pollutants into such works from a source which would be subject to Section 301 of the Federal Clean Water Act, or amendments thereto, if substantial change in the volume or character of pollutants being introduced into such works by a source introducing pollutants into such works at the time the waste discharge requirements were adopted.

Notice shall include a description of the quantity and quality of pollutants and the impact of such change on the quantity and quality of effluent from such publicly owned treatment works. A substantial change in volume is considered an increase of ten percent in the mean dry-weather flow rate. The discharger shall forward a copy of such notice directly to the Regional Administrator.

19. The discharger shall notify the Board not later than 120 days in advance of implementation of any plans to alter production capacity of the product line of the manufacturing, producing or processing facility by more than ten percent. Such notification shall include estimates of proposed production rate, the type of process, and projected effects on effluent quality. Notification shall include submittal of a new report of waste discharge appropriate filing fee.

20. The discharger shall give advance notice to the Regional Board as soon as possible of any planned physical alterations or additions to the facility or of any planned changes in the facility or activity that may result in noncompliance with requirements.

21. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.

22. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Regional Board as soon as they know or have reason to believe:

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- (a) that any activity has occurred or will occur that would result in the discharge of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels:"
 - (i) One hundred micrograms per liter (100 µg/l);
 - (ii) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - (iv) The level established by the Regional Board in accordance with 40 CFR 122.44(f).
 - (b) that they have begun or expect to begin to use or manufacture intermediate or final product or byproduct of any toxic pollutant that was not reported on their application.
23. Bypass (the intentional diversion of waste streams from any portion of a treatment facility) is prohibited. The Regional Board may take enforcement action against the discharger for bypass unless:
- (a) Bypass was unavoidable to prevent loss of life, personal injury or severe property damage. (Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.);
 - (b) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated waste, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass that could occur during normal periods of equipment downtime or preventive maintenance; and
 - (c) The discharger submitted a notice at least ten days in advance of the need for a bypass to the Regional Board.

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The discharger may allow a bypass to occur that does not cause effluent limitations to be exceeded, but only if it is for essential maintenance to assure efficient operation. In such a case, the above bypass conditions are not applicable. The discharger shall submit notice of an unanticipated bypass as required in E-16.

24. A discharger that wishes to establish the affirmative defense of an upset in an action brought for non-compliance shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (a) an upset occurred and that the discharger can identify the cause(s) of the upset;
 - (b) the permitted facility was being properly operated by the time of the upset;
 - (c) the discharger submitted notice of the upset as required in E-16; and
 - (d) the discharger complied with any remedial measures required.

No determination made before an action for noncompliance, such as during administrative review of claims that non-compliance was caused by an upset, is final administrative action subject to judicial review.

In any enforcement proceeding, the discharger seeking to establish the occurrence of an upset has the burden of proof.

25. This Order is not transferable to any person except after notice to the Regional Board. In the event of any change in name, ownership, or control of these waste disposal facilities, the discharger shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, copy of which shall be forwarded to the Board. The Regional Board may require modification or revocation and reissuance of the Order to change the name of the discharger and incorporate such other requirements as may be necessary under the Clean Water Act.

C. Enforcement

1. The California Water Code provides that any person who violates a waste discharge requirement or a provision of the California Water Code is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation; or

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some combination thereof, depending on the violation, or upon the combination of violations.

Violation of any of the provisions of the NPDES program or of any of the provisions of this Order may subject the violator to any of the penalties described herein, or any combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.

2. The Federal Clean Water Act (CWA) provides that any person who violates a permit condition or any requirement imposed in a pretreatment program implementing sections 301, 302, 306, 307, 308, 318 or 405 of the CWA is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing these sections of the CWA is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. Any person who knowingly violates permit conditions implementing these sections of the CWA is subject to a fine of not less than \$5,000, or more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or by both.
3. It shall not be a defense for a discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order.
4. The Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document submitted or required to be maintained under this Order, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this act, shall upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years per violation, or by both.

D. Monitoring Requirements

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The discharger shall retain records of all monitoring information, including all calibration and maintenance monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the Report of Waste Discharge and application for this Order, for a period of at least five(5) years from the date of the sample, measurement, report, or application. This period may be extended by request of the Regional Board or EPA at any time and shall be extended during the course of any unresolved litigation regarding this discharge.

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3. Records of monitoring information shall include:
 - (a) The date, exact place, and time of sampling or measurements;
 - (b) The individual(s) who performed the sampling or measurements;
 - (c) The date(s) analyses were performed;
 - (d) The individual(s) who performed the analyses;
 - (e) The analytical techniques or methods used; and
 - (f) The results of such analyses.
4. All sampling, sample preservation, and analyses must be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified in this Order.
5. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by an appropriate governmental regulatory agency.
6. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and to insure accuracy of measurements, or shall insure that both equipment activities will be conducted.
7. The discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. The annual monitoring report required in E-8 shall also summarize the QA activities for the previous year. Duplicate chemical analyses must be conducted on a minimum of ten percent (10%) of the samples, or at least one sample per sampling period, whichever is greater. A similar frequency shall be maintained for analyzing spiked samples.

When requested by the Board or EPA, the discharger will participate in the NPDES discharge monitoring report QA performance study. The discharger must have a success rate equal to or greater than 80%.

8. Effluent samples shall be taken downstream of any addition to treatment works and prior to mixing with the receiving waters.
9. For parameters where both 30-day average and maximum limits are specified but

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where the monitoring frequency is less than four times a month, the following procedure shall apply:

- (a) Initially, not later than the first week of the second month after the adoption of this permit, a representative sample shall be obtained of each waste discharge at least once per week for at least four consecutive weeks and until compliance with the 30-day average limit has been demonstrated. Once compliance has been demonstrated, sampling and analyses shall revert to the frequency specified.
- (b) If future analyses of two successive samples yield results greater than 90% of the maximum limit for a parameter, the sampling frequency for that parameter shall be increased (within one week of receiving the laboratory result on the second sample) to a minimum of once weekly until at least four consecutive weekly samples have been obtained and compliance with the 30-day average limit has been demonstrated again and the discharger has set forth for the approval of the Executive Officer a program which ensures future compliance with the 30-day average limit.

E. Reporting Requirements

1. The discharger shall file with the Board technical reports on self monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Programs as directed by the Executive Officer.
2. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernable. The data shall be summarized to demonstrate compliance with waste discharge requirements and, where applicable, shall include results of receiving water observations.
3. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
4. The discharger shall submit to the Board, together with the first monitoring report required by this permit, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
5. The discharger shall file a technical report with this Board not later than 30 days after receipt of this Order, relative to the operation and maintenance program for this waste disposal facility. The information to be contained in that report shall

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include as a minimum, the following:

- (a) The name and address of the person or company responsible for operation and maintenance of the facility.
- (b) Type of maintenance (preventive or corrective).
- (c) Frequency of maintenance, if preventive.

If an operation and maintenance report has been supplied to the Board previously and there have been no changes, a second report need not be provided.

6. Monitoring results shall be reported at the intervals specified in the monitoring and Reporting Program.
 - (a) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (b) If the discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (c) Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this Order.
7. Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any compliance schedule of this Order shall be submitted no later than 14 days following, each schedule date.
8. By March 1 of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.
9. The discharger shall include in the annual report, an annual summary of the quantities of all chemicals, listed by both trade and chemical names, which are used for cooling and/or boiler water treatment and which are discharged.
10. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or

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approved by the Executive Officer and in accordance with current EPA guideline procedures or as specified in this Monitoring Program".

11. Each report shall contain the following completed declaration:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations.

Executed on the ___ day of _____, 19__,

at _____

_____ (Signature)

_____ (Title)"

12. If no flow occurred during the reporting period, the monitoring report shall so state.
13. For any analyses performed for which no procedure is specified in the EPA guidelines or in the monitoring and Reporting Program, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
14. This Board requires the discharger to file with the Board, within 90 days after the effective date of this Order, a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:
- (a) Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered.
 - (b) Evaluate the effectiveness of present facilities and procedures and state when they become operational.

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- (c) Describe facilities and procedures needed for effective preventive and contingency plans.
- (d) Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

This Board, after review of the technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events.

Such conditions may be incorporated as part of this Order, upon notice to the discharger.

15. In the event wastes are transported to a different disposal site during the report period, the following shall be reported in the monitoring report:

- (a) Types of wastes and quantity of each type;
- (b) Name and address for each hauler of wastes (or method of transport if other than by hauling); and
- (c) Location of the final point(s) of disposal for each type of waste.

If no wastes are transported offsite during the reporting period, a statement to that effect shall be submitted.

16. The discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information that must be reported within 24 hours under this paragraph:

- (a) Any unanticipated bypass that exceeds any effluent limitation in the Order.
- (b) Any upset that exceeds any effluent limitation in the Order.
- (c) Violation of a maximum daily discharge limitation for any of the pollutants

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listed in this Order to be reported within 24 hours.

The Regional Board may waive the above-required written report on a case-by-case basis.

17. Should the discharger discover that it failed to submit any relevant facts or that it submitted incorrect information in a report, it shall promptly submit the missing or correct information.
18. The discharger shall report all instances of non-compliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain all information listed in E-16.
19. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.
20. Analytical data reported as "less than" for the purpose of reporting compliance with permit limitations shall be the same or lower than the permit limit(s) established for the given parameter.
21. The discharger shall mail a copy of each monitoring report to:

INFORMATION TECHNOLOGY
CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD - LOS ANGELES REGION
320 W. 4TH STREET, SUITE 200
LOS ANGELES, CA 90013

A copy of such monitoring report for those discharges designated as a major discharge shall also be mailed to:

REGIONAL ADMINISTRATOR
ENVIRONMENTAL PROTECTION AGENCY
REGION 9
75 Hawthorne Street
San Francisco, CA 94105

F. Publicly Owned Wastewater Treatment Plant Requirements
(Does not apply to any other type or class of discharger)

1. Publicly owned treatment works (POTWs) must provide adequate notice to the

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Regional Board of:

- (a) Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants.
- (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the Order.

Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

- 2. The discharger shall file a written report with the Board within 90 days after the average dry-weather waste flow for any month equals or exceeds 75 percent of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administration officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:
 - (a) Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.
 - (b) The discharger's best estimate of when the average daily dry weather flow rate will equal or exceed the design capacity of his facilities.
 - (c) The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.
- 3. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.
- 4. The discharger shall require any industrial user of the treatment works to comply with applicable service charges and toxic pretreatment standards promulgated in accordance with Sections 204(b), 307, and 308 of the Federal Clean Water Act or amendments thereto. The discharger shall require each individual user to submit periodic notice (over intervals not to exceed nine months) of progress toward compliance with applicable toxic and pretreatment standards developed pursuant to the Federal Clean Water Act or amendments thereto. The discharger shall forward a copy of such notice to the Board and the Regional Administrator.

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5. Collected screening, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal and in accordance with the provisions of Section 405(d) of the Federal Clean Water Act and Division 7 of the California Water Code. For the purpose of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a Regional Water Quality Control Board and which is in full compliance therewith.
6. Supervisors and operators of publicly owned wastewater treatment plants shall possess a certificate of appropriate grade in accordance with regulations adopted by the State Water Resources Control Board.

The annual report required by E-8 shall address operator certification and provide a list of current operating personnel and their grade of certification. The report shall include the date of each facility's Operation and Maintenance Manual, the date the manual was last reviewed, and whether the manual is complete and valid for the current facilities. The report shall restate, for the record, the laboratories used by the discharger to monitor compliance with this order and permit and provide a summary of performance.

G. Definitions

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility whose operation is necessary to maintain compliance with the terms and conditions of this Order.
2. "Composite sample" means, for flow rate measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of discharge, whichever is shorter.

"Composite sample" means, for other than flow rate measurement,

- (a) A combination of at least eight individual portions obtained at equal time intervals for 24 hours, or the duration of the discharge, whichever is shorter. The volume of each individual portion shall be directly proportional to the discharge flow rate at the time of sampling;

OR

- (b) A combination of at least eight individual portions of equal volume obtained over a 24-hour period. The time interval will vary such that the volume of wastewater discharged between samplings remains constant.

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The compositing period shall equal the specified sampling period, or 24 hours, if no period is specified.

3. "Daily discharge" means:
- (a) For flow rate measurements, the average flow rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.
 - (b) For pollutant measurements, the concentration or mass emission rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.

4. The "daily discharge rate" shall be obtained from the following calculation for any calendar day:

$$\text{Daily discharge rate} = \frac{8.34 \sum (Q_i)(C_i)}{N}$$

in which N is the number of samples analyzed in any calendar day, Q_i and C_i are the rate (MGD) and the constituent concentration (mg/l) respectively, which are associated with each of the N grab samples which may be taken in any calendar day. If a composite sample is taken, C_i is the concentration measured in the composite sample and Q_i is the average flow rate occurring during the period over which samples are composited.

5. "Daily maximum" limit means the maximum acceptable "daily discharge" for pollutant measurements. Unless otherwise specified, the results to be compared to the "daily maximum" limit are based on composite samples."
6. "Duly authorized representative" is one whose:
- (a) Authorization is made in writing by a principal executive officer or ranking elected official;
 - (b) Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company: (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

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- (c) Written authorization is submitted to the Regional Board and EPA Region 9. If an authorization becomes no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements above must be submitted to the Regional Board and EPA Region 9 prior to or together with any reports, information, or applications to be signed by an authorized representative.
7. "Grab sample" is defined as any individual sample collected in a short period of time not exceeding 15 minutes. "Grab samples" shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with "daily maximum" limits and the "instantaneous maximum" limits.
 8. "Hazardous substance" means any substance designated under 40 CFR 116 pursuant to Section 311 of the Clean Water Act.
 9. "Heavy metals" are for purposes of this Order, arsenic, cadmium, chromium, copper, lead, mercury, silver, nickel, and zinc.
 10. "Instantaneous maximum" concentration is defined as the maximum value measured from any single "grab sample."
 11. "Median" of an ordered set of values is the value which the values above and below is an equal number of values, or which is the arithmetic mean of the two middle values, if there is no one middle value.
 12. "Priority pollutants" are those constituents referred to in 40 CFR 401.15 and listed in the EPA NPDES Application Form 2C, pp. V-3 through V-9.
 13. "6-month median" means a moving "median" of daily values for any 180-day period in which daily values represent flow-weighted average concentrations within a 24-hour period. For intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred.
 14. "7-day" and "30-day average" shall be the arithmetic average of the values of daily discharge calculated using the results of analyses of all samples collected during any 7 and 30 consecutive calendar day periods, respectively.
 15. "Toxic pollutant" means any pollutant listed as toxic under section 307(a)(1) of the Clean Water Act or under 40 CFR 122, Appendix D.

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16. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with effluent limitations because of factors beyond the reasonable control of the discharger. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper action.

Pier J South Access Channel Maintenance Dredging Project

Pier S Temporary Sediment Storage Site Best Management Practices Plan



The Port of Long Beach intends to temporarily store dredge spoils from the project (~ 15,200 cubic yards) within the confines of the Port's Pier S Upland Processing Area (see attached vicinity map on sheet 1 of 5) until Phase 3 of the Middle Harbor Project is ready to accept fill material in early 2016. Attached below are drawings (sheets 1 through 5) representing the Port's plans for dredging at the Pier J South Access Channel. The figure on Sheet 5 represents the site plans and associated best management practices (BMPs) for the Port's sediment processing site at Pier S. Port staff anticipates unusually heavy rain events associated with El Nino in the coming wet weather season; as such, additional BMPs have been added to adequately contain the material. These plans have been provided to the Port's contractor, Lovco Construction Inc., who will construct and maintain site BMPs under the supervision of POLB Construction Inspectors and Engineers. Included below is a current aerial image of the site (photo 1) as well as photographs of the stormwater riser and associated BMPs at the discharge point (photos 2 and 3).

The primary BMP of the Pier S processing area is the topography which drains to the eastern edge of the site. Per the Construction Notes found on sheet 5 of the drawings, the material will be contained by a k-rail wall (see diagram on sheet 5) which will be wrapped in visqueen. However, any decanted water from the dredge spoils or stormwater will flow with gravity to the center of the depression and to the east away from the k-rail containment barrier. The water will then flow through three rows of gravel bag berms constructed per the California Stormwater Handbook standard to slow drainage and cause ponding which will allow sediments to precipitate out of the stormwater. The water will then enter an unpaved vegetated area with gravel and rock, which will treat the water further (see photo 2). Once this treated water reaches the vegetated area, it will pond once again at a riser allowing for any remaining sediment to be removed. Once the ponding reaches the riser elevation, it will begin to drain through the holes in the riser which has been wrapped in a filter fabric designed to filter sediment (see photo 3).

The Port's construction inspectors will be monitoring the area throughout the project and, per the Construction Notes section found on sheet 5 below, will direct the contractor to upgrade the BMPs if there are any potential or observed impacts.

Photo 1 – Aerial Image of the Temporary Storage Site on Pier S

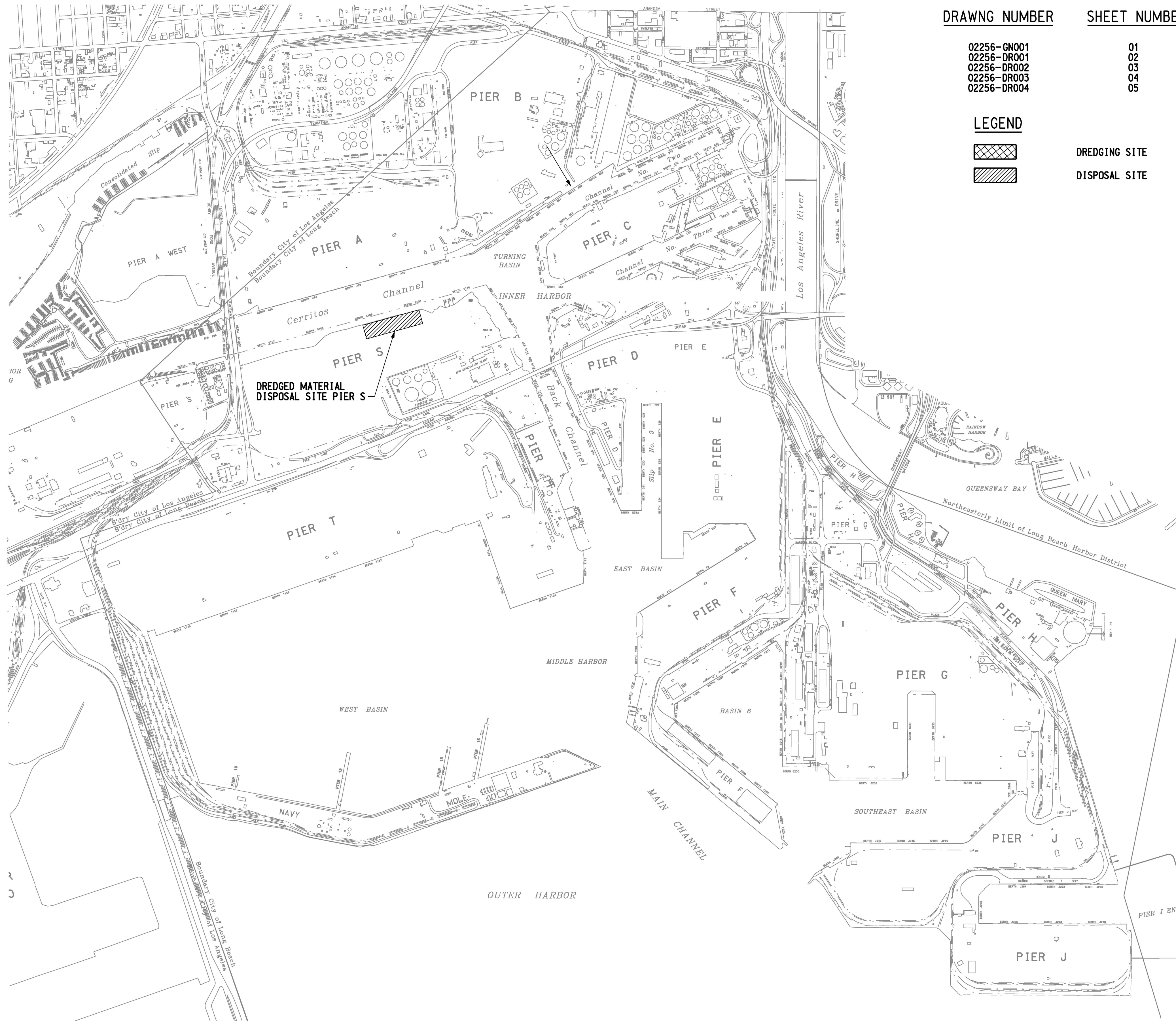


Photo 2 – Unpaved and Vegetated Area



Photo 3 – Riser Wrapped in Filter Fabric



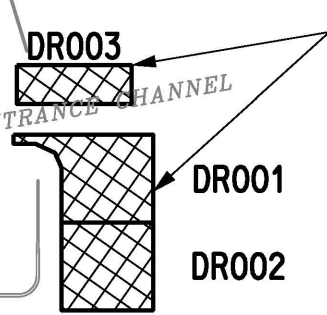
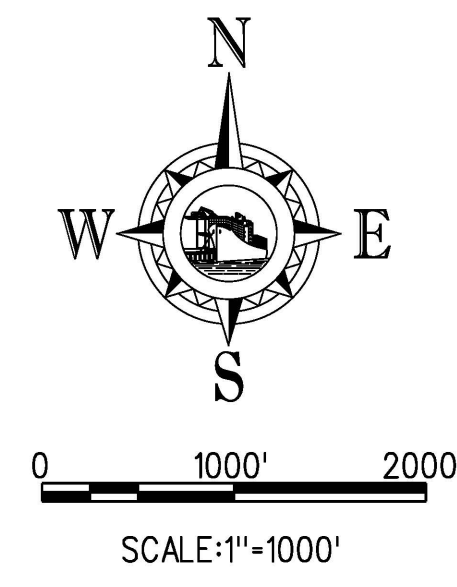


DRAWING NUMBER	SHEET NUMBER	SHEET TITLE
02256-GN001	01	PROJECT LOCATIONS & SHEET INDEX
02256-DR001	02	DREDGING SITE PLAN
02256-DR002	03	DREDGING SITE PLAN
02256-DR003	04	DREDGING SITE PLAN
02256-DR004	05	DREDGED MATERIAL DISPOSAL SITE (PIER S)

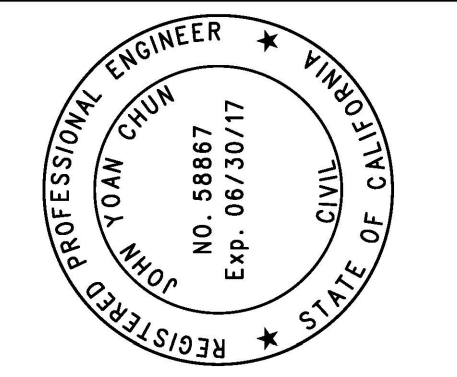
LEGEND

 DREDGING SITE

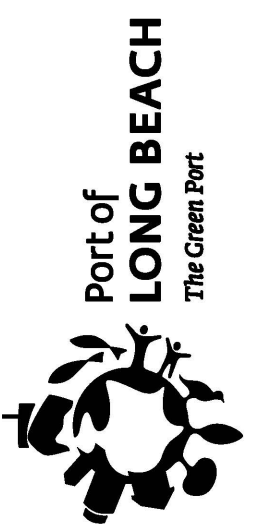
 DISPOSAL SITE



MARK	DATE	BY	REVISION DESCRIPTION



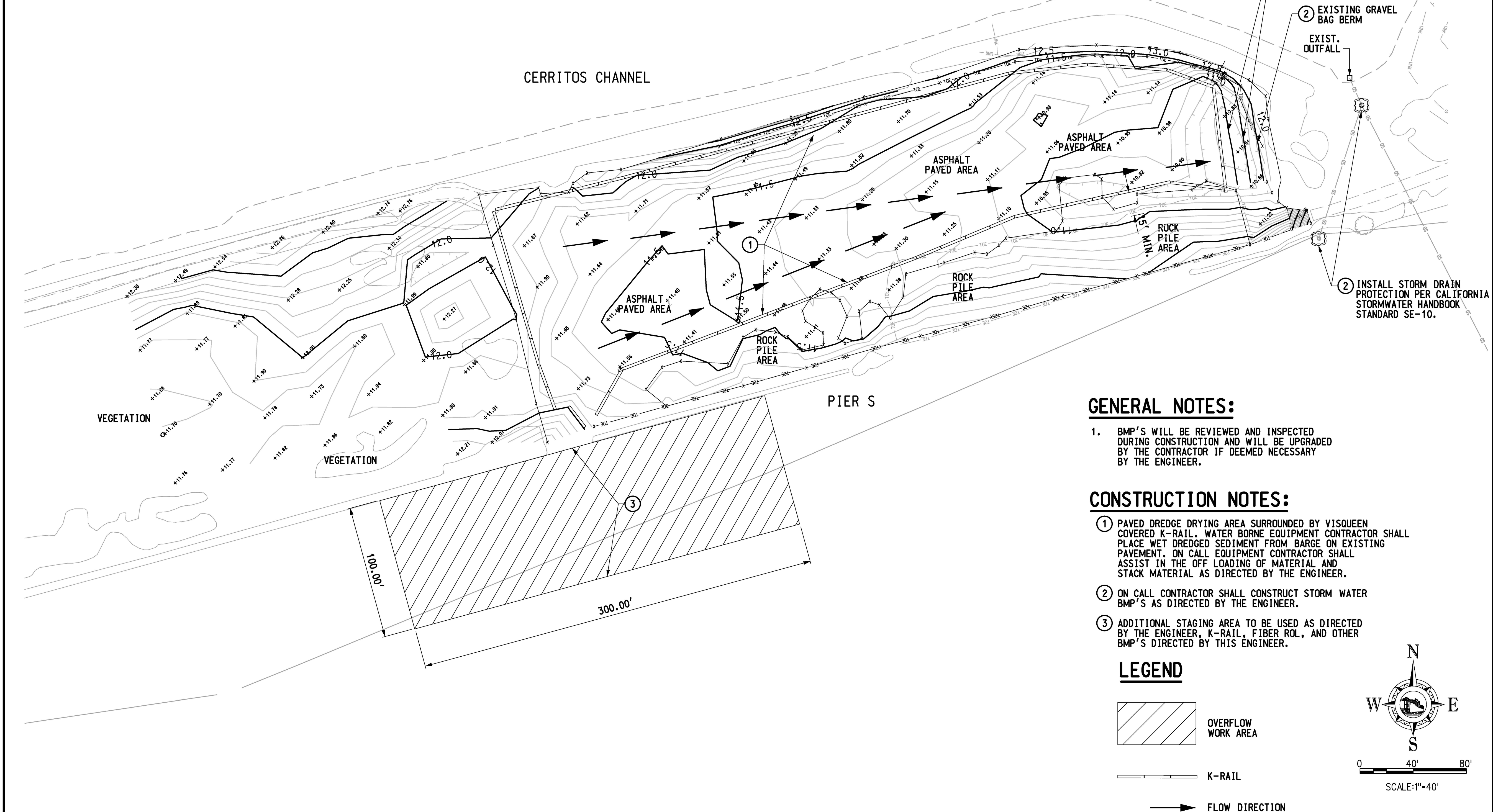
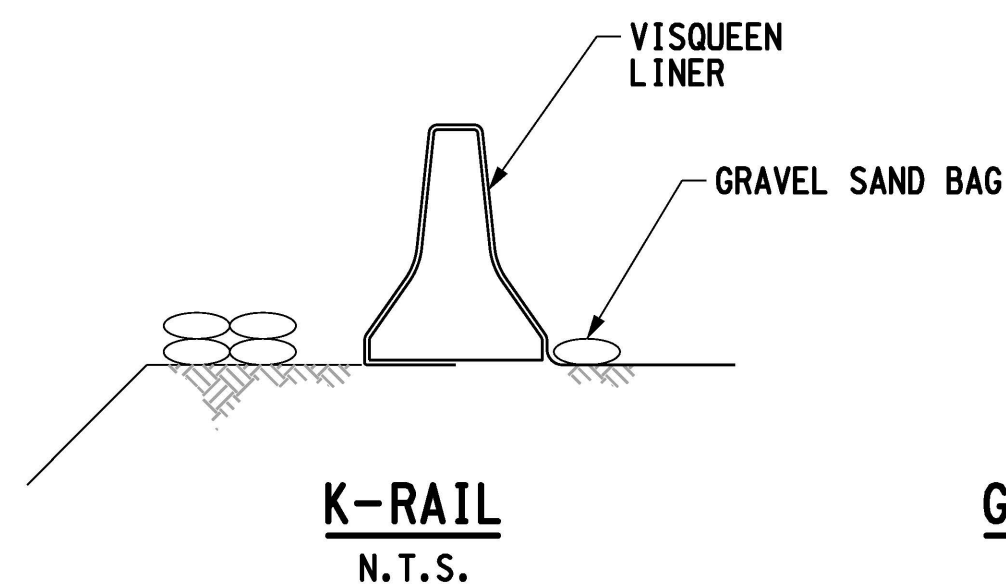
JOHN YAN CHIN, P.E., NO. C-58867
 DIRECTOR OF ENGINEERING DESIGN & MAINTENANCE



SPEC. NO.	CONSTRUCTION REV.	DATE:
CADD STD. VER: 1.4	CHECKED BY: AV/JJM	DATE: 11/17/2015
DWG. SCALE: 1"=1000'	DRAWN BY: RAL	DATE: 11/17/2015
EPOCH: 2007.0	DESIGNED BY: AV	PROJECT MGR.: JJM
HORIZONTAL CONTROL: MAD83		VERTICAL CONTROL: NGVD 29 MLLW

MAINTENANCE (CLAM SHELL) DREDGING PHASE 2
 PIER J, SOUTH ACCESS
 PROJECT LOCATIONS & SHEET INDEX

02256-GN001
 SHEET 01 OF 05



- ② INSTALL TWO GRAVEL BAG BERMS 10' ON CENTER PER CALIFORNIA STORMWATER HANDBOOK STANDARD SE-6 L=100' MIN.
- ② EXISTING GRAVEL BAG BERM
- EXIST. OUTFALL
- ② INSTALL STORM DRAIN PROTECTION PER CALIFORNIA STORMWATER HANDBOOK STANDARD SE-10.

GENERAL NOTES:

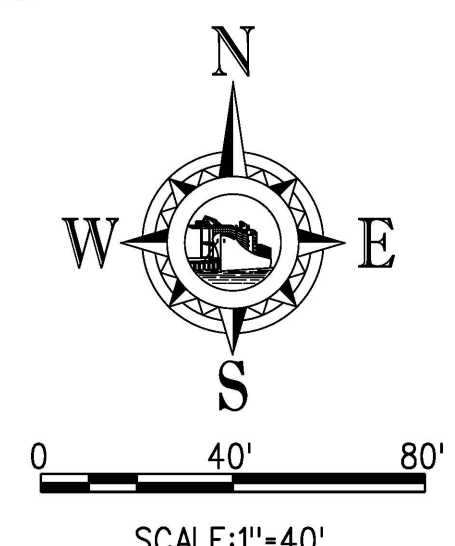
1. BMP'S WILL BE REVIEWED AND INSPECTED DURING CONSTRUCTION AND WILL BE UPGRADED BY THE CONTRACTOR IF DEEMED NECESSARY BY THE ENGINEER.

CONSTRUCTION NOTES:

- ① PAVED DREDGE DRYING AREA SURROUNDED BY VISQUEEN COVERED K-RAIL. WATER BORNE EQUIPMENT CONTRACTOR SHALL PLACE WET DREDGED SEDIMENT FROM BARGE ON EXISTING PAVEMENT. ON CALL EQUIPMENT CONTRACTOR SHALL ASSIST IN THE OFF LOADING OF MATERIAL AND STACK MATERIAL AS DIRECTED BY THE ENGINEER.
- ② ON CALL CONTRACTOR SHALL CONSTRUCT STORM WATER BMP'S AS DIRECTED BY THE ENGINEER.
- ③ ADDITIONAL STAGING AREA TO BE USED AS DIRECTED BY THE ENGINEER, K-RAIL, FIBER ROL, AND OTHER BMP'S DIRECTED BY THIS ENGINEER.

LEGEND

- OVERFLOW WORK AREA
- K-RAIL
- FLOW DIRECTION



<p>REGISTERED PROFESSIONAL ENGINEER JOHN YAN CHUN NO. 58867 Exp. 06/30/17 STATE OF CALIFORNIA CIVIL</p>	<p>PORT OF LONG BEACH The Green Port</p>
<p>DATE: 11/17/2015 CONSTRUCTION REV: AV/JJM CHECKED BY: AV/JJM CADD STD. VER: 1.4</p>	<p>DATE: 11/17/2015 DRAWN BY: RAL DWG. SCALE: 1"=40'</p>
<p>DATE: 11/17/2015 DESIGNED BY: AV EPOCH: 2007.0</p>	<p>DATE: 11/17/2015 PROJECT MGR.: JJM</p>
<p>HORIZONTAL CONTROL: MAD83</p>	<p>VERTICAL CONTROL: NGVD 29 MLLW</p>
<p>PIER J, SOUTH ACCESS MAINTENANCE (CLAM SHELL) DREDGING PHASE 2 DREDGED MATERIAL DISPOSAL SITE (PIER S)</p>	
<p>02256-DR004 SHEET 05 OF 05</p>	