CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

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ORDER R4-2016-XXXX
NPDES NO. CA0052949

WASTE DISCHARGE REQUIREMENTS FOR THE PLAINS WEST COAST TERMINALS, LLC DOMINGUEZ HILLS TANK FARM

The following Discharger is subject to waste discharge requirements (WDR's) set forth in this Order:

Table 1. Discharger Information

Discharger	Plains West Coast Terminals, LLC
Name of Facility	Dominguez Hills Tank Farm
Facility Address	2500 E. Victoria Street
	Compton, California 90220
	Los Angeles County

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Pipeline and tank hydro-test water, storm water	33º 51' 44" N	-118º 13' 21" W	Compton Creek to Los Angeles River

Table 3. Administrative Information

This Order was adopted on:	April 14, 2016
This Order shall become effective on:	June 1, 2016
This Order shall expire on:	May 31, 2021
The Discharger shall file a Report of Waste Discharge as an application for reissuance of WDR's in accordance with title 23, California Code of Regulations, and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than:	180 days prior to the Order expiration date
The U.S. Environmental Protection Agency (U.S. EPA) and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Minor

I, Samuel Unger, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on the date indicated above.

_____
Samuel Unger, P.E., Executive Officer

CONTENTS

I. Facility Information 3
II. Findings 3
III. Discharge Prohibitions 3
IV. Effluent Limitations and Discharge Specifications 4
A. Effluent Limitations 4
1. Final Effluent Limitations – Discharge Point 001 4
V. Recycling Specifications – Not Applicable 6
VI. Receiving Water Limitations 6
A. Surface Water Limitations 6
B. Groundwater Limitations – Not Applicable 7
VII. Provisions 7
A. Standard Provisions 7
B. Monitoring and Reporting Program (MRP) Requirements 10
C. Special Provisions 10
1. Reopener Provisions 10
2. Special Studies, Technical Reports and Additional Monitoring Requirements 11
3. Best Management Practices and Pollution Prevention 12
4. Construction, Operation and Maintenance Specifications 13
5. Other Special Provisions – Not Applicable 13
6. Compliance Schedules – Not Applicable 13
VIII. Compliance Determination 13

TABLES

Table 1. Discharger Information 1
Table 2. Discharge Location 1
Table 3. Administrative Information 1
Table 4. Effluent Limitations at Discharge Point 001 4

ATTACHMENTS

Attachment A – Definitions A-1
Attachment B – Maps B-1
Attachment C – Flow Schematic C-1
Attachment D – Standard Provisions D-1
Attachment E – Monitoring and Reporting Program E-1
Attachment F – Fact Sheet F-1
Attachment G – Storm Water Pollution Prevention Plan Requirements G-1
Attachment H – State Water Board Minimum Levels H-1
Attachment I – List of Priority Pollutants I-1
Attachment J – Summary Of Effluent Limitation Calculations J-1

I. FACILITY INFORMATION

Information describing the Plains West Coast Terminals, LLC, Dominguez Hills Tank Farm (Facility) is summarized in Table 1 and in sections I and II of the Fact Sheet (Attachment F). Section I of the Fact Sheet also includes information regarding the Facility's permit application.

II. FINDINGS

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

A. Legal Authorities. This Order serves as WDR's pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this facility to surface waters.

B. Background and Rationale for Requirements. The Los Angeles Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and rationale for the requirements in this Order, is hereby incorporated into and constitutes Findings for this Order. Attachments A through E and G through J are also incorporated into this Order.

C. Notification of Interested Parties. The Los Angeles Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe WDR's for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of the notification are provided in the Fact Sheet.

D. Consideration of Public Comment. The Los Angeles Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED that Order R4-2010-0160 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the CWA and regulations and guidelines adopted thereunder, the Discharger is authorized to discharge from the identified facility and outfall into waters of the United States and shall comply with the requirements in this Order. This action in no way prevents the Los Angeles Water Board from taking enforcement action for past violations of the previous Order.

III. DISCHARGE PROHIBITIONS

A. Wastes discharged at Discharge Point 001 shall each be limited to a maximum of 0.91 MGD of treated storm water, and hydrostatic test water at Discharge Point 001, as described in the Fact Sheet (Attachment F). The discharge of wastes from accidental spills or other sources is prohibited.

B. Discharges of water, materials, thermal wastes, elevated temperature wastes, toxic wastes, deleterious substances, or wastes other than those authorized by this Order, to a storm drain system, Compton Creek, or other waters of the state, are prohibited.

C. Neither the treatment nor the discharge of pollutants shall create pollution, contamination, or a nuisance as defined by section 13050 of the Water Code.

D. Wastes discharged shall not contain any substances in concentrations toxic to human, animal, plant, or aquatic life.

E. The discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Los Angeles Water Board or the State Water Resources Control Board (State Water Board) as required by the federal CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the federal CWA, and amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

F. The discharge of any radiological, chemical, or biological warfare agent into the waters of the state is prohibited under Water Code section 13375.

G. Any discharge of wastes at any point(s) other than specifically described in this Order is prohibited, and constitutes a violation of the Order.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations

1. Final Effluent Limitations – Discharge Point 001

a. The Discharger shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location EFF-001, as described in the attached MRP (Attachment E):

Table 4. Effluent Limitations at Discharge Point 001

Parameter	Units	Effluent Limitations			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (5-day; 20 deg. C; BOD_5)	mg/L	20	30	--	--
	lbs/day[1]	152	228	--	--
Oil and Grease	mg/L	10	15	--	--
	lbs/day[1]	76	114	--	--
pH	standard units	--	--	6.5	8.5
TSS	mg/L	50	75	--	--
	lbs/day[1]	379	569	--	--
Chronic Toxicity	Pass or Fail for TST approach	[2]			
Ammonia Nitrogen, Total (as N)	mg/L	1.8	4	--	--
	lbs/day[1]	13	30	--	--
Chloride	mg/L	--	150	--	--
	lbs/day[1]	--	1,138	--	--
Nitrate-nitrogen (as N)	mg/L	8	--	--	--
	lbs/day[1]	61	--	--	--
Nitrite-nitrogen (as N)	mg/L	1	--	--	--
	lbs/day[1]	7.6	--	--	--
Nitrate-nitrogen + Nitrite-nitrogen (as N)	mg/L	8	--	--	--
	lbs/day[1]	61	--	--	--
Phenols	mg/L	--	1.0	--	--
	lbs/day[1]	--	7.59	--	--
Settleable Solids	ml/L	--	0.2	--	--
Sulfate	mg/L	--	350		
	lbs/day[1]	--	2,656		

Parameter	Units	Effluent Limitations			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Sulfides	µg/L	--	1.0	--	--
	lbs/day[1]	--	7.6	--	--
Temperature	Degrees F	--	--	--	86
Total Dissolved Solids	mg/L	--	1,500	--	--
	lbs/day[1]	--	11,384	--	--
Total Petroleum Hydrocarbons	µg/L	--	100	--	--
	lbs/day[1]	--	0.8	--	--
Total Residual Chlorine	mg/L	--	0.1	--	--
	lbs/day[1]	--	0.76	--	--
Turbidity	NTU	--	75	--	--
Xylene	µg/L	--	1,750	--	--
	lbs/day[1]	--	13	--	--
Benzene	µg/L	--	1.0	--	--
	lbs/day[1]	--	0.0076	--	--
Cadmium, Wet Weather[3]	µg/L	1.5	3.1	--	--
	lbs/day[1]	0.011	0.024	--	--
Copper, Total Recoverable, Wet Weather[3]	µg/L	8.0	17	--	--
	lbs/day[1]	0.061	0.13	--	--
Copper, Total Recoverable, Dry Weather[3]	µg/L	15	32	--	--
	lbs/day[1]	0.11	0.24	--	--
Ethylbenzene	µg/L	--	680	--	--
	lbs/day[1]	--	5.2	--	--
Lead, Total Recoverable, Wet Weather[3]	µg/L	22	62	--	--
	lbs/day[1]	0.17	0.47	--	--
Lead, Total Recoverable, Dry Weather[3]	µg/L	5.9	16	--	--
	lbs/day[1]	0.045	0.12	--	--
PCBs, Total[4]	µg/L	0.00017	0.00034	--	--
	lbs/day[1]	0.00034	0.0026	--	--
TCDD Equivalents[5]	µg/L	1.4×10^{-8}	2.8×10^{-8}	--	--
	lbs/day[1]	1.1×10^{-10}	2.1×10^{-10}	--	--
Toluene	µg/L	--	10	--	--
	lbs/day[1]	--	0.076	--	--
Zinc, Total Recoverable, Wet Weather[3]	µg/L	57	159	--	--
	lbs/day[1]	0.43	1.2	--	--
Zinc, Total Recoverable, Dry Weather[3]	µg/L	74	206	--	--
	lbs/day[1]	0.56	1.6	--	--

[1] Mass loading limitations are based on the design flow of the storm water treatment plant at Discharge Point 001 (0.91 MGD) and are calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

[2] The maximum daily effluent limitation (MDEL) is exceeded when a toxicity test results in a “fail,” and the percent effect is greater than or equal to 0.50. The median monthly effluent limitation (MMEL) is exceeded when the median result (i.e. two out of three) is a “fail.”

[3] Within this Order, "dry-weather" is assumed for any discharge that is neither the result of precipitation nor the result of a precipitation event of a magnitude that is less than 500 cubic feet per second (cfs) as measured at Wardlow Station in Los Angeles River. The daily flow data at Wardlow station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff.

[4] Total PCBs (polychlorinated biphenyls) means the sum of chlorinated biphenyls whose analytical characteristics resembles those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.

[5] TCDD equivalents shall be calculated using the following formula, where the MLs and the toxicity equivalency factors (TEFs) are as listed in the Table below. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating TCDD equivalents, the Discharger shall set congener concentrations below the MLs to zero. U.S. EPA method 1613 may be used to analyze dioxin and furan congeners.

Dioxin-TEQ (TCDD equivalents) = Σ(Cx x TEFx)
where: Cx = concentration of dioxin or furan congener x
TEFx= TEF for congener x

Congeners	Minimum Levels (pg/L)	Toxicity Equivalence Factor (TEF)
2,3,7,8 - tetra CDD	10	1.0
1,2,3,7,8 - penta CDD	50	1.0
1,2,3,4,7,8 - hexa CDD	50	0.1
1,2,3,6,7,8 - hexa CDD	50	0.1
1,2,3,7,8,9 - hexa CDD	50	0.1
1,2,3,4,6,7,8 - hepta CDD	50	0.01
Octa CDD	100	0.0001
2,3,7,8 - tetra CDF	10	0.1
1,2,3,7,8 - penta CDF	50	0.05
2,3,4,7,8 - penta CDF	50	0.5
1,2,3,4,7,8 - hexa CDF	50	0.1
1,2,3,6,7,8 - hexa CDF	50	0.1
1,2,3,7,8,9 - hexa CDF	50	0.1
2,3,4,6,7,8 - hexa CDF	50	0.1
1,2,3,4,6,7,8 - hepta CDFs	50	0.01
1,2,3,4,7,8,9 - hepta CDFs	50	0.01
Octa CDF	100	0.0001

V. RECYCLING SPECIFICATIONS – NOT APPLICABLE

VI. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

The discharge shall not cause the following in Compton Creek:

1. The normal ambient pH to fall below 6.5 nor exceed 8.5 units nor vary from normal ambient pH levels by more than 0.5 units.

2. Surface water temperature to rise greater than 5º F above the natural temperature of the receiving waters at any time or place. At no time shall the temperature be raised above 86º F as a result of waste discharged.

3. The concentration of dissolved oxygen to fall below 5.0 mg/L at any time, and the median dissolved oxygen concentration for any three consecutive months shall not be less than 80 percent of the dissolved oxygen content at saturation.

4. Water Contact Standards

a. In Fresh Waters Designated for Water Contact Recreation (REC-1)

Geometric Mean Limits

E. coli density shall not exceed 126/100 ml.

Single Sample Limits

E. coli density shall not exceed 235/100 ml.

The single sample limit for *E. coli* is based on EPA's determination of the most appropriate single sample maximum density for water bodies infrequently used for full-body recreation (U.S. EPA. 1986. *Ambient Water Quality Criteria for Bacteria-1986*. Report No. EPA 330/5-84-002. January 1986)

5. The presence of visible, floating, suspended or deposited macroscopic particulate matter or foam.

6. Oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the receiving water or on objects in the water.

7. Suspended or settleable materials, chemical substances or pesticides in amounts that cause nuisance or adversely affect any designated beneficial use.

8. Toxic or other deleterious substances in concentrations or quantities which cause deleterious effects on aquatic biota, wildlife, or waterfowl or render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

9. Accumulation of bottom deposits or aquatic growths.

10. Biostimulatory substances at concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.

11. The presence of substances that result in increases of BOD that adversely affect beneficial uses.

12. Taste or odor-producing substances in concentrations that alter the natural taste, odor, and/or color of fish, shellfish, or other edible aquatic resources; cause nuisance; or adversely affect beneficial uses.

13. Alteration of turbidity, or apparent color beyond present natural background levels.

14. Damage, discolor, or formation of sludge deposits on flood control structures or facilities, or overloading of the design capacity.

15. Degradation of surface water communities and populations including vertebrate, invertebrate, and plant species.

16. Problems associated with breeding of mosquitoes, gnats, black flies, midges, or other pests.

17. Nuisance, or adversely affect beneficial uses of the receiving water.

18. Violation of any applicable water quality standards for receiving waters adopted by the Los Angeles Water Board or State Water Board.

B. Groundwater Limitations – Not Applicable

VII. PROVISIONS

A. Standard Provisions

1. The Discharger shall comply with all Standard Provisions included in Attachment D.

2. The Discharger shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order, the more stringent provision shall apply:

a. This Order may be modified, revoked, reissued, or terminated in accordance with the provisions of 40 C.F.R., sections 122.44, 122.62, 122.63, 122.64, 125.62 and 125.64. Causes for taking such actions include, but are not limited to: failure to comply with any condition of this Order; endangerment to human health or the environment resulting from the permitted activity; or acquisition of newly-obtained information which would have justified the application of different conditions if known at the time of Order adoption. The filing of a request by the Discharger for an Order modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

b. The Discharger must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of storm water to storm drain systems or other water courses under their jurisdiction; including applicable requirements in municipal storm water management programs developed to comply with NPDES permits issued by the Los Angeles Water Board to local agencies.

c. Discharge of wastes to any point other than specifically described in this Order and permit is prohibited and constitutes a violation thereof.

d. The Discharger shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to sections 301, 302, 303(d), 304, 306, 307, 316, 318, 405, and 423 of the federal CWA and amendments thereto.

e. 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.

f. 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 such spill of such materials shall be contained and removed immediately.

g. 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.

h. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:

   i. Violation of any term or condition contained in this Order;

   ii. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;

   iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

i. 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.

j. The Discharger shall notify the Los Angeles Water Board not later than 140 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 and the appropriate filing fee.

k. The Discharger shall file with the Los Angeles Water 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.

l. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Los Angeles Water Board as soon as they know or have reason to believe 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.

m. In the event of any change in name, ownership, or control of these waste disposal facilities, the discharger shall notify this Los Angeles Water 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 Los Angeles Water Board.

n. The Water Code provides that any person who violates a waste discharge requirement or a provision of the 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 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.

o. The discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which may ultimately be released to waters of the United States, is prohibited unless specifically authorized elsewhere in this permit or another NPDES permit. This requirement is not applicable to products used for lawn and agricultural purposes.

p. The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this permit.

q. The Discharger shall notify the Executive Officer in writing no later than 6 months prior to the planned discharge of any chemical, other than the products previously reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:

   i. Name and general composition of the chemical,

   ii. Frequency of use,

   iii. Quantities to be used,

   iv. Proposed discharge concentrations, and

   v. U.S. EPA registration number, if applicable.

r. Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this facility, may subject the Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.

s. In the event the Discharger does not comply or will be unable to comply for any reason, with any prohibition, average monthly effluent limitation, maximum daily effluent limitation, instantaneous minimum effluent limitation, instantaneous maximum effluent limitation, or receiving water limitation of this Order, the Discharger shall notify the Los Angeles Water Board by telephone (213) 576-6600 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing within five days, unless the Los Angeles Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and, prevent recurrence including, where applicable, a schedule of implementation. Other noncompliance requires written notification as above at the time of the normal monitoring report.

t. Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a watercourse, the Discharger must file a petition with the State Water Board, Division of Water Rights, and receive approval for such a change. (Wat. Code § 1211.)

B. Monitoring and Reporting Program (MRP) Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E.

C. Special Provisions

1. Reopener Provisions

a. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the federal CWA, and amendments thereto, the Los Angeles Water Board may revise and modify this Order in accordance with such more stringent standards.

b. This Order may be reopened to include effluent limitations for toxic constituents determined to be present in significant amounts in the discharge through a more comprehensive monitoring program included as part of this Order and based on the results of the RPA.

c. This Order may be reopened and modified, to incorporate in accordance with the provisions set forth in 40 C.F.R., parts 122 and 124, to include requirements for the implementation of the watershed management approach or to include new MLs.

d. This Order may be reopened and modified to revise effluent limitations as a result of future Basin Plan Amendments, such as an update of an objective or the adoption of a TMDL for the Los Angeles River and/or Compton Creek.

e. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity, monitoring requirements on internal waste stream(s), and monitoring for surrogate parameters. Additional

requirements may be included in this Order as a result of the special condition monitoring data.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. **Initial Investigation Toxicity Reduction Evaluation (TRE) Workplan.** The Discharger shall submit to the Los Angeles Water Board an Initial Investigation TRE workplan (1-2 pages) within 90 days of the effective date of this permit. This plan shall describe the steps the Discharger intends to follow in the event that toxicity is detected. See section V of the Monitoring and Reporting Program (Attachment E) for an overview of TRE requirements.

b. **Harbor Toxics TMDL Water Column and Sediment Monitoring for Responsible Parties in the Los Angeles River and Tributaries**

As required in the Harbor Toxics TMDL, Los Angeles River Watershed responsible parties identified in the effective Los Angeles River Metals TMDLs are responsible for conducting water and sediment monitoring above the Los Angeles River Estuary to determine the River's contribution to the impairments in the Greater Harbor waters. The Discharger is a "responsible party" because it is an "Individual Industrial Permittee". As such, either individually or with a collaborating group, the Discharger shall develop a monitoring and reporting plan (Monitoring Plan) and quality assurance project plan (QAPP) for the water column, and sediment above the Los Angeles River Estuary. These plans shall follow the "TMDL Element - Monitoring Plan" provisions in Attachment A to Resolution No. R11-008. The TMDL requires that the Monitoring Plan and QAPP shall be submitted 20 months after the effective date (March 23, 2012) of the TMDL for public review and subsequent Executive Officer approval. Since the effective date of this Order exceeds the deadline for the Monitoring Plan and QAPP, the Discharger shall join a group already formed or develop a site specific monitoring plan. If the Discharger decides to develop a site specific Monitoring Plan, the Discharger shall notify the Regional Water Board within 90 days of the effective date of the Order and submit the plan to the Regional Water Board within 12 months of the effective date of the Order for public comment and the Regional Water Board review and approval. The Discharger shall begin monitoring 6 months after the Monitoring Plan is approved by the Executive Officer, unless otherwise directed by the Executive Officer. The compliance monitoring program shall include water column and sediment. The Discharger shall submit the annual monitoring report to the Regional Water Board by the specified date in the proposed Monitoring Plan.

The Compliance Monitoring Program shall include:

i. **Water Column Monitoring**.

Water samples and total suspended solids samples shall be collected at, at least one site during two wet weather events and one dry weather event each year. The first large storm event of the season shall be included as one of the wet weather monitoring events. Water samples and total suspended solid samples shall be analyzed for metals, DDT, PCBs, and PAHs. Sampling shall be designed to collect sufficient volumes of suspended solids to allow for analysis of the listed pollutants in the bulk sediment.

General water chemistry (temperature, dissolved oxygen, pH, and electrical conductivity) and a flow measurement shall be required at each sampling event. General chemistry measurements may be taken in the laboratory immediately

following sample collection if auto samplers are used for sample collection or if weather conditions are unsuitable for field measurements.

ii. **Sediment Monitoring.**

For sediment chemistry, sediment samples shall be collected at, at least one site every two years for analysis of general sediment quality constituents and the full chemical suite as specified in the State Water Quality Control Plan for Enclosed Bays and Estuaries-Part 1 Sediment Quality (SQO Part 1). All samples shall be collected in accordance with Surface Water Ambient Monitoring Program (SWAMP) protocols.

iii. **Quality Assurance Project Plan:**

The Quality Assurance Project Plan (QAPP) shall describe the project objectives and organization, functional activities, and quality assurance/quality control protocols for the water and sediment monitoring. The QAPP shall include protocols for sample collection, standard analytical procedures, and laboratory certification. All samples shall be collected in accordance with SWAMP protocols. The details of the Harbor Toxics TMDL Water and Sediment Monitoring Plan including sampling locations and all methods shall be specified in the Monitoring Plans to be approved by the Executive Officer.

3. Best Management Practices and Pollution Prevention

a. **Storm Water Pollution Prevention, Best Management Practices, and Spill Contingency Plans.**

The Discharger shall submit, **within 90 days** of the effective date of this Order:

i. A Storm Water Pollution Prevention Plan (SWPPP) that describes site-specific management practices for minimizing contamination of storm water runoff and for preventing contaminated storm water runoff from being discharged directly to waters of the State. The SWPPP shall be developed in accordance with the requirements in Attachment G.

ii. A Best Management Practices Plan (BMPP), that includes site-specific plans and procedures implemented and/or to be implemented to prevent hazardous waste/material from being discharged to waters of the State. The BMPs shall be consistent with the general guidance contained in the U.S. EPA *Guidance Manual for Developing Best Management Practices (BMPs)* (EPA 833-B-93-004). In particular, a risk assessment of each area identified by the Discharger shall be performed to determine the potential for hazardous or toxic waste/material discharge to surface waters.

iii. A Spill Control Plan (SCP), that describes the preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events.

Each plan shall cover all areas of the Facility and shall include an updated drainage map for the Facility. The Discharger shall identify on a map of appropriate scale the areas that contribute runoff to the permitted discharge point; describe the activities in each area and the potential for contamination of storm water runoff and the discharge of hazardous waste/material; and address the feasibility of containment

and/or treatment of storm water. The plans shall be reviewed annually and at the same time. Updated information shall be submitted within 30 days of revision.

The Discharger shall implement the SWPPP, BMPP, and SCP (or SPCC) within 10 days of the approval by the Executive Officer or no later than 90 days after submission to the Los Angeles Water Board, whichever comes first. The plans shall be reviewed annually and at the same time. Updated information shall be submitted to the Los Angeles Water Board within 30 days of revisions.

4. Construction, Operation and Maintenance Specifications

a. The Discharger shall at all times properly operate and maintain all facilities and systems installed or used to achieve compliance with this order.

5. Other Special Provisions – Not Applicable

6. Compliance Schedules – Not Applicable

VIII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section IV of this Order will be determined as specified below:

A. Single Constituent Effluent Limitation.

If the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (see Reporting Requirement I.G. of the MRP), then the Discharger is out of compliance.

B. Effluent Limitations Expressed as a Sum of Several Constituents.

If the sum of the individual pollutant concentrations is greater than the effluent limitation, then the Discharger is out of compliance. In calculating the sum of the concentrations of a group of pollutants, consider constituents reported as ND or DNQ to have concentrations equal to zero, provided that the applicable ML is used.

C. Effluent Limitations Expressed as a Median.

In determining compliance with a median limitation, the analytical results in a set of data will be arranged in order of magnitude (either increasing or decreasing order); and

1. If the number of measurements (n) is odd, then the median will be calculated as = $X_{(n+1)/2}$, or

2. If the number of measurements (n) is even, then the median will be calculated as= $[X_{n/2} + X_{(n/2)+1}]/2$, i.e. the midpoint between the n/2 and n/2+1 data points.

D. Multiple Sample Data.

When determining compliance with an AMEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

1. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.

2. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

E. Average Monthly Effluent Limitation (AMEL).

If the average (or when applicable, the median determined by subsection 2 above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation; though the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month.

In determining compliance with the AMEL, the following provisions shall also apply to all constituents:

1. If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for that constituent, the Discharger has demonstrated compliance with the AMEL for that month;

2. If the analytical result of a single sample monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any constituent, the Discharger shall collect four additional samples at approximately equal intervals during the month. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later.

When all sample results are greater than or equal to the reported Minimum Level (see Reporting Requirement I.G. of the MRP), the numerical average of the analytical results of these five samples will be used for compliance determination.

When one or more sample results are reported as "Not-Detected (ND)" or "Detected, but Not Quantified (DNQ)" (see Reporting Requirement I.G. of the MRP), the median value of these four samples shall be used for compliance determination. If one or both of the middle values is ND or DNQ, the median shall be the lower of the two middle values.

3. In the event of noncompliance with an AMEL, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.

4. If only one sample was obtained for the month or more than a monthly period and the result exceeds the AMEL; then the Discharger is in violation of the AMEL.

F. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

G. Instantaneous Minimum Effluent Limitation.

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a violation will be flagged and the discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

H. Instantaneous Maximum Effluent Limitation.

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a violation will be flagged and the discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation.

I. Median Monthly Effluent Limitation (MMEL)

If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

J. Chronic Toxicity

The discharge is subject to determination of “Pass” or “Fail” and “Percent Effect” from a single-effluent concentration chronic toxicity test at the discharge IWC using the Test of Significant Toxicity (TST) approach described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (Ho) for the TST approach is: Mean discharge IWC response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as “Pass”. A test result that does not reject this null hypothesis is reported as “Fail”. The relative “Percent Effect” at the discharge IWC is defined and reported as ((Mean control response Mean discharge IWC response) Mean control response)) × 100.

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST approach, results in “Fail” and the “Percent Effect” is ≥0.50.

K. Mass and Concentration Limitations

Compliance with mass effluent limitations and concentration effluent limitations for the same parameter shall be determined separately. When the concentration for a parameter in a sample is reported as ND or DNQ, the corresponding mass emission rate determined using that sample concentration shall also be reported as ND or DNQ.

L. Bacterial Standards and Analyses

The geometric mean used for determining compliance with bacterial standards is calculated using the following equation:

$$\text{Geometric Mean} = (C_1 \times C_2 \times \ldots \times C_n)^{1/n}$$

where n is the number of days samples were collected during the period and C is the concentration of bacteria (MPN/100 mL or CFU/100 mL) found on each day of sampling. For bacterial analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total and fecal coliform, at a minimum, and 1 to 1000 per 100 ml for *Enterococcus*). The detection method used for each analysis shall be reported with the results of the analysis.

Detection methods used for coliforms (total and fecal) and *Enterococcus* shall be those presented in Table 1A of Part 136 (revised July 1, 2009), unless alternate methods have been approved by U.S. EPA pursuant to Part 136.

ATTACHMENT A – DEFINITIONS

Arithmetic Mean (μ)
Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

Arithmetic mean = $\mu = \Sigma x / n$ where: Σx is the sum of the measured ambient water concentrations, and n is the number of samples.

Average Monthly Effluent Limitation (AMEL)
The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)
The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Bioaccumulative
Those substances taken up by an organism from its surrounding medium through gill membranes, epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

Carcinogenic
Pollutants are substances that are known to cause cancer in living organisms.

Coefficient of Variation (CV)
CV is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

Daily Discharge
Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Detected, but Not Quantified (DNQ)
DNQ are those sample results less than the RL, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

Dilution Credit
Dilution Credit is the amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is calculated from the

dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

Effluent Concentration Allowance (ECA)
ECA is a value derived from the water quality criterion/objective, dilution credit, and ambient background concentration that is used, in conjunction with the coefficient of variation for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as waste load allocation (WLA) as used in U.S. EPA guidance (Technical Support Document For Water Quality-based Toxics Control, March 1991, second printing, EPA/505/2-90-001).

Enclosed Bays
Enclosed Bays means indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake's Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

Estimated Chemical Concentration
The estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

Estuaries
Estuaries means waters, including coastal lagoons, located at the mouths of streams that serve as areas of mixing for fresh and ocean waters. Coastal lagoons and mouths of streams that are temporarily separated from the ocean by sandbars shall be considered estuaries. Estuarine waters shall be considered to extend from a bay or the open ocean to a point upstream where there is no significant mixing of fresh water and seawater. Estuarine waters included, but are not limited to, the Sacramento-San Joaquin Delta, as defined in Water Code section 12220, Suisun Bay, Carquinez Strait downstream to the Carquinez Bridge, and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

Inland Surface Waters
All surface waters of the state that do not include the ocean, enclosed bays, or estuaries.

Instantaneous Maximum Effluent Limitation
The highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation
The lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL)
The highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

Median
The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median = $X_{(n+1)/2}$. If n is even, then the median = $(X_{n/2} + X_{(n/2)+1})/2$ (i.e., the midpoint between the n/2 and n/2+1).

Method Detection Limit (MDL)
MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 C.F.R. part 136, Attachment B, revised as of July 3, 1999.

Minimum Level (ML)
ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Mixing Zone
Mixing Zone is a limited volume of receiving water that is allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

Not Detected (ND)
Sample results which are less than the laboratory's MDL.

Persistent Pollutants
Persistent pollutants are substances for which degradation or decomposition in the environment is nonexistent or very slow.

Pollutant Minimization Program (PMP)
PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Los Angeles Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

Pollution Prevention
Pollution Prevention means any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board (State Water Board) or Los Angeles Water Board.

Reporting Level (RL)
The RL is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the ML's included in this Order, including an additional factor if applicable as discussed herein. The ML's included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Los Angeles Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Source of Drinking Water
Any water designated as municipal or domestic supply (MUN) in a Los Angeles Water Board Basin Plan.

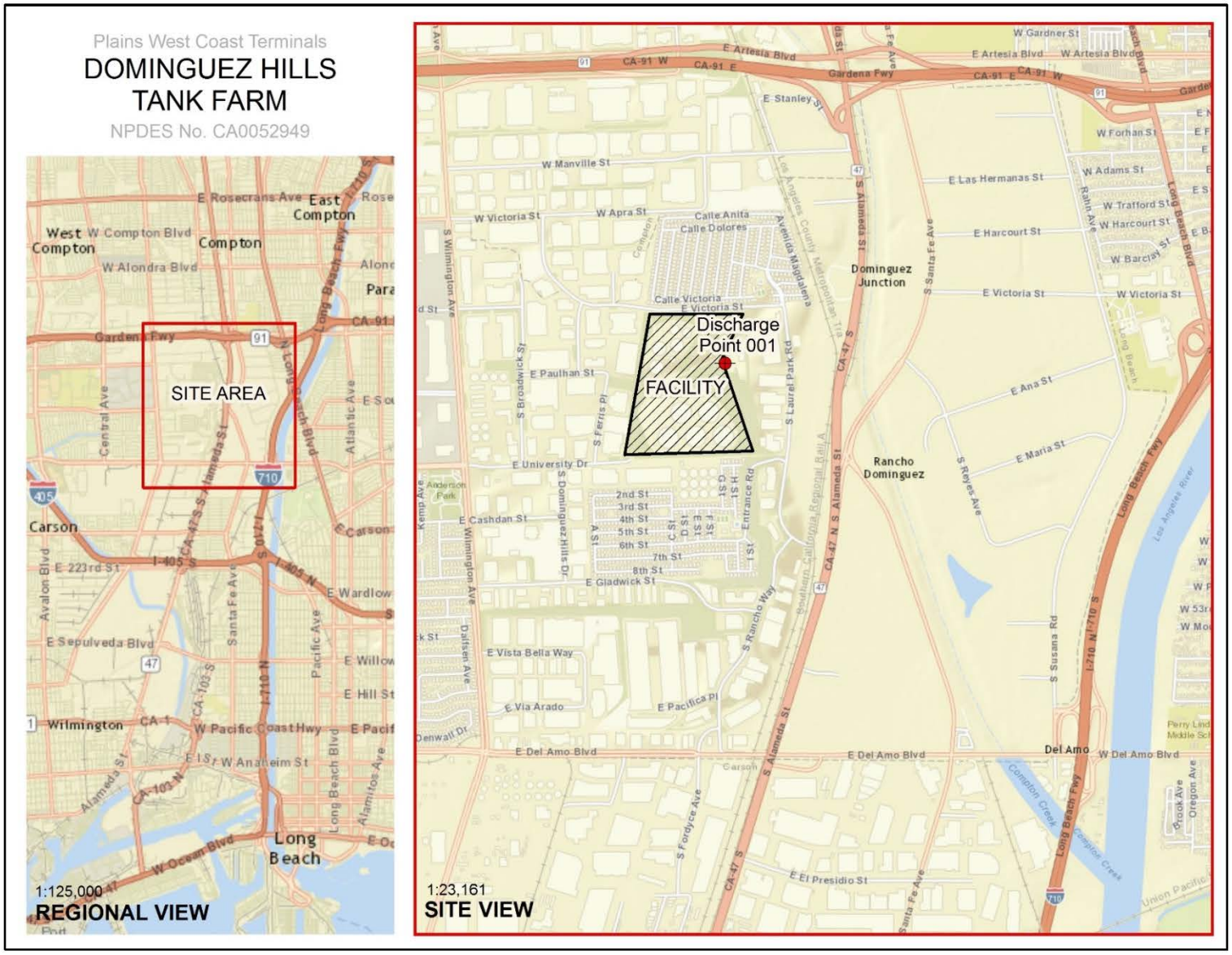
Standard Deviation (σ)
Standard Deviation is a measure of variability that is calculated as follows:

$$\sigma = (\sum[(x - \mu)^2]/(n - 1))^{0.5}$$

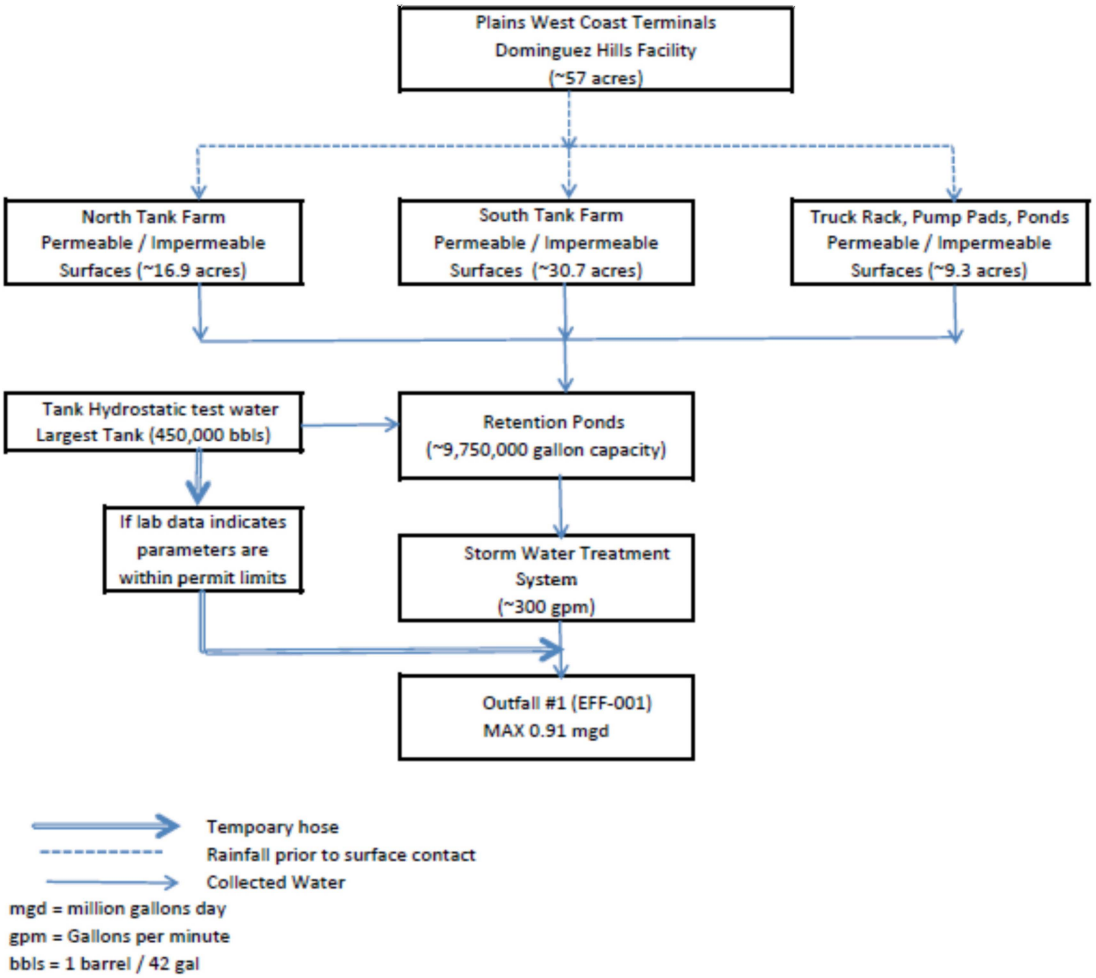
where:
x is the observed value;
μ is the arithmetic mean of the observed values; and
n is the number of samples.

Toxicity Reduction Evaluation (TRE)
TRE is a study conducted in a step-wise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. (A TIE is a set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.)

ATTACHMENT B – MAPS



ATTACHMENT C – FLOW SCHEMATIC



ATTACHMENT D – STANDARD PROVISIONS

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

1. The Discharger must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 C.F.R. § 122.41(a); Wat. Code, §§ 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)

2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA 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. (40 C.F.R. § 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

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. (40 C.F.R. § 122.41(c).)

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)

2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

F. Inspection and Entry

The Discharger shall allow the Los Angeles Water Board, State Water Board, U.S. EPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i); Wat. Code, §§ 13267, 13383):

1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(i); 40 C.F.R. § 122.41(i)(1); Wat. Code, §§ 13267, 13383);
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(2); Wat. Code, §§ 13267, 13383);
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(3); Wat. Code, §§ 13267, 13383); and
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i)(4); Wat. Code, §§ 13267, 13383.)

G. Bypass

1. Definitions
   a. “Bypass” means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
   b. “Severe property damage” means substantial physical damage to property, damage to the treatment facilities, which 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. (40 C.F.R. § 122.41(m)(1)(ii).)
2. Bypass not exceeding limitations. The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 C.F.R. § 122.41(m)(2).)
3. Prohibition of bypass. Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
   a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));
   b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
   c. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance I.G.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)
4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)

5. Notice

a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass. (40 C.F.R. § 122.41(m)(3)(i).)

b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). (40 C.F.R. § 122.41(m)(3)(ii).)

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit 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 operation. (40 C.F.R. § 122.41(n)(1).)

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).)

2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):

a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));

b. The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));

c. The Discharger submitted notice of the upset as required in Standard Provisions – Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and

d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)

3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

II. STANDARD PROVISIONS – PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)

B. Duty to Reapply

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 permit. (40 C.F.R. § 122.41(b).)

C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water 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 CWA and the Water Code. (40 C.F.R. §§ 122.41(l)(3), 122.61.)

III. STANDARD PROVISIONS – MONITORING

A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)

B. Monitoring results must be conducted according to test procedures approved under 40 C.F.R. part 136 for the analyses of pollutants unless another method is required under 40 C.F.R. subchapters N or O. In the case of pollutants for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. subchapters N or O, monitoring must be conducted according to a test procedure specified in this Order for such pollutants. (40 C.F.R. §§ 122.41(j)(4), 122.44(i)(1)(iv).)

IV. STANDARD PROVISIONS – RECORDS

A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 C.F.R. part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)

B. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
2. The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
6. The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and

2. Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Regional Water Board, State Water Board, or U.S. EPA within a reasonable time, any information which the Regional Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Regional Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, §§ 13267, 13383.)

B. Signatory and Certification Requirements

1. All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or U.S. EPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below. (40 C.F.R. § 122.41(k).)

2. All permit applications shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. (40 C.F.R. § 122.22(a)(1).)

3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or U.S. EPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Standard Provisions – Reporting V.B.2 above (40 C.F.R. § 122.22(b)(1));

b. The 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.) (40 C.F.R. § 122.22(b)(2)); and

c. The written authorization is submitted to the Regional Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)

4. If an authorization under Standard Provisions – Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting V.B.3 above must be submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)

5. Any person signing a document under Standard Provisions – Reporting V.B.2 or V.B.3 above shall make the following certification:

"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 fine and imprisonment for knowing violations." (40 C.F.R. § 122.22(d).)

C. Monitoring Reports

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 C.F.R. § 122.41(l)(4).)

2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices. (40 C.F.R. § 122.41(l)(4)(i).)

3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 C.F.R. part 136, or another method required for an industry-specific waste stream under 40 C.F.R. subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board. (40 C.F.R. § 122.41(l)(4)(ii).)

4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(l)(4)(iii).)

D. Compliance Schedules

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. (40 C.F.R. § 122.41(l)(5).)

E. Twenty-Four Hour Reporting

1. 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 (5) 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. (40 C.F.R. § 122.41(l)(6)(i).)

2. The following shall be included as information that must be reported within 24 hours under this paragraph (40 C.F.R. § 122.41(l)(6)(ii)):

a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(A).)

b. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(B).)

3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours. (40 C.F.R. § 122.41(l)(6)(iii).)

F. Planned Changes

The Discharger shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(l)(1)):

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) (40 C.F.R. § 122.41(l)(1)(i)); or

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(l)(1)(ii).)

3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 C.F.R.§ 122.41(l)(1)(iii).)

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Regional Water Board or State Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 C.F.R. § 122.41(l)(2).)

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. (40 C.F.R. § 122.41(l)(7).)

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board**,** State Water Board, or U.S. EPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(l)(8).)

VI. STANDARD PROVISIONS – ENFORCEMENT

A. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Regional Water Board as soon as they know or have reason to believe (40 C.F.R. § 122.42(a)):

1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(1)):

a. 100 micrograms per liter (µg/L) (40 C.F.R. § 122.42(a)(1)(i));

b. 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(1)(ii));

c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(1)(iii)); or

d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(1)(iv).)

2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following “notification levels" (40 C.F.R. § 122.42(a)(2)):

a. 500 micrograms per liter (µg/L) (40 C.F.R. § 122.42(a)(2)(i));

b. 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(2)(ii));

c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(2)(iii)); or

d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(2)(iv).)

ATTACHMENT E – MONITORING AND REPORTING PROGRAM NO. CI-5841

CONTENTS

I. General Monitoring Provisions E-2
II. Monitoring Locations E-5
III. Influent Monitoring Requirements – Not Applicable E-5
IV. Effluent Monitoring Requirements E-5
  A. Monitoring Locations EFF-001 ..... E-5
V. Whole Effluent Toxicity Testing Requirements E-7
VI. Land Discharge Monitoring Requirements – Not Applicable E-11
VII. Recycling Monitoring Requirements – Not Applicable E-11
VIII. Receiving Water Monitoring Requirements E-11
  A. Monitoring Location RSW-001 ..... E-11
IX. Other Monitoring Requirements E-12
X. Reporting Requirements E-12
  A. General Monitoring and Reporting Requirements E-12
  B. Self-Monitoring Reports (SMR's) E-13
  C. Discharge Monitoring Reports (DMR's) – Not Applicable E-15
  D. Other Reports E-15

TABLES

Table E-1. Monitoring Station Locations E-5
Table E-2. Effluent Monitoring at EFF-001 ..... E-5
Table E-3. U.S. EPA Test Methods and Test Acceptability Criteria E-9
Table E-4. Receiving Water Monitoring Requirements – RSW-001 ..... E-11
Table E-5. Monitoring Periods and Reporting Schedule E-13

ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

Section 308 of the federal Clean Water Act (CWA) and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of title 40 of the Code of Federal Regulations (40 C.F.R.) require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Los Angeles Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement the federal and California laws and/or regulations.

I. GENERAL MONITORING PROVISIONS

A. An effluent sampling station shall be established for Discharge Point 001 shall be located where representative samples of that effluent can be obtained.

B. Effluent samples shall be taken prior to mixing with the receiving waters.

C. The Los Angeles Water Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.

D. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. sections 136.3, 136.4, and 136.5 (revised August 19, 2012); or, where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board or the State Water Board.

Laboratories analyzing effluent samples and receiving water samples shall be certified by the State Water Board, Drinking Water Division, Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.

E. For any analyses performed for which no procedure is specified in the U.S. EPA guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.

F. Each monitoring report must affirm in writing that “all analyses were conducted at a laboratory certified for such analyses by the Department of Public Health or approved by the Executive Officer and in accordance with current U.S. EPA guideline procedures or as specified in this MRP”.

G. The monitoring reports shall specify the analytical method used, the Method Detection Limit (MDL), and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:

1. An actual numerical value for sample results greater than or equal to the ML; or

2. “Detected, but Not Quantified (DNQ)” if results are greater than or equal to the laboratory’s MDL but less than the ML; or,

3. “Not-Detected (ND)” for sample results less than the laboratory’s MDL with the MDL indicated for the analytical method used.

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.

Current MLs (Attachment H) are those published by the State Water Board in the Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, February 24, 2005.

H. The ML's employed for effluent analyses shall be lower than the permit limitations established for a given parameter as per the National Pollutant Discharge Elimination System (NPDES); Use of Sufficiently Sensitive Test Methods for Permit Applications and Reporting at 40 CFR Parts 122 and 136. If the ML value is not below the effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

I. The MLs employed for effluent analyses not associated with determining compliance with effluent limitations is this order shall be lower than the lowest applicable water quality objective, for a given parameter as per 40 CFR Parts 122 and 136 (Sufficiently Sensitive Test Methods). If the ML value is not below the lowest applicable water quality objective, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test, the associated laboratory QA/QC procedures, reporting levels (RLs), and method detection limits.

The Los Angeles Water Board, in consultation with the State Water Board Quality Assurance Program, shall establish a ML that is not contained in Attachment H to be included in the Discharger's permit in any of the following situations:

1. When the pollutant under consideration is not included in Attachment H;

2. When the Discharger and Los Angeles Water Board agree to include in the permit a test method that is more sensitive than that specified in Part 136 (revised May 18, 2012);

3. When the Discharger agrees to use an ML that is lower than that listed in Attachment H;

4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment H, and proposes an appropriate ML for their matrix; or,

5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the U.S. EPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Los Angeles Water Board, and the State Water Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.

J. Water/wastewater samples must be analyzed within allowable holding time limits as specified in section 136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Los Angeles Water Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.

K. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.

L. 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.

M. The Discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. Unless otherwise specified in the analytical method, duplicate samples must be analyzed at a frequency of 5% (1 in 20 samples) with at least one if there are fewer than 20 samples in a batch. A batch is defined as a single analytical run encompassing no more than 24 hours from start to finish. A similar frequency shall be maintained for analyzing spiked samples.

N. Field analyses with short sample holding time such as pH, total residual chlorine, and temperature, may be performed using properly calibrated and maintained portable instruments by trained personnel acting on the Discharger's behalf, using methods in accordance with 40 C.F.R. part 136. All field instruments must be calibrated per manufacturer's instructions. A manual containing the standard operating procedures for all field analyses, including records of personnel proficiency training, instruments calibration and maintenance, and quality control procedures shall be maintained onsite, and shall be available for inspection by Regional Water Board staff. Information including instrument calibration, time of sample collection, time of analysis, name of analyst, quality assurance/quality control data, and measurement values shall be clearly documented during each field analysis and submitted to the Regional Water Board as part of the corresponding regular monitoring report.

O. When requested by the Los Angeles Water Board or U.S. 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%.

P. For parameters that both average monthly and daily maximum limits are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the average monthly limit, the Discharger shall collect four additional samples at approximately equal intervals during the month, until compliance with the average monthly limit has been demonstrated. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later. In the event of noncompliance with an average monthly effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the average monthly effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the average monthly limit.

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

1. Types of wastes and quantity of each type;

2. Name and address for each hauler of wastes (or method of transport if other than by hauling); and

3. Location of the final point(s) of disposal for each type of waste.

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

R. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
Effluent Monitoring		
001	EFF-001	The effluent sampling station shall be located where representative samples of Discharge Point 001 can be obtained prior to discharge into the storm drain that conveys to the Compton Creek. (Latitude 33º 51' 44" N, Longitude 118º 13' 21" W)
Receiving Water Monitoring		
--	RSW-001	A location where a representative sample of the receiving water can be obtained upstream of the public storm drain outfall to Compton Creek.

III. INFLUENT MONITORING REQUIREMENTS – NOT APPLICABLE

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Locations EFF-001

1. The Discharger shall monitor storm water discharges from Discharge Point 001 at Monitoring Location EFF-001 as follows. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding minimum level.

Table E-2. Effluent Monitoring at EFF-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Total Flow[1]	Gallons	Meter	1/Discharge Event	--
Daily Average Flow[1]	MGD	Calculate	1/Discharge Event	--
Conventional Pollutants				
Biochemical Oxygen Demand (BOD) (5-day @ 20℃)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
E. Coli	MPN/100 ml	Grab	1/Discharge Event[3,4]	[5]
Fecal Coliform	MPN/100 ml	Grab	1/Discharge Event[3,4]	[5]
Oil and Grease	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
pH	standard units	Grab	1/Discharge Event[3,4]	[5]
Total Suspended Solids (TSS)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Non-conventional Pollutants				
Ammonia Nitrogen, Total (as N)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Benzene	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Chloride	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Chronic Toxicity[6]	Pass or Fail, % effect	Grab	1/Discharge Event[3,4]	[6]

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Ethylbenzene	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Hardness	mg/L	Grab	1/Discharge Event[3, 4]	[5]
Methyl Tert-butyl Ether (MTBE)	µg/L	Grab	1/Year[7]	[5]
Nitrate (as N)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Nitrite (as N)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Nitrite plus nitrate (as N)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Oil and Grease	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Settleable Solids	ml/L	Grab	1/Discharge Event[3,4]	[5]
Sulfides, Total (as S)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Sulfates	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Temperature	°F	Grab	1/Discharge Event[3,4]	[5]
Toluene	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Total Petroleum Hydrocarbons (TPH) as Gasoline (C_4-C_{12})	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	EPA Method 503.1 or 8015B
TPH as Diesel (C_{13}-C_{22})	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	EPA method 503.1, 8015b, or 8270
TPH as Waste Oil (C_{23+})	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	EPA method 503.1, 8015b, or 8270
Total Dissolved Solids (TDS)	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Total Phenols	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Turbidity	NTU	Grab	1/Discharge Event[3,4]	[5]
Xylene	mg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Priority Pollutants				
Cadmium, Total Recoverable	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Copper, Total Recoverable	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Lead, Total Recoverable	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Zinc, Total Recoverable	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
Polychlorinated Biphenyls (PCBs), Total[8]	µg/L, lbs/day[2]	Grab	1/Discharge Event[3,4]	[5]
TCDD Equivalents[9]	µg/L, lbs/day[2]	Grab	2/Year[7]	[5]
Remaining Priority Pollutants[10]	µg/L	Grab	1/Year[7]	[5]

[1] Total waste flow will indicate the volume of water (in gallons) discharged with each discharge event. The Discharger shall also calculate the daily average flow for each discharge event by dividing the total discharge flow by the number of days over which the discharge occurred; this shall represent the daily average flow (MGD). Periods of no flow shall also be reported.

[2] The mass emission (lbs/day) for the discharge shall be calculated and reported using the limitation concentration and the actual flow rate measured at the time of discharge, using the formula:

$M = 8.34 \times Ce \times Q$

where: M = mass discharge for a pollutant, lbs/day
Ce = Reported concentration for a pollutant in mg/L

Q = actual discharge flow rate (MGD).

[3] During periods of multiple days of discharge beyond 1 week, no more than one sample per week need be taken.

[4] Sampling shall be performed during the first hour of discharge. If there is no discharge to surface waters, then no monitoring is required. In the corresponding monitoring report, the Discharger will indicate under statement of perjury that no effluent was discharged to the storm drain or surface water.

[5] Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136; for priority pollutants, the methods must meet the lowest MLs specified in Attachment 4 of the SIP, provided in Attachment H. Where no methods are specified for a given pollutant, the methods must be approved by the Los Angeles Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding ML necessary to demonstrate compliance with applicable effluent limitations.

[6] The Discharger shall conduct Whole Effluent Toxicity monitoring as outlined in section V. Refer to section V.A.7 of this MRP for the accelerated monitoring schedule. The median monthly summary result shall be reported as “Pass” or “Fail”. The maximum daily single result shall be reported as “Pass or Fail” and “% Effect”. When there is discharge more than one day in a calendar month period, up to three independent toxicity tests are required when one toxicity test results in “Fail”.

[7] Annual samples and the first of the semi-annual samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If no discharge occurs, no monitoring is required.

[8] Total PCBs (polychlorinated biphenyls) means the sum of chlorinated biphenyls whose analytical characteristics resembles those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.

[9] TCDD equivalents shall be calculated using the following formula, where the MLs and the toxicity equivalency factors (TEFs) are as listed in the Table below. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating TCDD equivalents, the Discharger shall set congener concentrations below the MLs to zero. U.S. EPA method 1613 may be used to analyze dioxin and furan congeners.

Dioxin-TEQ (TCDD equivalents) = $\Sigma(Cx \times TEFx)$
where: Cx = concentration of dioxin or furan congener x
TEFx= TEF for congener x

Congeners	Minimum Levels (pg/L)	Toxicity Equivalence Factor (TEF)
2,3,7,8 - tetra CDD	10	1.0
1,2,3,7,8 - penta CDD	50	1.0
1,2,3,4,7,8 - hexa CDD	50	0.1
1,2,3,6,7,8 - hexa CDD	50	0.1
1,2,3,7,8,9 - hexa CDD	50	0.1
1,2,3,4,6,7,8 - hepta CDD	50	0.01
Octa CDD	100	0.0001
2,3,7,8 - tetra CDF	10	0.1
1,2,3,7,8 - penta CDF	50	0.05
2,3,4,7,8 - penta CDF	50	0.5
1,2,3,4,7,8 - hexa CDF	50	0.1
1,2,3,6,7,8 - hexa CDF	50	0.1
1,2,3,7,8,9 - hexa CDF	50	0.1
2,3,4,6,7,8 - hexa CDF	50	0.1
1,2,3,4,6,7,8 - hepta CDFs	50	0.01
1,2,3,4,7,8,9 - hepta CDFs	50	0.01
Octa CDF	100	0.0001

[10] Priority Pollutants as defined by the California Toxics Tule (CTR) defined in Attachment I to this Order.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Chronic Toxicity

1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity

The chronic toxicity IWC for this discharge is 100 percent effluent.

2. Sample Volume and Holding Time

The total sample volume shall be determined by the specific toxicity test method used. Sufficient sample volume shall be collected to perform the required toxicity test and Toxicity Identification Evaluation (TIE) studies. All toxicity tests shall be conducted as soon as possible following sample collection. No more than 36 hours shall elapse before the conclusion of sample collection and test initiation.

3. Chronic Freshwater Species and Test Methods

If effluent samples are collected from outfalls discharging to receiving waters with salinity <1 ppt, the Discharger shall conduct the following chronic toxicity tests on effluent samples—at the in-stream waste concentration for the discharge—in accordance with species and test methods in *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002). In no case shall these species be substituted with another test species unless written authorization from the Regional Board Executive Officer is received.

a. A static renewal toxicity test with the fathead minnow, *Pimephales promelas* (Larval Survival and Growth Test Method 1000.0).

b. A static renewal toxicity test with the daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.0).

c. A static renewal toxicity test with the green alga, *Selenastrum capricornutum* (also named *Raphidocelis subcapitata*) (Growth Test Method 1003.0).

4. Species Sensitivity Screening

Species sensitivity screening shall be conducted during this permit's first sample collection. The Discharger shall collect a single effluent sample and concurrently conduct three toxicity tests, using the fish, an invertebrate, and the alga species as referenced in this section. The sample shall also be analyzed for the parameters required for the discharge. The species that exhibits the highest "Percent Effect" at the discharge IWC during species sensitivity screening shall be used for routine monitoring during the permit cycle.

Rescreening is required at least once per five (5) years. The Discharger shall rescreen with the three species listed above and continue to monitor with the most sensitive species. If the first suite of rescreening tests demonstrates that the same species is the most sensitive, then the rescreening does not need to include more than one suit of tests. If a different species is the most sensitive, or if there is ambiguity as to what species is the most sensitive, then the Discharger shall proceed with suites of screening tests using enough collected effluent for a minimum of three, but not to exceed five suites.

5. Quality Assurance and Additional Requirements

Quality assurance measures, instructions, and other recommendations and requirements are found in the test methods manual previously referenced. Additional requirements are specified below.

a. The discharge is subject to a determination of "Pass" or "Fail" and "Percent Effect" from a single-effluent concentration chronic toxicity test at the discharge IWC using

the Test of Significant Toxicity (TST) statistical approach described in *National Pollutant Discharge Elimination System Test of Significant Toxicity/Implementation Document* (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (H_o) for the TST statistical approach is: Mean discharge IWC response ≤ (0.75 x Mean control response). A test result that does not reject this null hypothesis is reported as "Fail". The relative "Percent Effect" at the discharge IWC is defined and reported as: ((Mean control response-Mean discharge IWC response) ÷ Mean control response)) x 100%.

b. The Median Monthly Effluent Limitation (MMEL) for chronic toxicity only applies when there is a discharge on more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail". This limitation is not applicable to discharges composed entirely of industrial storm water.

c. Dilution water and control water, including brine controls, shall be laboratory water prepared and used as specified in the test methods manual. If dilution water and control water is different from test organism culture water, then a second control using culture water shall also be used.

d. Monthly reference toxicant testing is sufficient. All reference toxicant test results should be reviewed and reported.

e. The Discharger shall perform toxicity tests on final effluent samples. Chlorine and ammonia shall not be removed from the effluent sample prior to toxicity testing, unless explicitly authorized under this section of the Monitoring and Reporting Program and the rational is explained in the Fact Sheet (Attachment F).

6. Preparation of an Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan

The Discharger shall prepare and submit a generic Initial Investigation TRE Work Plan within 90 days of the permit effective date to be ready to respond to toxicity events. The Discharger shall review and update this work plan as necessary so it remains current and applicable to the discharge. At a minimum, the work plan shall include:

a. A description of the investigation and evaluation techniques that will be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.

b. A description of the Facility's methods of maximizing in-house treatment efficiency good housekeeping practices, and a list of all chemicals used in the operation of the Facility; and,

c. If a Toxicity Identification Evaluation (TIE) is necessary, an indication of who would conduct the TIEs (i.e., an in-house expert or outside contractor).

7. Toxicity Identification Evaluation and Toxicity Reduction Evaluation Process

a. **Toxicity Identification Evaluation (TIE).** A toxicity test sample is immediately subject to TIE procedures to identify the toxic chemical(s), if a chronic toxicity test shows "Fail and % Effect value ≥50". The Discharger shall initiate a TIE using, as guidance, EPA manuals: *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPA/600/6-91/003, 1991); *Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/080, 1993); *Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity*

(EPA/600/R-92/081, 1993); and *Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document* (EPA/600/R-96-054, 1996). The TIE must be conducted on the species demonstrating the most sensitive toxicity response.

b. **Toxicity Reduction Evaluation (TRE).** When a toxicant or class of toxicants is identified, a TRE shall be performed for that toxicant. The TRE shall include all reasonable steps to identify the source(s) of toxicity and discuss appropriate BMPs to eliminate the causes of toxicity. No later than 30 days after the source of toxicity and appropriate BMPs and/or treatment are identified, the Discharger shall submit a TRE Corrective Action Plan to the Executive Officer for approval. At minimum, the plan shall include:

   i. The potential sources of pollutant(s) causing toxicity.

   ii. Recommended BMPs and/or treatment to reduce the pollutant(s) causing toxicity.

   iii. Follow-up monitoring to demonstrate that toxicity has been removed.

   iv. Actions the Discharger will take to mitigate the effects of the discharge and prevent the recurrence of toxicity.

   v. A schedule for these actions, progress reports, and the final report.

c. Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and storm water control programs. TRE efforts should be coordinated with such efforts. As toxic substances are identified or characterized, the Discharger shall continue the TRE by determining the sources and evaluating alternative strategies for reducing or eliminating the substances from the discharge. All reasonable steps shall be taken to reduce toxicity to levels consistent with toxicity evaluation parameters.

d. The Discharger shall conduct routine effluent monitoring for the duration of the TIE/TRE process.

e. The Regional Water Board recognizes that toxicity may be episodic and identification of causes and reduction of sources of toxicity may not be successful in all cases. The TRE may be ended at any stage if monitoring finds there is no longer toxicity.

8. Reporting

The Self-Monitoring Report (SMR) shall include a full laboratory report for each toxicity test. This report shall be prepared using the format and content of the test methods manual chapter called Report Preparation, including:

a. The toxicity test results for the TST approach, reported as “Pass” or “Fail” and “Percent Effect” at the chronic toxicity IWC for the discharge.

b. Water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, hardness, salinity, chlorine, ammonia).

c. TRE/TIE results. The Executive Officer shall be notified no later than 30 days from completion of each aspect of TRE/TIE analyses.

d. Statistical program (e.g., TST calculator, CETIS, etc.) output results for each toxicity test.

B. Ammonia Removal

1. Except with prior approval from the Executive Officer of the Los Angeles Water Board, ammonia shall not be removed from bioassay samples. The Discharger must demonstrate the effluent toxicity is caused by ammonia because of increasing test pH when conducting the toxicity test. It is important to distinguish the potential toxic effects of ammonia from other pH sensitive chemicals, such as certain heavy metals, sulfide, and cyanide. The following may be steps to demonstrate that the toxicity is caused by ammonia and no other toxicants before the Executive Officer would allow for control of pH in the test.

   a. There is consistent toxicity in the effluent and the maximum pH in the toxicity test is in the range to cause toxicity due to increased pH.

   b. Chronic ammonia concentrations in the effluent are greater than 4 mg/L total ammonia.

   c. Conduct graduated pH tests as specified in the toxicity identification evaluation methods. For example, mortality should be higher at pH 8 and lower at pH 6.

   d. Treat the effluent with a zeolite column to remove ammonia. Mortality in the zeolite treated effluent should be lower than the non-zeolite treated effluent. Then add ammonia back to the zeolite-treated samples to confirm toxicity due to ammonia.

2. When it has been demonstrated that toxicity is due to ammonia because of increasing test pH, pH may be controlled using appropriate procedures which do not significantly alter the nature of the effluent, after submitting a written request to the Los Angeles Water Board, and receiving written permission expressing approval from the Executive Officer of the Los Angeles Water Board.

C. Chlorine Removal

1. Except with prior approval from the Executive Officer of the Los Angeles Water Board, chlorine shall not be removed from bioassay samples.

VI. LAND DISCHARGE MONITORING REQUIREMENTS – NOT APPLICABLE

VII. RECYCLING MONITORING REQUIREMENTS – NOT APPLICABLE

VIII. RECEIVING WATER MONITORING REQUIREMENTS

A. Monitoring Location RSW-001

1. Receiving water monitoring shall be required only in years in which a discharge occurs. When required, the Discharger shall monitor Compton Creek at Monitoring Location RSW-001 as follows:

Table E-3. Receiving Water Monitoring Requirements – RSW-001

Parameter	Units	Sample Type	Minimum Sampling Frequency[1]	Required Analytical Test Method
E. Coli	MPN/100 ml	Grab	1/Year	[2]
pH[3]	standard units	Grab	1/Year	[2]
Hardness, Total as $CaCO_3$)[4]	mg/L	Grab	1/Year	[2]
Temperature[3]	°F	Grab	1/Year	[2]
Remaining priority pollutants[4, 5]	µg/L	Grab	1/Year	[2]

1. Samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If, for safety reasons, a sample cannot be obtained during the first hour of discharge, then a sample shall be obtained, at first safe opportunity within 12 hours of the beginning of storm water discharge, and the reason for the delay shall be included in the report. If there is no discharge to surface waters, then no monitoring is required. In the corresponding monitoring report, the Discharger will indicate under statement of perjury that no effluent was discharged to surface water
2. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136; for priority pollutants, the methods must meet the lowest MLs specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding Minimum Level.
3. pH and temperature must be collected at the same time as ammonia samples.
4. Hardness shall be collected at the same time as priority pollutant analyses.
5. Priority Pollutants as defined by the California Toxics Rule (CTR) defined in Attachment I.

B. Harbor Toxic TMDL Monitoring Requirements.

The Harbor Toxics TMDL requires the responsible parties identified in the metals TMDLs for Los Angeles River to conduct water and sediment monitoring above the Los Angeles River Estuary to determine the river's contribution to the impairments in the Greater Harbor waters. The Discharger is identified as a responsible party in the metals TMDL for the Los Angeles River. Although WLAs are not assigned to the Los Angeles River Watershed Responsible Parties, the Harbor Toxics TMDL does require these parties to develop and implement a monitoring plan and submit annual reports regarding implementation. In this permit, the Permitttee is required to comply with the terms of the TMDL. As specified in section VII.C.2. of the Order, the Discharger shall join a group already formed or develop a site specific monitoring plan. That section also includes the requirements for the monitoring plan.

IX. OTHER MONITORING REQUIREMENTS

A. Storm Water Monitoring

1. **Rainfall Monitoring.** The Discharger shall measure and record the rainfall on each day of the month. This information shall be included in the monitoring report for that month.
2. **Visual Observation.** The Discharger shall make visual observations of all storm water discharge locations on at least one storm event per month that produces a significant storm water discharge to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity, and odor. A "significant storm water discharge" is a continuous discharge of storm water for a minimum of one hour, or the intermittent discharge of storm water for a minimum of 3 hours in a 12-hour period.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
2. If there is no discharge during any reporting period, the report shall so state.
3. If the Discharger monitors (other than for process/operational control, startup, research, or equipment testing) any influent, effluent, or receiving water constituent more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the monitoring report. These results shall be reflected in the calculation of the average (or median) used in demonstrating compliance with this Order/Permit.
4. 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.

5. The Discharger shall inform the Los Angeles Water Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.

6. The Discharger shall report the results of chronic toxicity testing, TRE and TIE as required in the Attachment E, Monitoring and Reporting, section V.

B. Self-Monitoring Reports (SMR's)

1. The Discharger shall electronically submit SMR's using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). The CIWQS Web site will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.

2. The Discharger shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Discharger shall submit quarterly SMR's including the results of all required monitoring using U.S. EPA-approved test methods or other test methods specified in this Order. SMR's are to include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.

3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Table E-5 Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On…	Monitoring Period	SMR Due Date
1/Discharge Event	Permit effective date	January 1 – March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	May 1 August 1 November 1 February 1
2/Year	Closest of January 1 or July 1 following (or on) permit effective date	January 1 through June 30 July 1 through December 31	August 1, February 1
1/Year	January 1 following (or on) permit effective date	January 1 through December 31	February 1

4. **Reporting Protocols.** The Discharger shall report with each sample result the applicable Reporting Level (RL) and the current Method Detection Limit (MDL), as determined by the procedure in 40 C.F.R. part 136.

5. The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

   a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).

   b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ. The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (± a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

c. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.

d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.

6. Compliance Determination. Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Los Angeles Water Board and State Water Board, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).

7. Multiple Sample Data. When determining compliance with an AMEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.

b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

8. The Discharger shall submit SMR's in accordance with the following requirements:

a. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.

b. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDR's; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

C. Discharge Monitoring Reports (DMRs)

As of the effective date of this Order, if the Discharger operates a “minor” facility as designated on page 1 of this Order, submittal of Discharge Monitoring Reports (DMRs) is not required. However, at any time during the term of this Order, the State Water Board or the Regional Water Borad may notify and require the Discharger to electronically submit DMRs.

D. Other Reports

1. **Within 90 days** of the effective date of this permit, the Discharger is required to submit the following to the Los Angeles Water Board:

   a. Initial Investigation TRE workplan

   b. Updated SWPPP

   c. Updated BMPP

   d. Spill Contingency Plan

   The SWPPP, BMPP, and Spill Contingency Plan status shall be reviewed at a minimum once per year and updated as needed to ensure all actual or potential sources of pollutants in wastewater and storm water discharged from the Facility are addressed. All changes or revisions to the SWPPP, BMPP, and Spill Contingency Plan shall be submitted to the Los Angeles Water Board within 30 days of revisions.

2. Within 90 days of the effective date of this Order, the Discharger must submit to the Los Angeles Water Board notification of whether the Discharger will be participating with an organized group of Responsible Parties to complete the regional monitoring required by the Harbor Toxics TMDL for the Los Angeles River Watershed, or if the Discharger will be developing a site specific plan. If developing a site specific plan, that plan is due to the Los Angeles Water Board within12 months from the effective date of this Order. Los Angeles Water Board staff will review the plan and provide an opportunity for public comment. After the receipt of the plan the Executive Officer will comment or approve the plan. The Discharger has six months after the approval to implement the plan. The Discharger or the Responsible Parties shall submit annual implementation reports to the Los Angeles Water Board. The reports shall describe the measures implemented and the progress achieved toward meeting the assigned WLAs and LAs.

ATTACHMENT F – FACT SHEET

CONTENTS

I. Permit Information F-3
II. Facility Description F-4
  A. Description of Wastewater and Biosolids Treatment and Controls F-4
  B. Discharge Points and Receiving Waters F-5
  C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data F-5
  D. Compliance Summary F-7
  E. Planned Changes F-8
III. Applicable Plans, Policies, and Regulations F-8
  A. Legal Authorities F-8
  B. California Environmental Quality Act (CEQA) F-8
  C. State and Federal Laws, Regulations, Policies, and Plans F-8
  D. Impaired Water Bodies on CWA 303(d) List F-10
  E. Other Plans, Polices and Regulations – Not Applicable F-12
IV. Rationale For Effluent Limitations and Discharge Specifications F-13
  A. Discharge Prohibitions F-14
  B. Technology-Based Effluent Limitations F-14
    1. Scope and Authority F-14
    2. Applicable Technology-Based Effluent Limitations F-15
  C. Water Quality-Based Effluent Limitations (WQBEL's) F-16
    1. Scope and Authority F-16
    2. Applicable Beneficial Uses and Water Quality Criteria and Objectives F-16
    3. Reasonable Potential Analysis Methodology F-17
    4. WQBEL Calculations F-20
    5. WQBEL's Based on Basin Plan Objectives F-23
    6. WQBELs Based on the Metals TMDL F-25
  D. Final Effluent Limitation Considerations F-26
    1. Anti-Backsliding Requirements F-27
    2. Antidegradation Policies F-27
    3. Mass-based Effluent Limitations F-27
    4. Stringency of Requirements for Individual Pollutants F-28
    5. Summary of Final Effluent Limitations F-29
  E. Interim Effluent Limitations – Not Applicable F-30
  F. Land Discharge Specifications – Not Applicable F-31
  G. Recycling Specifications – Not Applicable F-31
V. Rationale for Receiving Water Limitations F-31
  A. Surface Water F-31
  B. Groundwater – Not Applicable F-31
VI. Rationale for Provisions F-31
  A. Standard Provisions F-31
  B. Special Provisions F-32
    1. Reopener Provisions F-32
    2. Special Studies and Additional Monitoring Requirements F-32
    3. Best Management Practices and Pollution Prevention F-32
    4. Construction, Operation, and Maintenance Specifications F-33
    5. Special Provisions for Municipal Facilities (POTW's Only) – Not Applicable F-33
    6. Other Special Provisions – Not Applicable F-33
    7. Compliance Schedules – Not Applicable F-33

VII. Rationale for Monitoring and Reporting Requirements F-33
A. Influent Monitoring – Not Applicable F-33
B. Effluent Monitoring F-33
C. Whole Effluent Toxicity Testing Requirements F-33
D. Receiving Water Monitoring F-34
1. Surface Water F-34
2. Groundwater – Not Applicable F-34
E. Other Monitoring Requirements F-34
1. Storm Water Monitoring Requirements F-34
2. SWPPP, BMPP and SPCC Plan Effectiveness Report F-34
VIII. Public Participation F-34
A. Notification of Interested Parties F-34
B. Written Comments F-35
C. Public Hearing F-35
D. Reconsideration of Waste Discharge Requirements F-35
E. Information and Copying F-35
F. Register of Interested Persons F-35
G. Additional Information F-35

TABLES

Table F-1. Facility Information F-3
Table F-2. Historic Effluent Limitations and Monitoring Data F-6
Table F-3. Basin Plan Beneficial Uses F-8
Table F-4. Summary of Technology-based Effluent Limitations – Discharge Point 001 ..... F-15
Table F-5. Applicable Water Quality Criteria F-17
Table F-6. Summary Reasonable Potential Analysis–Discharge Point 001 ..... F-18
Table F-7. Applicable Basin Plan Numeric Water Quality Objectives F-24
Table F-8. Summary of Final Effluent Limitations at Discharge Point 001 ..... F-29

ATTACHMENT F – FACT SHEET

As described in section II.B of this Order, the Los Angeles Water Board incorporates this Fact Sheet as findings of the Los Angeles Water Board supporting the issuance of this Order. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

This Order has been prepared under a standardized format to accommodate a broad range of discharge requirements for Dischargers in California. Only those sections or subsections of this Order that are specifically identified as “not applicable” have been determined not to apply to this Discharger. Sections or subsections of this Order not specifically identified as “not applicable” are fully applicable to this Discharger.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the Facility.

Table F-1. Facility Information

WDID	4B192111004
Discharger	Plains West Coast Terminals, LLC
Name of Facility	Dominguez Hills Tank Farm
Facility Address	2500 E. Victoria Street
	Compton, CA 90220
	Los Angeles County
Facility Contact, Title and Phone	William Senner (562) 728-2056
Authorized Person to Sign and Submit Reports	Ngiabi Gicuhi (562) 728-2358
Mailing Address	5900 Cherry Avenue, Long Beach, CA 90805
Billing Address	SAME
Type of Facility	Industrial, Bulk Fuel Storage Facility
Major or Minor Facility	Minor
Threat to Water Quality	2
Complexity	B
Pretreatment Program	N/A
Recycling Requirements	N/A
Facility Permitted Flow	0.9 million gallons per day(MGD)
Facility Design Flow	N/A
Watershed	Los Angeles River
Receiving Water	Compton Creek
Receiving Water Type	Inland Surface Water

A. Plains West Coast Terminals, LLC (hereinafter Discharger) is the owner and operator of Dominguez Hills Tank Farm (hereinafter Facility), a special petroleum warehousing and storage facility (SIC 4226).

For the purposes of this Order, references to the “discharger” or “permittee” in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Discharger herein.

B. The Facility discharges treated storm water and storm water runoff to Compton Creek, a water of the United States. The Discharger is currently regulated by Order R4-2010-0160, which was adopted on September 2, 2010, and expired on August 10, 2015. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.

Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a watercourse, the Discharger must file a petition with the State Water Board, Division of Water Rights, and receive approval for such a change. The State Water Board retains the jurisdictional authority to enforce such requirements under Water Code section 1211.

C. The Discharger filed a report of waste discharge and submitted an application for reissuance of its WDR's and NPDES permit on February 12, 2015. The application was deemed complete on December 8, 2015**.** A site visit was conducted on March 23, 2015, to observe operations and collect additional data to develop permit limitations and requirements for waste discharge.

II. FACILITY DESCRIPTION

A. Description of Wastewater and Biosolids Treatment and Controls

The Dominguez Hills Tank Farm is a bulk storage and transportation facility for petroleum products (crude, fuel oil, and displacement oil), located at 2500 East Victoria Street, Compton, California. The Facility consists of a 70-acre site which is divided into three primary sections: a "North Tank Farm", a "South Tank Farm", and the north eastern section of the Facility where the operations buildings, main pump pads, metering pump pads, heating pad, retention basin, and on-site water treatment system is located.

The South Tank Farm consists of six above ground storage tanks with capacities ranging from 430,000 barrels (18 million gallons) to 470,000 barrels (20 million gallons). Each of the six tanks has a separate secondary containment section. The North Tank Farm consists of eight above ground storage tanks, with capacities ranging from 44,000 barrels (1.8 million gallons) to 200,000 barrels (8.4 million gallons). All eight storage tanks within the North Tank Farm are in a single secondary containment section.

Contact storm water runoff from both the North and South Tank Farms and associated pumping areas drains to the water retention basin located at the northeast portion of the Facility. The water retention basin consists of a surge reservoir (concrete lined) and a storm water impounding basin (asphalt banks and clay lined). The surge reservoir (primary basin) has an average dimension of 102.5 feet by 104 feet by 13 feet deep, with a holding capacity of approximately 1.04 million gallons. The storm water impounding basin (secondary basin) has an average dimension of 315 feet by 370 feet by 10 feet deep, with a holding capacity of approximately 8.72 million gallons. Together the Facility has a total combined holding capacity of 9.75 million gallons for storm water runoff.

Rainwater is allowed to percolate into the ground or evaporate during most storm events. During heavy rainfall events when the reservoir storage capacity is exceeded, storm water is allowed to drain to the surge reservoir. Prior to draining into the surge reservoir, a visual inspection is performed to make sure there is no oil sheen. If any sheen is noticed, absorbent booms will be deployed to absorb the sheen prior to the collected storm water being released to the primary retention basin where the impacted water will be processed as needed through the wastewater treatment system or disposed off-site.

The on-site treatment system consists of a four chamber sand filter, a four bag (operated in parallel) mechanical filtration chamber, two 8,000 lb activated carbon vessels and two 130

cubic feet ion exchange vessels operated in series. Sampling ports are installed throughout the system piping configuration to monitor specific media performance. An 8-inch flow meter is situated at the final effluent of the system to monitor flow.

Flow can be diverted from the surge reservoir to the impounding basin by opening a valve or from an overflow weir. The accumulated storm water is allowed to percolate into the ground in the impounding basin or evaporate. Only when required (during high storm water accumulation), the storm water is discharged manually after compliance verification.

When an oil storage tank or pipeline is integrity tested, refurbished or upgraded, the hydrostatic test water will be drained to the surge reservoir. Water from fire hydrants is used to perform the hydrostatic test. It is estimated that up to 21 million gallons of hydrostatic test water (based on the greatest holding capacity of any tank) can be discharged to the retention basin when a tank is hydrotested. The storage tank or pipeline can temporarily hold the hydrostatic test water until it is gradually released to the retention basin within several days. The discharge of the hydrostatic test water to Compton Creek is intermittent and will be generated on an as needed basis.

Process wastewater includes wastewater generated from several sources including: tank and pipeline cleaning, equipment wash water, concrete pad wash water, equipment condensate, storm water from vaults and valve boxes, and other localized water drains and vaults at the various tank farms and along the pipelines owned by the Discharger, including the Dominguez Hills Facility. Process wastewater is placed into temporary storage tanks on-site or directly into tanker trucks where it is shipped off-site for treatment by a local Transportation, Storage and Disposal Facility licensed by the Department of Toxics Substance Control. Discharge waters from the Facility do not contain any process water. Historically, Plains has never treated and or discharged process wastewater.

Concurrent discharge of storm water and hydrostatic test water beyond the discharge limit of 0.91 MGD is not expected under ordinary site conditions. This is primarily because the hydrostatic test discharge of tanks is only conducted on new tanks or tanks that undergo major repairs. Both scenarios are rare and therefore able to be coordinated with any storm events. Therefore, this Order permits a maximum discharge flow rate of 0.91 MGD of combined storm water and hydrostatic test water.

B. Discharge Points and Receiving Waters

Combined wastewater consisting of hydrostatic test water and treated storm water is discharged through one discharge point to Compton Creek, a water of the United States, Discharge Point No. 001. The discharge flows three-quarters of a mile in a subsurface storm drain system to Compton Creek, a tributary of the Los Angeles River. The latitude and longitude of Discharge Point 001 is as follows:

Discharge Point 001: Treated storm water runoff, hydrostatic test water, approximate coordinates: Latitude 33º 51’ 44” N, Longitude -118º 13” 21” W.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

Effluent limitations contained in the existing Order for discharges from Discharge Point 001 (Monitoring Location EFF-001) and representative monitoring data from the term of the existing Order are as follows:

Table F-2. Historic Effluent Limitations and Monitoring Data

Parameter	Units	Effluent Limitation		Monitoring Data (From January 2010 – September 30, 2015)	
		Average Monthly	Maximum Daily	Highest Average Monthly Discharge	Highest Daily Discharge
Conventional Pollutants					
Biochemical Oxygen Demand 5-day @ 20 deg. C (BOD)	mg/L	20	30	1.8	1.8
	lbs/day[1]	720	1,081	3.0	3.0
Oil and Grease	mg/L	10	15	ND	ND
	lbs/day[1]	360	540	ND	ND
pH	Standard Units	6.5 - 8.5 [2]		6.7 – 8.1 [2]	
Total Suspended Solids (TSS)	mg/L	50	75	2.0	16
	lbs/day[1]	1,800	2,702	2.2	10
Non-Conventional Pollutants					
Acute Toxicity	% Survival	[3]		[4]	
Settleable Solids	mL/L	--	0.2	--	0.3
Temperature	ºF	--	86	72.9[2]	
Turbidity	NTU	50	75	37	37
Sulfate	mg/L	--	350	--	39
	lbs/day[1]	--	12,600	--	78
Chloride	mg/L	--	150	--	31
	lbs/day[1]	--	5,400	--	62
Phenols	mg/L	--	1.0	--	ND
	lbs/day[1]	--	36	--	ND
Sulfides	mg/L	--	1.0	--	0.064
	lbs/day[1]	--	36	--	0.035
Total Residual Chlorine	mg/L	--	0.1	--	ND
	lbs/day[1]	--	3.6	--	ND
Total Ammonia (as nitrogen)	mg/L	2.3	10	0.448	0.88
	lbs/day[11]	83	363	0.64	0.64
Total Dissolved Solids (TDS)	mg/L	--	1,500	--	220
	lbs/day[1]	--	54,432	--	442
Nitrate-nitrogen (NO3-N)	mg/L	8	--	0.7	--
	lbs/day[1]	290	--	0.24	--
Nitrite-nitrogen (NO2-N)	mg/L	1	--	0.13	--
	lbs/day[1]	36	--	0.07	--
Nitrate-nitrogen + Nitrite-nitrogen (NO3-N + NO2-N)	mg/L	8	--	0.7	--
	lbs/day[1]	290	--	0.25	--
Xylene	mg/L	--	1,750	--	ND
	lbs/day[1]	--	63	--	ND
Total Petroleum	mg/L	--	100	--	0.099

Parameter	Units	Effluent Limitation		Monitoring Data (From January 2010 – September 30, 2015)	
		Average Monthly	Maximum Daily	Highest Average Monthly Discharge	Highest Daily Discharge
Hydrocarbons (Diesel and Waste Oil)	lbs/day[1]	--	3.6	--	ND
Priority Pollutants					
Cadmium, Total Recoverable (Wet-weather)[5]	µg/L	1.5	3.1	ND	0.11[6]
	lbs/day[1]	0.054	0.11	ND	ND[6]
Copper, Total Recoverable (Dry-weather)[5]	µg/L	16	29	9.2[7]	9.2[7]
	lbs/day[1]	0.58	1.0	0.008[7]	0.008[7]
Copper, Total Recoverable (Wet-weather)[5]	µg/L	9.4	17	9.2[7]	9.2[7]
	lbs/day[1]	0.33	0.61	0.008[7]	0.008[7]
Lead, Total Recoverable (Dry-weather)[5]	µg/L	6.9	16	1.2[7]	1.2[7]
	lbs/day[1]	0.25	0.58	0.0004[7]	0.0012[7]
Lead, Total Recoverable (Wet-weather)[5]	µg/L	27	62	1.2[7]	1.2[7]
	lbs/day[1]	0.97	2.2	0.0004[7]	0.0012[7]
Thallium, Total Recoverable (All year)[5]	µg/L	6.3	13	ND	0.21[7]
	lbs/day[1]	0.22	0.46	ND	0.003[7]
Zinc, Total Recoverable (Dry-weather)[5]	µg/L	130	298	100[7]	123[7]
	lbs/day[1]	4.7	11	0.0267[7]	0.13[7]
Zinc, Total Recoverable (Wet-weather)[5]	µg/L	69	159	100[7]	123[7]
	lbs/day[1]	2.5	5.7	0.027[7]	0.13[7]
Benzene	mg/L	--	1.0	--	ND
	lbs/day[1]	--	0.036	--	ND
Ethylbenzene	mg/L	--	680	--	0.31
	lbs/day[1]	--	25	--	0.0004
Toluene	mg/L	--	10	--	0.38[6]
	lbs/day[1]	--	0.36	--	ND
TCDD Equivalents	µg/L	1.4E-08	2.8E-08	ND[7]	ND[7]
	lbs/day[1]	1.0E-10	2.1E-10	ND	ND

ND= All samples were reported at below the method detection limit.
NR = Not Reported.

1 Mass-based effluent limitations are based on a maximum permitted flow rate of 4.32 MGD.
2 Instantaneous minimum and maximum.
3 The average survival in the undiluted effluent for any three (3) consecutive 96-hour static or continuous flow bioassay test shall be at least 90%, and no single test shall produce less than 70% survival.
4 All reported results were 100% survival.
5 Dry-weather effluent limitations are applicable when the maximum daily flow in the Los Angeles River at Willow Street gage station at Wardlow (Wardlow station) is less than 500 cubic feet per second (cfs). Wet-weather effluent limitations are applicable when the maximum daily flow in the Los Angeles River is equal to or greater than 500 cfs. The daily flow

data at Wardlow Station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff.

[6] All detected results were found at concentrations below the minimum level (ML).

[7] Maximum value observed. Not specific to dry or wet weather.

D. Compliance Summary

Data submitted to the Los Angeles Water Board during the term of Order R4-2010-0160 for the period of January 26, 2010 through September 30, 2015, indicate that the Discharger has complied with numeric effluent limitations for Discharge Point No. 001.

E. Planned Changes

The Discharger does not anticipate any changes during the permit term of this Order.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order serves as WDR's pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this Facility to surface waters.

B. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of CEQA, (commencing with section 21100) of Division 13 of the Public Resources Code.

C. State and Federal Laws, Regulations, Policies, and Plans

1. **Water Quality Control Plan.** The Los Angeles Water Board adopted a *Water Quality Control Plan for the Los Angeles Region* (hereinafter Basin Plan) on June 13, 1994 that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Requirements in this Order implement the Basin Plan. In addition, the Basin Plan implements State Water Board Resolution 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to Compton Creek are as follows:

Table F-3. Basin Plan Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Compton Creek (Hydrologic Unit No. 405.15)	Existing: Ground Water Recharge (GWR), Water Contact Recreation (REC-1), Non-Contact Water Recreation (REC-2), Warm Freshwater Habitat (WARM, Wildlife Habitat (WILD), and Wetland Habitat (WET) Potential: Municipal and Domestic Supply (MUN)*

* Asterixed MUN designation are designated under SB 88-63 and RB 89-03. Some designation may be considered for exemptions at a later date. No new effluent limitations were be placed in the permit as a result of this designation.

Title 22 of the California Code of Regulations. The California Department of Public Health established primary and secondary maximum contaminant levels (MCLs) for inorganic, organic, and radioactive contaminants in drinking water. These MCLs are codified in Title 22, California Code of Regulations (Title 22). The Basin Plan (Chapter 3) incorporates Title 22 primary MCLs by reference. This incorporation by reference is prospective including future changes to the incorporated provisions as the changes take effect. Title 22 primary MCLs have been used as bases for effluent limitations in WDRs and NPDES permits to protect the groundwater recharge beneficial use when that receiving groundwater is designated as MUN. Also, the Basin Plan specifies that "*Ground waters shall not contain taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses*." Therefore, the secondary MCL's, are also incorporated into this permit to protect groundwater quality.

2. **Thermal Plan.** The State Water Board adopted a Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface waters. Requirements of this Order implement the Thermal Plan and a white paper developed by Los Angeles Water Board staff entitled Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel. A maximum effluent temperature limitation of 86°F was determined to be appropriate for protection of aquatic life and it is included in this Order.

3. **Ammonia Basin Plan Amendment.** The 1994 Basin Plan provided water quality objectives for ammonia to protect aquatic life, in Table 3-1 through Table 3-4. However, those ammonia objectives were revised on April 25, 2002, by the Los Angeles Water Board with the adoption of Resolution No. 2002-011, Amendment to the Water Quality Control Plan for the Los Angeles Region to Update the Ammonia Objectives for Inland Surface Waters (Including Enclosed Bays, Estuaries and Wetlands) with Beneficial Use Designations for Protection of Aquatic Life. The amendment reflects the revised water quality criteria developed by USEPA in the "1999 Update of Ambient Water Quality Criteria for Ammonia," December 1999. The 1999 Update contains USEPA's most recent freshwater aquatic life criteria for ammonia and supersedes all previous freshwater aquatic life criteria for ammonia. The ammonia Basin Plan amendment was approved by the State Water Board, the Office of Administrative Law, and USEPA on April 30, 2003, June 5, 2003, and June 19, 2003, respectively. Although the revised ammonia water quality objectives may be less stringent than those contained in the 1994 Basin Plan, they are still protective of aquatic life and are consistent with USEPA's 1999 ammonia criteria update.

4. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** U.S. EPA adopted the NTR on December 22, 1992, and later amended it on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, U.S. EPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain federal water quality criteria for priority pollutants.

5. **State Implementation Policy.** On March 2, 2000, the State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the U.S. EPA through the NTR and to the priority pollutant objectives established by the Los Angeles Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the U.S. EPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.

6. **Alaska Rule.** On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards (WQS) become effective for CWA purposes [40 CFR § 131.21, 65 Fed. Reg. 24641 (April 27, 2000)]. Under the revised regulation (also known as the Alaska rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.

7. **Antidegradation Policy.** Federal regulation 40 C.F.R. section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16 ("*Statement of Policy with Respect to Maintaining High Quality of Waters in California*"). Resolution 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Los Angeles Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of 40 C.F.R. section 131.12 and State Water Board Resolution 68-16.

8. **Anti-Backsliding Requirements.** Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed.

9. **Endangered Species Act Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code, §§ 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. §§ 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare, threatened, or endangered species. The discharger is responsible for meeting all requirements of the applicable Endangered Species Act.

D. Impaired Water Bodies on CWA 303(d) List

Section 303(d) of the CWA requires states to identify specific water bodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all CWA section 303(d)-listed water bodies and pollutants, the Los Angeles Water Board plans to develop and adopt total maximum daily

loads (TMDLs) that will specify wasteload allocations (WLAs) for point sources and load allocations (LAs) for non-point sources, as appropriate.

Certain receiving waters in the Los Angeles and Ventura County watersheds do not fully support beneficial uses and therefore have been classified as impaired on the 2012 CWA section 303(d) list and have been scheduled for TMDL development. On June 26, 2015, U.S. EPA approved California's 2012 CWA section 303(d) list of impaired waters and disapproved the omission of mercury in Topaz Lake that met federal listing requirements. On July 30, 2015, U.S. EPA issued its final decision adding Topaz Lake to the Sate's 303(d) list.

The Facility discharges into Compton Creek which is a tributary to Los Angeles River Reaches 2 and 3. Compton Creek is on the 303(d) list for coliform bacteria, copper, lead, toxicity, trash, and pH. Compton Creek is also on the 303(d) list for ammonia, coliform bacteria, copper, lead, nutrients (algae), oil, and trash. The following are developed and adopted TMDLs for the Los Angeles River, to which Compton Creek is a tributary:

Trash TMDL: The Los Angeles River Watershed Trash TMDL was first adopted by the Los Angeles Water Board on September 19, 2001 by Resolution 01-013. The TMDL was approved by the State Water Board on July 16, 2002 and by the Office of Administrative Law (OAL) on July February 19, 2002. U.S. EPA approved it on August 1, 2002. The TMDL became effective on August 28, 2002, with the filing of the Certificate of Fee Exemption with the California Department of Fish and Game.

On June 8, 2006, the Los Angeles Water Board adopted resolution 06-013, to set aside the Trash TMDL in compliance with a court writ of mandate (City of Arcadia et al., Los Angeles Regional Water Quality Control Board et al. (2006) 135 Cal.App.4th 1392.). The writ of mandate required the Los Angeles Water Board to set aside and not implement the TMDL until it had brought it into compliance with the California Environmental Quality Act (CEQA). The Resolution to set aside the TMDL was approved by the State Water Board on July 17, 2006.

The Los Angeles Water Board revised the CEQA documents as directed by the writ of mandate. The TMDL also was revised to include changes agreed upon in the settlement with the City of Los Angeles, Los Angeles County and the Los Angeles Flood Control District. The revised TMDL was adopted by the Los Angeles Water Board by Resolution 2007-012 on August 9, 2007. The revised TMDL was approved by the State Water Board on April 15, 2008, and by OAL on July 1, 2008. U.S. EPA approved the revised TMDL on July 24, 2008. The revised TMDL became effective on September 23, 2008.

The Los Angeles River Trash TMDL identifies storm water discharges as the major source of trash in the Los Angeles River and assigns a final Waste Load Allocation (WLA) of zero trash to the Los Angeles County municipal separate storm sewer system (MS4) and Caltrans National Pollutant Discharge Elimination System (NPDES) permittees. This TMDL will be implemented through Municipal Separate Storm Sewer Systems (MS4) NPDES Permit Program.

The receiving water for discharges from the Dominguez Hills Tank Farm is Compton Creek and is listed on the 303(d) list for trash. Therefore, any discharge of trash in the facilities' storm water discharges will contribute to the impairment. This permit implements requirements for a storm water pollution prevention plan which is expected to minimize/prevent the discharge of trash from the Facility to the Los Angeles River watershed.

Nutrient TMDL for Los Angeles River and its Tributaries: The Los Angeles Water Board adopted Resolution No. 03-009 on July 10, 2003, that amended the Basin Plan to incorporate a TMDL for Nutrients (Nitrogen Compounds and related effects) in the Los Angeles River. The TMDL was approved by the State Water Board and Office of Administrative Law on

November 19, 2003, and February 27, 2004, respectively. The Nutrients TMDL was approved by USEPA on March 18, 2004, and it became effective on March 23, 2004. Subsequently, Resolution No. 03-016 which revised the interim effluent limitations for ammonia was adopted by the Los Angeles Water Board on December 4, 2003. The State Water Board approved the TMDL with Resolution 2004-0014 on March 24, 2004. OAL approved the TMDL on September 27, 2004, and it became effective on the same date. Resolution Nos. 03-009 and 03-016 establish WLAs for the Los Angeles River, to which Compton Creek is a tributary, for total ammonia (nitrogen), nitrate-nitrogen, nitrite-nitrogen, and nitrate-nitrogen plus nitrite-nitrogen. Effluent limitations based on these WLAs have been established in this Order. On December 6, 2012, the Regional Water Board amended the TMDL in Resolution R12-010, which became effective August 7, 2014. The revised TMDL did not change the WLAs applicable to the Facility.

Metals TMDL for Los Angeles River and its Tributaries: The Los Angeles Water Board adopted Resolution No. 2005-006 on June 2, 2005, that amended the Basin Plan to incorporate a TMDL for metals in the Los Angeles River. The State Water Board approved the metals TMDL on October 20, 2005, and OAL approved the TMDL on December 9, 2005. The USEPA approved the metals TMDL on December 22, 2005, and it became effective on January 11, 2006. The metals TMDL establishes numeric water quality targets that are based on objectives established by USEPA in the CTR. An amendment to the metals TMDL (Resolution No. R2007-014) was adopted by the Los Angeles Water Board on September 6, 2007. The State Water Board and OAL approved the metals TMDL, on June 17, 2008, and October 17, 2008, respectively. USEPA approved the metals TMDL on October 14, 2008, and it became effective on October 29, 2008. Resolution No. R2007-014 establishes WLAs in Compton Creek for cadmium, copper, lead, and zinc. This permit implements the conditions of Resolution No. R2007-014.

Bacteria TMDL for Los Angeles River Watershed: The Los Angeles Water Board adopted the Los Angeles River Watershed Bacteria TMDL (referred to hereinafter as the “Bacteria TMDL”), by Resolution R10-007. The TMDL was approved by the State Water Board on November 1, 2011, by OAL on March 21, 2012, and became effective on March 23, 2012, when it was approved by U.S. EPA. The TMDL assigns wet-weather and dry-weather WLAs. Resolution No. R10-007 establishes WLAs in Compton Creek for E. coli. This permit implements the conditions of Resolution No. R10-007.

E. Harbor Toxics TMDL

The Regional Water Board adopted Resolution No. R11-008 on May 5, 2011, that amended the Basin Plan to incorporate the *TMDL for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters* (Harbor Toxics TMDL). The Harbor Toxics TMDL was approved by the State Water Board on February 7, 2012, the OAL on March 21, 2012, and the USEPA on March 23, 2012. The Harbor Toxics TMDL contains requirements applicable to this discharge. Therefore, this Order contains monitoring requirements based on the TMDL.

Responsible parties identified in the Los Angeles River and Tributaries Metals TMDL are responsible for conducting water and sediment monitoring above the Los Angeles River Estuary to determine the river’s contribution to impairments in the Greater Harbor waters. The Discharger shall join a group already formed or develop a site specific monitoring plan. The following component shall be included in the monitoring plan.

1. Water Column Monitoring

Water samples and total suspended solids samples shall be collected at, at least one site during two wet weather events and one dry weather event each year. The first large storm event of the season shall be included as one of the wet weather monitoring events. Water samples and total suspended solid samples shall be analyzed for metals, DDT, PCBs, and PAHs. Sampling shall be designed to collect sufficient volumes of suspended solids to allow for analysis of the listed pollutants in the bulk sediment.

General water chemistry (temperature, dissolved oxygen, pH, and electrical conductivity) and a flow measurement shall be required at each sampling event. General chemistry measurements may be taken in the laboratory immediately following sample collection if auto samplers are used for sample collection or if weather conditions are unsuitable for field measurements.

2. Sediment Monitoring

For sediment chemistry, sediment samples shall be collected at, at least one site every two years for analysis of general sediment quality constituents and the full chemical suite as specified in State Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1 Sediment Quality (SQO Part 1). All samples shall be collected in accordance with SWAMP protocols.

The details of the Monitoring Program including sampling location and all methods shall be specified in the Monitoring and Reporting Program (MRP). The proposed MRP will be reviewed by the Regional Board and the public. After required updates are implemented then the MRP will be approved by the Executive Officer.

3. Quality Assurance Project Plan

The Quality Assurance Project Plan (QAPP) shall describe the project objectives and organization, functional activities, and quality assurance/quality control protocols for the water and sediment monitoring. The QAPP shall include protocols for sample collection, standard analytical procedures, and laboratory certification. All samples shall be collected in accordance with Surface Water Ambient Monitoring Program (SWAMP) protocols.

The details of the Monitoring Program including sampling location and all methods shall be specified in the Monitoring and Reporting Program (MRP). The MRP will be reviewed by the Regional Board and the public. After required updates are implemented then the MRP will be approved by the Executive Officer.

F. Other Plans, Polices and Regulations – Not Applicable

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations in the Code of Federal Regulations: 40 C.F.R. section 122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

The Facility operates a tank farm and receives and ships petroleum products. Total petroleum hydrocarbons, phenols, and oil and grease are constituents commonly present in storm water at industrial facilities associated with tank farms and are therefore pollutants of concern under the Order. Order No. R4-2010-0160 identified BOD, temperature, TSS, pH, turbidity, settleable solids, and sulfides as pollutants of concern. These constituents are commonly present in storm water runoff from industrial sites at elevated levels and remain pollutants of concern. In addition, the list of pollutants of concern is based on constituents that are regulated in the Basin Plan or CTR and were detected in the effluent.

A. Discharge Prohibitions

Discharge Prohibitions in this Order are based on the Federal Clean Water Act, Basin Plan, Water Code, State Water Resources Control Board's plans and policies, California Ocean Plan, U.S. Environmental Protection Agency guidance and regulations, and previous permit provisions.

B. Technology-Based Effluent Limitations

1. Scope and Authority

Section 301(b) of the CWA and implementing U.S. EPA permit regulations at 40 C.F.R. section 122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Best Professional Judgment (BPJ) in accordance with Part 125, section 125.3.

The CWA requires that technology-based effluent limitations be established based on several levels of controls:

a. Best practicable treatment control technology (BPT) represents the average of the best existing performance by well-operated facilities within an industrial category or subcategory. BPT standards apply to toxic, conventional, and non-conventional pollutants.

b. Best available technology economically achievable (BAT) represents the best existing performance of treatment technologies that are economically achievable within an industrial point source category. BAT standards apply to toxic and non-conventional pollutants.

c. Best conventional pollutant control technology (BCT) represents the control from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and oil and grease. The BCT standard is established after considering a two-part reasonableness test. The BCT standard is established after considering the “cost reasonableness” of the relationship between the cost of attaining a reduction in effluent discharge and the benefits that would result, and also the cost effectiveness of additional industrial treatment beyond BPT.

d. New source performance standards (NSPS) represent the best available demonstrated control technology standards. The intent of NSPS guidelines is to set limitations that represent state-of-the-art treatment technology for new sources.

The CWA requires U.S. EPA to develop effluent limitations, guidelines and standards (ELGs) representing application of BPT, BAT, BCT, and NSPS. Section 402(a)(1) of the CWA and 40 C.F.R. section 125.3 authorize the use of best professional judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs are not available for certain industrial categories and/or pollutants of concern. Where BPJ is

used, the Los Angeles Water Board must consider specific factors outlined in 40 C.F.R. section 125.3.

2. Applicable Technology-Based Effluent Limitations

This Order includes technology-based effluent limitations based on BPJ in accordance with 40 C.F.R. section 125.3. Numeric maximum daily effluent limitations (MDELs) for TSS, oil and grease, BOD_5, turbidity, settleable solids, total sulfides, total phenols, and total petroleum hydrocarbons from the existing Order (No. R4-2010-0160) for Discharge Point 001 are included in the Order. The numeric effluent limitations for these pollutants are consistent with technology-based limitations included in other Orders within the State.

Order No. R4-2010-0160 established effluent limitations for sulfides, benzene, toluene, xylene, and ethylbenzene based on existing effluent limitations in Order No. R4-2005-0028. These effluent limitations are more stringent than applicable water quality criteria. Consistent with federal and state anti-backsliding regulations, these effluent limitations have been carried over.

Order R4-2010-0160 required the Discharger to develop and implement a Storm Water Pollution Prevention Plan (SWPPP). This Order will require the Discharger to update and continue to implement, consistent with the existing Order requirements, a SWPPP. The SWPPP will outline site-specific management processes for minimizing storm water runoff contamination and for preventing contaminated storm water runoff from being discharged directly into the storm drain. At a minimum, the management practices should ensure that raw materials do not come into contact with storm water that could be discharged to surface water.

In addition, due to the lack of national ELGs for storm water runoff from tank farm facilities, and pursuant to section 122.44(k), the Los Angeles Water Board will require the Discharger to update their Best Management Practices Plan (BMPP). The BMPP shall be consistent with the requirements of 40 CFR Part 125, Subpart K, and the general guidance contained in the *NPDES Best Management Guidance Document*, U.S. EPA Report No. 600/9-79-045, December 1979 (revised June 1981). The purpose of the BMPP will be to establish site-specific procedures that will ensure proper operation and maintenance of equipment and storage areas, to ensure that unauthorized non-storm water discharges (i.e., spills) do not occur at the Facility. This Order will also require the Discharger to develop and implement a Spill Contingency Plan.

The combination of the SWPPP, BMPP, Spill Contingency Plan, and existing Order limitations based on past performance and reflecting BPJ will serve as the equivalent of technology-based effluent limitations, in the absence of established ELGs, in order to carry out the purposes and intent of the CWA.

Table F-4. Summary of Technology-based Effluent Limitations – Discharge Point 001

Parameter	Units	Effluent Limitations	
		Average Monthly	Maximum Daily
Total Suspended Solids (TSS)	mg/L	50	75
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	mg/L	20	30
Oil and Grease	mg/L	10	15
Turbidity	NTU	50	75
Total Phenols	mg/L	--	1.0
Settleable Solids	ml/L	--	0.2
Sulfides, Total (as S)	mg/L	--	1.0

Parameter	Units	Effluent Limitations	
		Average Monthly	Maximum Daily
Benzene	µg/L	--	1.0
Toluene	µg/L	--	10
Xylene	µg/L	--	1,750
Ethylbenzene	µg/L	--	680
Total Petroleum Hydrocarbons	µg/L	--	100

C. Water Quality-Based Effluent Limitations (WQBEL's)

1. Scope and Authority

CWA section 301(b) and 40 C.F.R. section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) of 40 C.F.R. requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, WQBEL's must be established using: (1) U.S. EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

The process for determining reasonable potential and calculating WQBEL's when necessary is intended to protect the designated uses of the receiving water as specified in the Basin Plan, and achieve applicable water quality objectives and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the CTR and NTR.

The specific procedures for determining reasonable potential for discharges from the Facility, and if necessary for calculating WQBELs, are contained in the SIP.

2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

As noted in section II of the Limitations and Discharge Requirements, the Los Angeles Water Board adopted a Basin Plan that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the Basin Plan. The beneficial uses applicable to Compton Creek are summarized in section III.C.1 of this Fact Sheet. The Basin Plan includes both narrative and numeric water quality objectives applicable to the receiving water.

Priority pollutant water quality criteria in the CTR are applicable to Compton Creek. Table F-5 summarizes the applicable water quality criteria/objective for priority pollutants either limited in the existing permit or reported in detectable concentrations in the effluent or receiving water based on data submitted to the Los Angeles Water Board. These criteria were used in conducting the RPA for this Order.

Table F-5. Applicable Water Quality Criteria

CTR No.	Constituent	Selected Criteria	CTR/NTR Water Quality Criteria		
			Freshwater		Human Health for Consumption of:
			Acute	Chronic	Organisms only
		µg/L	µg/L	µg/L	µg/L
1	Antimony, Total Recoverable	4,300	--	--	4,300
2	Arsenic, Total Recoverable	150	340	150	--
4	Cadmium, Total Recoverable (Dry)	3.47	7.41	3.47	Narrative
4	Cadmium, Total Recoverable (Wet)	3.1	3.1[1]	3.1[1]	
5a	Chromium (III)	296	2,486	296	Narrative
6	Copper, Total Recoverable (Dry)	19	19[1]	19[1]	--
6	Copper, Total Recoverable (Wet)	17	17[1]	17[1]	--
7	Lead, Total Recoverable (Dry)	8.9	8.9[1]	8.9[1]	Narrative
7	Lead, Total Recoverable (Wet)	62	62[1]	62[1]	Narrative
9	Nickel, Total Recoverable	75	679	75	4,600
12	Thallium, Total Recoverable	6.3	--	--	6.3
13	Zinc, Total Recoverable (Dry)	173	173	173	--
13	Zinc, Total Recoverable (Wet)	159	159[1]	159[1]	--
14	Cyanide, Total (as CN)	5.2	22	5.2	--
	TCDD Equivalents	1.4×10^{-8}	--	--	1.4×10^{-8}
19	Benzene	71	--	--	71
33	Ethylbenzene	29,000	--	--	29,000
36	Methylene Chloride	1,600	--	--	1,600
39	Toluene	200,000	--	--	200,000
70	Butylbenzyl Phthalate	5,200	--	--	5,200
75	1,2-Dichlorobenzene	17,000	--	--	17,000
79	Diethyl Phthalate	120,000	--	--	120,000
81	Di-n-butyl Phthalate	12,000	--	--	12,000
112	alpha-Endosulfan	0.056	0.22	0.056	240
119-125	PCBs, Total	0.00017	--	0.014	0.00017
	Total Ammonia	2.3	10.1	2.3	--

1. Waste load allocation

3. Reasonable Potential Analysis Methodology

In accordance with section 1.3 of the SIP, the Los Angeles Water Board conducts a Reasonable Potential Analysis (RPA) for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the permit. If there is a TMDL WLA approved by U.S. EPA, then WQBELs are developed using these WLAs. Otherwise, the Los Angeles Water Board analyzes effluent and receiving water data and identifies the maximum observed effluent concentration (MEC) and maximum background concentration (B) in the receiving water for each constituent. To determine reasonable potential, the MEC and the B are then compared with the applicable water quality objectives (C) outlined in the CTR, NTR, as well as the Basin Plan. For all

pollutants that have a reasonable potential to cause or contribute to an excursion above a state water quality standard, numeric WQBELs are required. The RPA considers water quality criteria from the CTR and NTR, and when applicable, water quality objectives specified in the Basin Plan. To conduct the RPA, the Los Angeles Water Board identifies the MEC and maximum background concentration in the receiving water for each constituent, based on data provided by the Discharger.

Section 1.3 of the SIP provides the procedures for determining reasonable potential to exceed applicable water quality criteria and objectives. The SIP specifies three triggers to complete a RPA:

i. Trigger 1 – if MEC ≥ C, a limit is needed.

ii. Trigger 2 – If the background concentration B > C and the pollutant is detected in the effluent, a limit is needed.

iii. Trigger 3 – If other related information such as CWA 303(d) listing for a pollutant, discharge type, compliance history, or other applicable factors indicate that a WQBEL is required.

Sufficient effluent and receiving water data are needed to conduct a complete RPA. If data are not sufficient, the Discharger will be required to gather the appropriate data to conduct the RPA. Upon review of the data, and if the Los Angeles Water Board determines that WQBEL's are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

The RPA was performed using data collected by the Discharger at Monitoring Location EFF-001 from January 2010 through September 30,2015. This period represents data collected during the term of Order No. R4-2010-0160. Based on the RPA, pollutants that demonstrate reasonable potential include copper, lead, zinc, TCCD-equivalents, PCBs, and total ammonia.

Additionally, the Los Angeles Water Board developed WQBELs for pollutants that have specified WLAs under the Metals TMDL (copper, lead, zinc, and cadmium) and the Nitrogen TMDL (total ammonia, nitrate, nitrite, and nitrate+nitrite). The effluent limitations for these pollutants were established for wet weather discharges regardless of whether or not there is reasonable potential for the pollutants to be present in the discharge at levels that would cause or contribute to a violation of water quality standards. The Los Angeles Water Board developed WQBEL's for these pollutants pursuant to 40 C.F.R. section 122.44(d)(1)(vii), which does not require or contemplate a reasonable potential analysis. Similarly, the SIP at section 1.3 recognizes that reasonable potential analysis is not appropriate if a TMDL has been developed.

As described in section III.D of this Fact Sheet, and in accordance with the Metals and Nitrogen TMDLs, the final WQBEL's were statistically-calculated based on water column final concentration-based WLAs for copper, lead, zinc, cadmium, and total ammonia (see section IV.C.4 below). All other TMDL WLAs (nitrate, nitrite, and nitrite plus nitrate) were translated directly into average monthly effluent limitations (AMELs).

Table F-6. Summary Reasonable Potential Analysis–Discharge Point 001

CTR No.	Constituent	Applicable Water Quality Criteria (C)	Max Effluent Conc. (MEC)	Maximum Detected Receiving Water Conc. (B)	RPA Result - Need Limit?	Reason
1	Antimony, Total	4,300	9.3	2.5	No	MEC<C & B<=C

CTR No.	Constituent	Applicable Water Quality Criteria (C)	Max Effluent Conc. (MEC)	Maximum Detected Receiving Water Conc. (B)	RPA Result - Need Limit?	Reason
	Recoverable					
2	Arsenic, Total Recoverable	150	3.5	2.7	No	MEC<C & B<=C
4	Cadmium, Total Recoverable (Dry)	3.5	0.16	0.26	No	MEC<C & B<=C
4	Cadmium, Total Recoverable (Wet)	3.1	0.16	0.26	Yes	TMDL[1]
5a	Chromium (III)	296	2.3	1.4	No	MEC<C & B<=C
6	Copper, Total Recoverable (Dry)	19	9.2	9.8	Yes	TMDL[1]
6	Copper, Total Recoverable (Wet)	17	9.2	9.8	Yes	TMDL[1]
7	Lead, Total Recoverable (Dry)	8.9	1.2	6.3	Yes	TMDL[1]
7	Lead, Total Recoverable (Wet)	62	1.2	6.3	Yes	TMDL[1]
9	Nickel, Total Recoverable	76	2.4	6.3	No	MEC<C & B<=C
12	Thallium, Total Recoverable	6.3	0.21	0.28	No	MEC<C & B<=C
13	Zinc, Total Recoverable (Dry)	173	180	68	Yes	MEC>C
13	Zinc, Total Recoverable (Dry)	159	180	68	Yes	MEC>C
14	Cyanide, Total (as CN)	5.2	<0.003	0.0025	No	ND in effluent, B<C
--	TCDD Equivalents	1.4×10^{-8}	6.2×10^{-6}	1.0×10^{-5}	Yes	MEC>C
19	Benzene	71	0.25	<1	No	MEC<C & B is ND
33	Ethylbenzene	29,000	0.31	NA	No	MEC<C & no B
36	Methylene Chloride	1,600	<0.88	0.89	No	ND in effluent, B<C
39	Toluene	200,000	0.38	NA	No	MEC<C & no B
70	Butylbenzyl Phthalate	5,200	0.74	0.74	No	MEC<C & B<=C
75	1,2-Dichlorobenzene	17,000	0.16	<0.095	No	MEC<C & B is ND
79	Diethyl Phthalate	120,000	0.097	0.54	No	MEC<C & B<=C
81	Di-n-butyl Phthalate	12,000	1.2	0.46	No	MEC<C & B<=C
112	alpha-Endosulfan	0.056	<0.0019	0.037	No	ND in effluent, B<C
119-125	PCBs, Total	0.00017	0.382	0.4	Yes	MEC>C
--	Total Ammonia	2.3	0.88	NA	Yes	TMDL[1]

CTR No.	Constituent	Applicable Water Quality Criteria (C)	Max Effluent Conc. (MEC)	Maximum Detected Receiving Water Conc. (B)	RPA Result - Need Limit?	Reason
1 An effluent limitation is required for this constituent, regardless of reasonable potential determination in order to implement the Metals TMDL or the Nitrogen TMDL, as applicable.						

4. WQBEL Calculations

a. If reasonable potential exists to exceed applicable water quality criteria or objectives, then a WQBEL must be established in accordance with one or more of the three procedures contained in section 1.4 of the SIP. These procedures include:

i. If applicable and available, use the WLA established as part of a TMDL.

ii. Use of a steady-state model to derive maximum daily effluent limitations (MDELs) and average monthly effluent limitations (AMELs).

iii. Where sufficient effluent and receiving water data exist, use of a dynamic model, which has been approved by the Los Angeles Water Board.

b. The wet-weather WQBELs for copper, lead, zinc, and cadmium are based on the final wet-weather WLAs established in the Metals TMDL and the procedures specified in section 1.4 of the SIP. This Order requires that discharges from the Facility during dry-weather must comply with effluent limitations calculated based on CTR criteria and SIP methods. Within this Order, “dry-weather” is assumed for any discharge that is neither the result of precipitation nor the result of a precipitation event of a magnitude that is less than 500 cubic feet per second (cfs) as measured at Wardlow Station in Los Angeles River. The daily flow data at Wardlow station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff.

The dry-weather WQBELs for copper, lead, and zinc are based on the reasonable potential determination and are calculated according to section 1.4 of the SIP. Additionally, wet weather WQBEL’s for copper, lead, zinc, and cadmium are calculated following the procedures in section 1.4 of the SIP.

c. WQBELs for total ammonia, TCDD equivalents, and PCBs are based on the reasonable potential determination and are calculated according to section 1.4 of the SIP.

d. **WQBELs Calculation Example**

Using dry-weather total recoverable copper and wet-weather total recoverable copper as examples, the following demonstrates how WQBEL’s were established for this Order. The calculation for dry-weather total recoverable copper represents a WQBEL established based on reasonable potential analysis, and the wet-weather total recoverable copper limit calculation is based on WLA’s established in the Metals TMDL. Attachment J summarizes the calculation of all WQBEL’s implementing the Metals TMDL for this Order using the process described below. The process for developing these limits is in accordance with the Harbor Toxics TMDL and section 1.4 of the SIP.

Calculation of aquatic life AMEL and MDEL:

Step 1: For each constituent requiring an effluent limit, identify the applicable water quality criteria or objective. For each criterion, determine the effluent concentration allowance (ECA) using the following steady state equation:

$ECA = C + D(C-B)$ when $C>B$, and

$ECA = C$ when $C \leq B$

Where:
- C = The priority pollutant criterion/objective, adjusted if necessary for hardness, pH and translator
- D = The dilution credit
- B = The ambient background concentration

Due to the fact that WQBELs are being calculated to implement the Harbor Toxics TMDL, this Order does not allow dilution; therefore:

$ECA = C$

When a WLA has been established through a TMDL for a parameter, the applicable WLA is set equal to the ECA.

For dry-weather total recoverable copper, the applicable water quality criteria are:

ECA_{acute} = Not applicable

$ECA_{chronic} = 19.0\ \mu g/L$

For wet-weather total recoverable copper, the ECA is equal to the concentration-based Compton Creek wet-weather final WLA established in the Metals TMDL:

$ECA = WLA_{acute} = 17.0\ \mu g/L$

$ECA = WLA_{chronic}$ = Not applicable

Step 2: For each ECA based or aquatic life criterion/objective, determine the long-term average discharge condition (LTA) by multiplying the ECA by a factor (multiplier). The multiplier is a statistically based factor that adjusts the ECA to account for effluent variability. The value of the multiplier varies depending on the coefficient of variation (CV) of the data set and whether it is an acute or chronic criterion/objective. Table 1 of the SIP provides pre-calculated values for the multipliers based on the value of the CV. Equations to develop the multipliers in place of using values in the tables are provided in section 1.4, Step 3 of the SIP and will not be repeated here.

$LTA_{acute} = ECA_{acute} \times Multiplier_{acute99}$

$LTA_{chronic} = ECA_{chronic} \times Multiplier_{chronic99}$

The CV for the data set must be determined before the multipliers can be selected and will vary depending on the number of samples and the standard deviation of a data set. If the data set is less than 10 samples, or at least 80% of the samples in the data set are reported as non-detect, the CV shall be set equal to 0.6. If the data set is greater than 10 samples, and at least 20% of the samples in the data set are reported as detected, the CV shall be equal to the standard deviation of the data set divided by the average of the data set.

For both dry weather and wet weather total recoverable copper, the following data were used to develop the acute and chronic LTAs using equations provided in Section 1.4, Step 3 of the SIP (Table 1 of the SIP also provides this data up to three decimals):

No. of Samples	CV	ECA Multiplier$_{acute}$	ECA Multiplier$_{chronic}$
26	0.674	0.29	0.49

Dry weather total recoverable copper:

LTA_{acute} = Not Applicable

$LTA_{chronic}$ = 19.0 µg/L x 0.49 = 9.35 µg/L

Note that for wet-weather total recoverable copper, the TMDL WLA is based on acute criterion, and therefore only acute multipliers will be used to develop the wet weather effluent limitations.

Wet weather total recoverable copper:

$LTA_{wet\ weather}$ = 17.0 µg/L x 0.29 = 4.94 µg/L

Step 3: Select the most limiting (lowest) of the LTA.

For dry-weather total recoverable copper, the most limiting LTA is LTA_{acute}

$LTA_{dry\ weather}$ = $LTA_{chronic}$ = 9.35 µg/L

For wet-weather total recoverable copper, since only a wet-weather LTA is calculated, no comparison is made.

$LTA_{wet\ weather}$= LTA_{acute} = 4.94 µg/L

Step 4: Calculate the WQBEL's by multiplying the LTA by a factor (multiplier). WQBEL's are expressed as AMEL and MDEL. The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis, the CV of the data set, the number of samples (for AMEL) and whether it is a monthly or daily limit. Table 2 of the SIP provides pre-calculated values for the multipliers based on the value of the CV and the number of samples. Equations to develop the multipliers in place of using values in the tables are provided in section 1.4, Step 5 of the SIP and will not be repeated here.

$AMEL_{aquatic\ life}$ = LTA x $AMEL_{multiplier95}$

$MDEL_{aquatic\ life}$ = LTA x $MDEL_{multiplier99}$

AMEL multipliers are based on a 95th percentile occurrence probability, and the MDEL multipliers are based on the 99th percentile occurrence probability. If the number of samples is less than four (4), the default number of samples to be used is four (4).

For both dry-weather and wet-weather total recoverable copper, the following data were used to develop the AMEL and MDEL for effluent limitations using equations provided in section 1.4, Step 5 of the SIP:

No. of Samples Per Month	CV	$Multiplier_{MDEL99}$	$Multiplier_{AMEL95}$
4	0.84	3.44	1.63

Dry weather total recoverable copper:

AMEL = 9.35 µg/L x 1.63 = 15 µg/L

MDEL = 9.35 µg/L x 3.44 = 32 µg/L

Wet-weather total recoverable copper:

AMEL = 4.94 µg/L x 1.63 = 8.0 µg/L

MDEL = 4.94 µg/L x 3.44 = 17 µg/L

Step 5: For the ECA based on human health, set the AMEL equal to the $ECA_{human\ health}$

$AMEL_{human\ health} = ECA_{human\ health}$

In the case of total recoverable copper, there are no human health criteria. Therefore, there will be no AMEL or MDEL calculated for human health criteria. For demonstration, the calculated effluent limitations for PCBs are shown.

For PCBs,

$AMEL_{human\ health}$ = 0.00017 µg/L

Step 6: Calculate the MDEL for human health by multiplying the AMEL by the ratio of $Multipler_{MDEL}$ to the $Multiplier_{AMEL}$. Table 2 of the SIP provides pre-calculated ratios to be used in this calculation based on the CV and the number of samples.

$MDEL_{human\ health} = AMEL_{human\ health} \times (Multiplier_{MDEL} / Multiplier_{AMEL})$

For PCBs, the following data were used to develop the $MDEL_{human\ health}$:

No. of Samples Per Month	CV	$Multiplier_{MDEL\ 99}$	$Multiplier_{AMEL\ 95}$	Ratio
4	0.6	3.11	1.55	2.01

For total PCBs:

$MDEL_{human\ health}$= 0.00017 µg/L x 2.01 = 0.00034 µg/L

Step 7: Select the lower of the AMEL and MDEL based on aquatic life and human health criteria as the WQBEL for the Order.

For the parameters subject to the LA River Metals TMDL, such as cadmium, copper, lead, and zinc, a comparison is not necessary and the effluent limitations are applied directly.

Because there are no applicable aquatic life criteria for PCBs, the AMEL and MDEL based on human health criteria are applicable.

5. WQBEL's Based on Basin Plan Objectives

Applicable Basin Plan objectives are summarized in the following table:

Table F-7. Applicable Basin Plan Numeric Water Quality Objectives

Constituent	Units	Water Quality Objective
pH	standard units	The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.
Bacteria	MPN/ 100 ml	Fresh Waters Designated for Water Contact Recreation (REC-1) Geometric Mean Limits *E. coli* density shall not exceed 126/100 ml.. Single Sample Limits *E. coli* density shall not exceed 235/100 ml. High Flow suspension does not apply to Compton Creek.
Dissolved Oxygen	mg/L	The mean annual dissolved oxygen concentration of all waters shall be greater than 7.0 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations.
Total Residual Chlorine	mg/L	Chlorine residual shall not be present in surface water discharges at concentrations that exceed 0.1 mg/L and shall not persist in the receiving waters at any concentration that causes impairment of beneficial uses.
Temperature	ºF	The Basin Plan identifies numeric temperature objectives consistent with the Thermal Plan. A white paper developed by Los Angeles Water Board staff entitled "*Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region"*. The paper identifies 86°F as protective of the beneficial uses of the receiving water.
Turbidity	NTU	Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20 percent. Where natural turbidity is greater than 50 NTU increases shall not exceed 10 percent.

a. **pH.** This Order includes effluent limitations at Discharge Point 001 for pH to ensure compliance with Basin Plan Objectives for pH.

b. **Ammonia.** Effluent ammonia monitoring data at EFF-001 from January 26, 2010 through September 30, 2015 exhibited a maximum concentration of 0.88 mg/L. Because the effluent concentration exhibits reasonable potential to exceed the Nutrient TMDL, effluent limitations for ammonia at Discharge Point 001 are included in this Order. The effluent limitations are calculated using the procedures described in this Fact Sheet section VI.C.4 and are presented in Attachment J.

c. **Bacteria.** Compton Creek is listed as impaired for bacteria. The *Los Angeles River Watershed TMDL* (referred to hereinafter as the "Bacteria TMDL") identifies storm water to be the major source of bacteria impairment. The Discharger is required to monitor effluent for *E.coli* bacteria to assess the potential for causing or contributing to an exceedance of the water quality objectives.

d. **Dissolved Oxygen.** This Order addresses dissolved oxygen through receiving water limitations and monitoring requirements.

e. **Temperature.** A white paper developed by Los Angeles Water Board Staff, *Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region*, evaluated the optimum temperatures for aquatic species routinely available in surface water bodies within the Los Angeles Region including: steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam and blue mussel. A maximum effluent temperature limitation of 86°F was determined to be appropriate for protection of aquatic life and is included in this Order. This Order addresses the water quality objective for temperature, by establishing effluent limitations at Discharge Point 001 based on the interpretation of

the Thermal Plan and the White Paper, as described in section III.C.2 of this Fact Sheet.

f. **Total Residual Chlorine.** This Order contains a maximum daily effluent limitation for chlorine of 0.1 mg/L which is protective of the Basin Plan water quality objective.

g. **Total Suspended Solids.** The Basin Plan requires that, "Waters shall not contain suspended or settleable material in concentrations that cause nuisance or adversely affect beneficial uses." This narrative objective has been translated into a numeric effluent limit, based on U.S. EPA's *Quality Criteria for Water* (commonly known as the "Gold Book"). In the Gold Book, U.S. EPA notes that "In a study downstream from a discharge where inert suspended solids were increased to 80 mg/L, the density of macroinvertebrates decreased by 60 percent…". This indicates that suspended solids concentrations of 80 mg/L in the receiving water resulted in adverse effects to aquatic life. A technology-based effluent limitation of 75 mg/L was included in Order R4-2010-0160 for Discharge Point 001 and is being carried forward in this Order. This technology-based effluent limitation of 75 mg/L is protective of the Basin Plan narrative water quality objective for solids.

h. **Turbidity.** This Order applies the water quality objective for turbidity as a receiving water limitation.

6. WQBELs Based on the Metals TMDL

The Metals TMDL assigns WLAs for dry-weather and wet-weather conditions, based on the flow in the river. Within this Order, "dry-weather" is assumed for any discharge that is neither the result of precipitation nor the result of a precipitation event of a magnitude that is less than 500 cubic feet per second (cfs) as measured at Wardlow Station in Los Angeles River. The daily flow data at Wardlow station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff. The dry- and wet-weather WLAs for copper, lead, zinc, and cadmium were translated into effluent limitations using SIP procedures (see section IV.D.4).

7. WQBELs Based on the Bacteria TMDL

The Bacteria TMDL assigns wet-weather and dry-weather WLAs. The definition of dry and wet weather, as used in this TMDL, differs from the criteria employed in the Los Angeles River Metals TMDL. In the Bacteria TMDL, "wet weather" is defined as "any day in which 0.1 inch or more of rain occurs and the three days following the rain event." The TMDL identifies storm water to be the major source of bacteria impairment and the implementation plan, which includes a bacteria Load Reduction Strategy (LRS), is focused on the MS4 and Caltrans storm water NPDES permittees. The TMDL recognizes that the Basin Plan provides for a suspension of REC-1 and REC-2 beneficial uses, and the corresponding water quality objectives, in some engineered channels. Suspension of the REC-1 and REC-2 beneficial uses does not apply to the Compton Creek. Individual NPDES permitees are assigned waste load allocations of zero (0) days of allowable exceedances of a single sample target for both dry and wet weather and no exceedances of the geometric mean target. Compliance with an effluent limit based on the water quality objective can be used to demonstrate compliance with the WLA. The water quality objectives applicable to Compton Creek are a geometric-mean E. coli density limit of 126/100 ml and a single-sample E. coli density limit of 235/100 ml. These water quality objectives are applied as receiving water limitations.

8. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of

response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative "no toxics in toxic amounts" criterion while implementing numeric criteria for toxicity. There are two types of WET tests: acute and chronic. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental responses by aquatic organisms. Detrimental response includes, but is not limited to, decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

Order R4-2010-0160 contained acute toxicity limitations and monitoring requirements in accordance with the Basin Plan, in which the acute toxicity objective for discharges dictates that the average survival in undiluted effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, with no single test having less than 70% survival. For the period of January 26, 2010 through September 30, 2015 effluent acute toxicity monitoring results were 100% survival for all sample events.

In 2010, USEPA endorsed the peer-reviewed Test of Significant Toxicity (TST) hypothesis testing approach in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010) as an improved hypothesis-testing tool to evaluate data from USEPA's toxicity test methods. The TST hypothesis testing approach more reliably identifies toxicity—in relation to the chronic (0.25 or more) and acute (0.20 or more) mean responses of regulatory management concern—than the current no observed effect concentration (NOEC) hypothesis-testing approach. TST results are also more transparent than the point estimate model approach used for acute toxicity that is not designed to address the question of statistical uncertainty around the modeled toxicity test result in relation to the effect level of concern. The TST is the superior approach for addressing statistical uncertainty when used in combination with USEPA's toxicity test methods and is implemented in federal permits issued by USEPA Region 9.

The TST's null hypothesis for chronic toxicity is:

H_0: Mean response (In-stream Waste Concentration (IWC) in % effluent)

≤ 0.75 mean response (Control).

Results obtained from a single-concentration chronic toxicity test are analyzed using the TST approach and an acceptable level of chronic toxicity is demonstrated by rejecting the null hypothesis and reporting "Pass" or "P".

The chronic toxicity IWC for Discharge Point 001 is 100/(0+1) = 100 percent effluent.

Order R4-2010-0160 included effluent limitations for acute toxicity. This Order establishes a chronic toxicity limitation which replaces the previous, acute toxicity limit. For the discharge covered under this Order, the chronic toxicity limit provides an equal or greater level of protection than the acute toxicity limitation. As such, a chronic toxicity effluent limitation is included in this Order to ensure that the receiving water meets the Basin Plan narrative water quality objective for toxicity.

D. Final Effluent Limitation Considerations

Effluent limitations for cadmium, copper, lead and zinc for both wet-weather and dry-weather are based on the Metals TMDL for the Los Angeles River. Also included are effluent

limitations for ammonia-nitrogen, nitrate-nitrogen, nitrite-nitrogen, and nitrate-nitrogen plus nitrite-nitrogen which are based on the Nutrients TMDL for the Los Angeles River. Effluent limitations for residual chlorine, TDS, sulfate and chloride, consistent with the water quality objectives contained in the Basin Plan are also included and this Order carries forward effluent limitations from the existing permit (e.g., TSS, settleable solids, BOD, oil and grease, turbidity, phenols, sulfides, benzene, toluene, ethylbenzene, xylene and total petroleum hydrocarbons).

This Order discontinues effluent limitations for thallium at Discharge Point 001. Thallium concentrations did not exhibit reasonable potential to cause or contribute to an exceedance of the water quality objectives. New effluent limitations are established based on CTR and SIP procedures for pollutants that exhibited reasonable potential (TCDD equivalents, PCBs) based on the most current sampling data set. Refer to Attachment J for a summary of the RPA and associated effluent limitation calculations.

1. Anti-Backsliding Requirements

Sections 402(o) and 303(d)(4)(a) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. This Order includes an MDEL for copper (dry weather) that is higher than in Order R4-2010-0160 due to a change in the CV. However, the copper (dry weather) AMEL in this Order is lower than in Order R4-2010-0160. The effluent limitations are statistically calculated and based on new information included in the TMDL, which has been developed to ensure that the receiving water is able to meet the beneficial uses.

Order R4-2010-0160 contained an acute toxicity effluent limitation in accordance with the Basin Plan's narrative objective for toxicity. This Order includes a chronic toxicity effluent limitation which is assessed using the TST statistical approach which, under this testing framework, is protective of the Basin Plan's narrative objective for toxicity. The chronic toxicity limitation is more stringent than the acute toxicity limitation. It addresses the acute toxicity endpoint, mortality, as well as decreases in growth and reproduction.

2. Antidegradation Policies

Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16. Resolution 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Los Angeles Water Board's Basin Plan and the SIP implement, and incorporate by reference, both the State and federal antidegradation policies. Compliance with these requirements will result in the use of best practicable treatment or control of the discharge.

This Order does not provide for an increase in the permitted design flow or allow for a reduction in the level of treatment. The final limitations in this Order, which include concentration based and mass based limitations, hold the discharger to performance levels that will not cause or contribute to water quality impairment or degradation of water quality. Therefore, the permitted discharge is consistent with the antidegradation provision of section 131.12 and State Water Board Resolution 68-16.

3. Mass-based Effluent Limitations

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limitations. 40 C.F.R.

122.45(f)(1) requires that all permit limitations, standards or prohibitions be expressed in terms of mass units except under the following conditions: (1) for pH, temperature, radiation or other pollutants that cannot appropriately be expressed by mass limitations; (2) when applicable standards or limitations are expressed in terms of other units of measure; or (3) if in establishing technology-based permit limitation on a case-by-case basis, limitation based on mass are infeasible because the mass or pollutant cannot be related to a measure of production.

Mass-based effluent limitations are established using the following formula:

Mass (lbs/day) = flow rate (MGD) x 8.34 x effluent limitation (mg/L)

where: Mass = mass limitation for a pollutant (lbs/day)

Effluent limitation = concentration limit for a pollutant (mg/L)

Flow rate = discharge flow rate (MGD)

According to the Report of Waste Discharge submitted by the Discharger, the maximum flow from the storm water treatment system to Discharge Point 001 is 0.91 MGD. As such, the mass-based effluent limitations applicable Discharge point 001 will be based on these flows.

4. Stringency of Requirements for Individual Pollutants

This Order contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD, TSS, oil and grease, sulfides, turbidity, phenols, and total petroleum hydrocarbons. Restrictions on these pollutants are discussed in section IV.B of the Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

WQBELs have been derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant WQBELs were derived from the CTR, the CTR is the applicable standard pursuant to 40 C.F.R. section 131.38. The procedures for calculating the individual WQBELs for priority pollutants are based on the CTR implemented by the SIP, which was approved by U.S. EPA on May 18, 2000. Most beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by U.S. EPA prior to May 30, 2000. Any water quality objectives and beneficial uses submitted to U.S. EPA prior to May 30, 2000, but not approved by U.S. EPA before that date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to 40 C.F.R. section 131.21(c)(1). The remaining water quality objectives and beneficial uses implemented by this Order were approved by U.S. EPA and are applicable water quality standards pursuant to section 131.21(c)(2). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

5. Summary of Final Effluent Limitations

Table F-8. Summary of Final Effluent Limitations at Discharge Point 001

Parameter	Units	Effluent Limitations				Basis[1]
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	
Conventional Pollutants						
BOD	mg/L	20	30	--	--	E, BPJ
	lbs/day[2]	152	228	--	--	
Oil and Grease	mg/L	10	15	--	--	E, BPJ
	lbs/day[2]	76	114	--	--	
pH	standard units	--	--	6.5	8.5	E, BP
TSS	mg/L	50	75	--	--	E, BPJ
	lbs/day[2]	379	569	--	--	
Non-Conventional Pollutants						
Chronic Toxicity	Pass or Fail for TST approach	[3]				BP
E. coli	MPN/100 mL	[4]	[5]	--	--	TMDL
Ammonia Nitrogen, Total (as N)	mg/L	1.8	4	--	--	E, TMDL, BP
	lbs/day[2]	13	30	--	--	
Chloride	mg/L	--	150	--	--	E, Basin Plan
	lbs/day[2]	--	1,138	--	--	
Nitrate-nitrogen (as N)	mg/L	8.0	--	--	--	E, TMDL
	lbs/day[2]	61	--	--	--	
Nitrite-nitrogen (as N)	mg/L	1.0	--	--	--	E, TMDL
	lbs/day[2]	7.6	--	--	--	
Nitrate-nitrogen + Nitrite-nitrogen (as N)	mg/L	8.0	--	--	--	E, TMDL
	lbs/day[2]	61	--	--	--	
Phenols	mg/L	--	1.0	--	--	E, BPJ
	lbs/day[2]	--	7.6	--	--	
Settleable Solids	ml/L	--	0.2	--	--	E, BPJ
Sulfate	mg/L	--	350			E, BP
	lbs/day[2]	--	2,656			
Sulfides	µg/L	--	1.0	--	--	E, BPJ
	lbs/day[2]	--	7.6	--	--	
Temperature	Degrees F	--	--	--	86	E, TP
Total Dissolved Solids	mg/L	--	1,500	--	--	E, BP
	lbs/day[2]	--	11,384	--	--	
Total Petroleum Hydrocarbons	µg/L	--	100	--	--	E, BPJ
	lbs/day[2]	--	759	--	--	
Total Residual Chlorine	mg/L	--	0.1	--	--	E, BP
	lbs/day[2]	--	0.76	--	--	
Turbidity	NTU	--	75	--	--	E, BPJ
Ethylbenzene	µg/L	--	680	--	--	E, BPJ
	lbs/day[2]	--	5,160.79	--	--	
Benzene	µg/L	--	1.0	--	--	E, BPJ

Parameter	Units	Effluent Limitations				Basis[1]
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	
	lbs/day[2]	--	7.59	--	--	
Toluene	µg/L	--	10	--	--	E, BPJ
	lbs/day[2]	--	75.89	--	--	
Xylene	µg/L	--	1,750	--	--	E, BPJ
	lbs/day[2]	--	13,281	--	--	
Priority Pollutants						
Cadmium, Wet Weather[6]	µg/L	1.5	3.1	--	--	E, TMDL, CTR
	lbs/day[2]	0.011	0.024	--	--	
Copper, Total Recoverable, Wet Weather[6]	µg/L	8.0	17	--	--	TMDL, CTR
	lbs/day[2]	0.061	0.13	--	--	
Copper, Total Recoverable, Dry Weather[6]	µg/L	15	32	--	--	TMDL, CTR
	lbs/day[2]	0.11	0.24	--	--	
Lead, Total Recoverable, Wet Weather[6]	µg/L	22	62	--	--	TMDL, CTR
	lbs/day[2]	0.17	0.47	--	--	
Lead, Total Recoverable, Dry Weather[6]	µg/L	5.9	16	--	--	TMDL, CTR
	lbs/day[2]	0.045	0.12	--	--	
PCBs, Total[7]	µg/L	0.00017	0.00034	--	--	CTR
	lbs/day[2]	1.3×10^{-6}	2.6×10^{-6}	--	--	
TCDD Equivalents[8]	µg/L	1.4×10^{-8}	2.8×10^{-8}	--	--	CTR
	lbs/day[2]	1.1×10^{-10}	2.1×10^{-10}	--	--	
Zinc, Total Recoverable, Wet Weather[6]	µg/L	57	159	--	--	TMDL, CTR
	lbs/day[2]	0.43	1.2	--	--	
Zinc, Total Recoverable, Dry Weather[6]	µg/L	74	206	--	--	TMDL, CTR
	lbs/day[2]	0.56	1.6	--	--	

1 E = Existing Order; BPJ = Best Professional Judgment; BP = Basin Plan; TMDL = Total Maximum Daily Load (Metals TMDL, Nutrients TMDL, or Bacteria TMDL); CTR = California Toxic Rule; SIP = State Implementation Policy; WP = White Paper

2 Mass loading limitations are based on the design flow of the storm water treatment plant at Discharge Point 001 (0.91 MGD) and are calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

3 The maximum daily effluent limitation (MDEL) is exceeded when a toxicity test results in a “fail,” and the percent effect is greater than or equal to 0.50. The median monthly effluent limitation (MMEL) is exceeded when the median result (i.e. two out of three) is a “fail.”

4 Geometric mean of 126/100 mL.

5 Single sample maximum of 235/100 mL.

6 Within this Order, “dry-weather” is assumed for any discharge that is neither the result of precipitation nor the result of a precipitation event of a magnitude that is less than 500 cubic feet per second (cfs) as measured at Wardlow Station in Los Angeles River. The daily flow data at Wardlow station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff.

7 Total PCBs (polychlorinated biphenyls) means the sum of chlorinated biphenyls whose analytical characteristics resembles those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.

[8] TCDD equivalents shall be calculated using the following formula, where the MLs and the toxicity equivalency factors (TEFs) are as listed in the Table below. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating TCDD equivalents, the Discharger shall set congener concentrations below the MLs to zero. U.S. EPA method 1613 may be used to analyze dioxin and furan congeners.

Dioxin-TEQ (TCDD equivalents) = $\Sigma(Cx \times TEFx)$
where: Cx = concentration of dioxin or furan congener x
TEFx= TEF for congener x

Congeners	Minimum Levels (pg/L)	Toxicity Equivalence Factor (TEF)
2,3,7,8 - tetra CDD	10	1.0
1,2,3,7,8 - penta CDD	50	1.0
1,2,3,4,7,8 - hexa CDD	50	0.1
1,2,3,6,7,8 - hexa CDD	50	0.1
1,2,3,7,8,9 - hexa CDD	50	0.1
1,2,3,4,6,7,8 - hepta CDD	50	0.01
Octa CDD	100	0.0001
2,3,7,8 - tetra CDF	10	0.1
1,2,3,7,8 - penta CDF	50	0.05
2,3,4,7,8 - penta CDF	50	0.5
1,2,3,4,7,8 - hexa CDF	50	0.1
1,2,3,6,7,8 - hexa CDF	50	0.1
1,2,3,7,8,9 - hexa CDF	50	0.1
2,3,4,6,7,8 - hexa CDF	50	0.1
1,2,3,4,6,7,8 - hepta CDFs	50	0.01
1,2,3,4,7,8,9 - hepta CDFs	50	0.01
Octa CDF	100	0.0001

E. Interim Effluent Limitations – Not Applicable

F. Land Discharge Specifications – Not Applicable

G. Recycling Specifications – Not Applicable

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

The Basin Plan contains numeric and narrative water quality objectives applicable to all surface waters within the Los Angeles Region. Water quality objectives include an objective to maintain the high quality waters pursuant to federal regulations (40 C.F.R. section 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in this Order are included to ensure protection of beneficial uses of the receiving water. If there is reasonable potential or a U.S. EPA-approved TMDL WLA, then WQBELs are included in this Order to ensure protection of water quality standards.

B. Groundwater – Not Applicable

VI. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 C.F.R. section 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 C.F.R. section 122.42, are provided in Attachment D. The Discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42.

Sections 122.41(a)(1) and (b) through (n) of 40 C.F.R. establish conditions that apply to all state-issued NPDES permits. These conditions must be incorporated into the permits either expressly or by reference. If incorporated by reference, a specific citation to the regulations must be included in the Order. Section 123.25(a)(12) of 40 C.F.R. allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 C.F.R. section 123.25, this Order omits federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference Water Code section 13387(e).

B. Special Provisions

1. Reopener Provisions

These provisions are based on section 123 and Order R4-2010-0160. The Los Angeles Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new federal regulations, modification in toxicity requirements, or adoption of new regulations by the State Water Board or Los Angeles Water Board, including revisions to the Basin Plan.

2. Special Studies and Additional Monitoring Requirements

a. **Initial Investigation Toxicity Reduction Evaluation (TRE) Workplan.** This provision is based on section 4 of the SIP, Toxicity Control Provisions, which establishes minimum toxicity control requirements for implementing the narrative toxicity objective for aquatic life protection established in the basin plans of the State of California.

3. Best Management Practices and Pollution Prevention

a. **Storm Water Pollution Prevention, Best Management Practices, and Spill Contingency Plans**

i. **Storm Water Pollution Prevention Plan (SWPPP).** This Order requires the Discharger to update, as necessary, and continue to implement a SWPPP. The SWPPP will outline site-specific management processes for minimizing storm water runoff contamination and for preventing contaminated storm water runoff from being discharged directly into the receiving water. At a minimum, the management practices should ensure that raw materials and chemicals do not come into contact with storm water. SWPPP requirements are included as Attachment G, based on 40 CFR 122.44(k).

ii. **Best Management Practices Plan (BMPP).** This Order requires the Discharger to develop and implement a BMPP. The BMPP may be included as a component of the SWPPP. The purpose of the BMPP is to establish site-specific procedures that ensure proper operation and maintenance of equipment, to ensure that unauthorized non-storm water discharges (i.e., spills) do not occur at the Facility. The BMPP shall incorporate the requirements contained in Attachment G and shall address Discharge Point 001, as well as the site in general. Attachment G requires a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges.

iii. **Spill Contingency Plan (SCP).** This Order requires the Discharger to develop and implement a SCP to control the discharge of pollutants. The SCP shall include a technical report on the preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events at the site. This provision is included in this Order to

minimize and control the amount of pollutants discharged in case of a spill. The SCP shall be site specific and shall cover all areas of the Facility. A Spill Prevention, Control, and Countermeasure (SPCC) Plan may satisfy this requirement.

4. Construction, Operation, and Maintenance Specifications

a. This provision is based on the requirements of 40 C. F. R section 122.41(e).

5. Special Provisions for Municipal Facilities (POTW's Only) – Not Applicable

6. Other Special Provisions – Not Applicable

7. Compliance Schedules – Not Applicable

VII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

CWA section 308 and 40 C.F.R. sections 122.41(h), (j)-(*l*), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Los Angeles Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The Monitoring and Reporting Program (MRP), Attachment E of this Order establishes monitoring, reporting, and recordkeeping requirements that implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this Facility.

A. Influent Monitoring – Not Applicable

B. Effluent Monitoring

1. Discharge Points 001

a. Monitoring for those pollutants expected to be present in the Monitoring Location EFF- 001 at Discharge Point No. 001 will be required as shown in the MRP. Monitoring requirements for pollutants with effluent limitations are once per discharge event, but not more than once per week.

b. The SIP states that the Los Angeles Water Board will require periodic monitoring for pollutants for which criteria or objectives apply and for which no effluent limitations have been established. This Order requires the Discharger to conduct annual monitoring for the remaining CTR priority pollutants at Discharge Point 001. The Los Angeles Water Board will use the additional data to conduct an RPA and determine if additional WQBELs are required. The Los Angeles Water Board may reopen the permit to incorporate additional effluent limitations and requirements, if necessary.

c. The MRP of this Order includes a new requirement to calculate and report total batch flow from discharge events in addition to the daily average flow. The total flow provides additional information on the pollutant mass discharged over the course of a storm event.

C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth. Chronic toxicity is a more stringent requirement than acute toxicity. A chemical at a low concentration can have chronic effects but no acute effects. For this permit, chronic toxicity in the discharge is limited and evaluated using USEPA's 2010 TST hypothesis testing approach.

D. Receiving Water Monitoring

1. Surface Water

This Order includes receiving water limitations and therefore, monitoring requirements are included in the MRP to determine compliance with the receiving water limitations established in the Limitations and Discharge Requirements. The Facility is also required to perform general observations of the receiving water when discharges occur and report the observations in the monitoring report. Attention shall be given to the presence or absence of: floating or suspended matter, discoloration, aquatic life, visible film, sheen or coating, and fungi, slime, or objectionable growths.

According to the SIP, if possible, the Discharger shall monitor the upstream receiving water for the CTR priority pollutants, to determine reasonable potential. Accordingly, the Los Angeles Water Board is requiring that the Discharger conduct upstream receiving water monitoring of the CTR priority pollutants at Monitoring Location RSW-001. The Discharger must analyze temperature, hardness, pH, ammonia, and conductivity of the upstream receiving water at the same time the samples are collected for priority pollutant analysis.

The Discharger is required to report the maximum daily flow in the Los Angeles River, at the Los Angeles County Department of Public Works' Willow Street Gage Station at Wardlow. The daily flow data at Wardlow station is posted on the Department of Public Works, Los Angeles County web site at http://ladpw.org/wrd/report/0506/runoff/. This information is necessary to determine the wet-weather and dry-weather condition of the river, as defined in the Los Angeles River Metals TMDL.

2. Groundwater – Not Applicable

E. Other Monitoring Requirements

1. Storm Water Monitoring Requirements

Because the discharge is comprised, in part, of storm water, the Discharger is required to measure and record the rainfall each day of the month. The Discharger is also required to conduct visual observations of all storm water discharges in the vicinity of the discharge to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity, and odor.

2. SWPPP, BMPP and SPCC Plan Effectiveness Report

The Discharger is required by Special Provision VI.C.2 of the Order to update and implement a SWPPP, BMPs, and SPCC Plan. This Order requires the Discharger to report on the effectiveness of the plans and update them as needed to ensure all actual or potential sources of pollutants in the wastewater and storm water discharged from the Facility are addressed.

VIII. PUBLIC PARTICIPATION

The Los Angeles Water Board has considered the issuance of WDR's that will serve as an NPDES permit for the Dominguez Hills Tank Farm Los Angeles Lubricants Terminal. As a step in the WDR adoption process, the Los Angeles Water Board staff has developed tentative WDR's and has encouraged public participation in the WDR adoption process.

A. Notification of Interested Parties

The Los Angeles Water Board notified the Discharger and interested agencies and persons of its intent to prescribe WDR's for the discharge and provided an opportunity to submit written comments and recommendations. Notification was provided through a local newspaper, electronic mailing and posting on the Los Angeles Water Board Website.

The public had access to the agenda and any changes in dates and locations through the Los Angeles Water Board's website at:
http://www.waterboards.ca.gov/losangeles

B. Written Comments

Interested persons were invited to submit written comments concerning tentative WDR's as provided through the notification process electronically at losangeles@waterboards.ca.gov with a copy to Namiraj.Jain@waterboards.ca.gov.

To be fully responded to by staff and considered by the Los Angeles Water Board, the written comments were due at the Los Angeles Water Board office by 5:00 p.m. on March 19, 2016.

C. Public Hearing

The **Los Angeles Water Board** held a public hearing on the tentative WDR's during its regular Board meeting on the following date and time and at the following location:

Date:	April 14, 2016
Time:	9:00 AM
Location:	Metropolitan Water District of Southern California, Board Room 700 North Alameda Street Los Angeles, California

Interested persons were invited to attend. At the public hearing, the Los Angeles Water Board heard testimony pertinent to the discharge, WDR's, and permit. For accuracy of the record, important testimony was requested in writing.

D. Reconsideration of Waste Discharge Requirements

Any aggrieved person may petition the State Water Board to review the decision of the Los Angeles Water Board regarding the final WDR's. The petition must be received by the State Water Board at the following address within 30 calendar days of the Los Angeles Water Board's action:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

For instructions on how to file a petition for review, see
http://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml

E. Information and Copying

The Report of Waste Discharge, other supporting documents, and comments received are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Los Angeles Water Board by calling 213-576-6600.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDR's and NPDES permit should contact the Los Angeles Water Board, reference this Facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Namiraj Jain at (213) 620-6003.

ATTACHMENT G – STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

I. IMPLEMENTATION SCHEDULE

A storm water pollution prevention plan (SWPPP) shall be developed and submitted to the Regional Water Board within 90 days following the adoption of this Order. The SWPPP shall be implemented for each facility covered by this Permit within 10 days of approval from the Regional Water Board, or 6-months from the date of the submittal of the SWPPP to the Regional Water Board (whichever comes first).

II. OBJECTIVES

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, overhead coverage.) To achieve these objectives, facility operators should consider the five phase process for SWPPP development and implementation as shown in Table A.

The SWPPP requirements are designed to be sufficiently flexible to meet the needs of various facilities. SWPPP requirements that are not applicable to a facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

III. PLANNING AND ORGANIZATION

A. Pollution Prevention Team

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP implementation and revision, and conducting all monitoring program activities required in Attachment E of this Permit. The SWPPP shall clearly identify the Permit related responsibilities, duties, and activities of each team member. For small facilities, storm water pollution prevention teams may consist of one individual where appropriate.

B. Review Other Requirements and Existing Facility Plans

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. Facility operators should review all local, state, and federal requirements that impact, complement, or are consistent with the requirements of this General permit. Facility operators should identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of this Permit. As examples, facility operators whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly,

facility operators whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

IV. SITE MAP

The SWPPP shall include a site map. The site map shall be provided on an 8-½ x 11 inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, facility operators may provide the required information on multiple site maps.

TABLE A
FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL STORM WATER POLLUTION PREVENTION PLANS

PLANNING AND ORGANIZATION
Form Pollution Prevention Team
Review other plans

ASSESSMENT PHASE
Develop a site map
Identify potential pollutant sources
Inventory of materials and chemicals
List significant spills and leaks
Identify non-storm water discharges
Assess pollutant risks

BEST MANAGEMENT PRACTICES IDENTIFICATION PHASE
Non-structural BMPs
Structural BMPs
Select activity and site-specific BMPs

IMPLEMENTATION PHASE
Train employees
Implement BMPs
Conduct recordkeeping and reporting

EVALUATION / MONITORING
Conduct annual site evaluation
Review monitoring information
Evaluate BMPs
Review and revise SWPPP

The following information shall be included on the site map:

A. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, and ponds) and municipal storm drain inlets where the facility's storm water discharges and authorized non-storm water discharges may be received.

B. The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berms, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.

C. An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.

D. Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in section VI.A.d below have occurred.

E. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

V. LIST OF SIGNIFICANT MATERIALS

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored, received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

VI. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

A. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in section A.4.e above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:

1. **Industrial Processes.** Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the manufacturing, cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

2. **Material Handling and Storage Areas.** Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

3. **Dust and Particulate Generating Activities.** Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants;

the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.

4. **Significant Spills and Leaks.** Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges since April 17, 1994. Include toxic chemicals (listed in 40 CFR, part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 Code of Federal Regulations [CFR], parts 110, 117, and 302).

   The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water discharges, and the preventative measures taken to ensure spill or leaks do not reoccur. Such list shall be updated as appropriate during the term of this Permit.

5. **Non-Storm Water Discharges.** Facility operators shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

   All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

   Non-storm water discharges that contain significant quantities of pollutants or that do not meet the conditions provided in Special Conditions D of the storm water general permit are prohibited by this Permit (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, rinse water, wash water, etc.). Non-storm water discharges that meet the conditions provided in Special Condition D of the general storm water permit are authorized by this Permit. The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

6. **Soil Erosion.** Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.

B. The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B. The last column of Table B, "Control Practices", should be completed in accordance with section VII.A.8. below.

VII. ASSESSMENT OF POTENTIAL POLLUTANT SOURCES

A. The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in VI above to determine:

1. Which areas of the facility are likely sources of pollutants in storm water discharges and authorized non-storm water discharges, and

2. Which pollutants are likely to be present in storm water discharges and authorized non-storm water discharges. Facility operators shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to storm water or authorized non-storm water discharges; history of spill or leaks; and run-on from outside sources.

B. Facility operators shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

Facility operators are required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be narratively described in VIII below.

VIII. STORM WATER BEST MANAGEMENT PRACTICES

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (sections VI and VII above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

TABLE B

EXAMPLE
ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY

Area	Activity	Pollutant Source	Pollutant	Best Management Practices
Vehicle & Equipment Fueling	Fueling	Spills and leaks during delivery. Spills caused by topping off fuel tanks. Hosing or washing down fuel oil fuel area. Leaking storage tanks. Rainfall running off fuel oil, and rainfall running onto and off fueling area.	fuel oil	Use spill and overflow protection. Minimize run-on of storm water into the fueling area. Cover fueling area. Use dry cleanup methods rather than hosing down area. Implement proper spill prevention control program. Implement adequate preventative maintenance program to preventive tank and line leaks. Inspect fueling areas regularly to detect problems before they occur. Train employees on proper fueling, cleanup, and spill response techniques.

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The description shall also include a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

Facility operators shall consider the following BMPs for implementation at the facility:

A. Non-Structural BMPs

Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. Facility operators should consider all possible non-structural BMPs options before considering additional structural BMPs (see section VIII.B. below). Below is a list of non-structural BMPs that should be considered:

1. **Good Housekeeping.** Good housekeeping generally consists of practical procedures to maintain a clean and orderly facility.
2. **Preventive Maintenance.** Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.
3. **Spill Response.** This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.
4. **Material Handling and Storage.** This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.
5. **Employee Training.** This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.
6. **Waste Handling/Recycling.** This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.
7. **Recordkeeping and Internal Reporting.** This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.

A. Erosion Control and Site Stabilization. This includes a description of all sediment and erosion control activities. This may include the planting and maintenance of vegetation, diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment control devices, etc.

B. Inspections. This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.

C. Quality Assurance. This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.

B. Structural BMPs.

Where non-structural BMPs as identified in section VII.A above are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:

1. **Overhead Coverage.** This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.

D. Retention Ponds. This includes basins, ponds, surface impoundments, bermed areas, etc. that do not allow storm water to discharge from the facility.

E. Control Devices. This includes berms or other devices that channel or route run-on and runoff away from pollutant sources.

F. Secondary Containment Structures. This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.

G. Treatment. This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc. that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

IX. ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION

The facility operator shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

A. A review of all visual observation records, inspection records, and sampling and analysis results.

B. A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.

C. A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.

D. An evaluation report that includes, (i) identification of personnel performing the evaluation, (ii) the date(s) of the evaluation, (iii) necessary SWPPP revisions, (iv) schedule, as required in section A.10.e, for implementing SWPPP revisions, (v) any incidents of non-compliance and the corrective actions taken, and (vi) a certification that the facility operator is in compliance with this Permit. If the above certification cannot be provided, explain in the evaluation report why the facility operator is not in compliance with this General Permit. The evaluation report shall be submitted as part of the annual report, retained for at least five years, and signed and certified in accordance with Standard Provisions V.D.5 of Attachment D.

X. SWPPP GENERAL REQUIREMENTS

A. The SWPPP shall be retained on site and made available upon request of a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.

B. The Regional Water Board and/or local agency may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this section. As requested by the Regional Water Board and/or local agency, the facility operator shall submit

an SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.

C. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.

D. The SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a facility operator determines that the SWPPP is in violation of any requirement(s) of this Permit.

E. When any part of the SWPPP is infeasible to implement due to proposed significant structural changes, the facility operator shall submit a report to the Regional Water Board prior to the applicable deadline that (i) describes the portion of the SWPPP that is infeasible to implement by the deadline, (ii) provides justification for a time extension, (iii) provides a schedule for completing and implementing that portion of the SWPPP, and (iv) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. Facility operators shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.

F. The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under section 308(b) of the Clean Water Act.

ATTACHMENT H – STATE WATER BOARD MINIMUM LEVELS

The Minimum Levels (MLs) in micrograms per liter (µg/L) in this appendix are for use in reporting and compliance determination purposes in accordance with section 2.4 of the State Implementation Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the State Water Board and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs.

Table 2a - VOLATILE SUBSTANCES*	GC	GCMS
1,1 Dichloroethane	0.5	1
1,1 Dichloroethylene	0.5	2
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
1,2 Dichlorobenzene (volatile)	0.5	2
1,2 Dichloroethane	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichlorobenzene (volatile)	0.5	2
1,3 Dichloropropene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Methyl Bromide	1.0	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromo-methane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Chloromethane	0.5	2
Dichlorobromo-methane	0.5	2
Dichloromethane	0.5	2
Ethylbenzene	0.5	2
Tetrachloroethylene	0.5	2
Toluene	0.5	2
Trans-1,2 Dichloroethylene	0.5	1
Trichloroethene	0.5	2
Vinyl Chloride	0.5	2

*The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Benzo (a) Anthracene	10	5		
1,2 Dichlorobenzene (semivolatile)	2	2		
1,2 Diphenylhydrazine		1		
1,2,4 Trichlorobenzene	1	5		
1,3 Dichlorobenzene (semivolatile)	2	1		
1,4 Dichlorobenzene (semivolatile)	2	1		
2 Chlorophenol	2	5		
2,4 Dichlorophenol	1	5		
2,4 Dimethylphenol	1	2		
2,4 Dinitrophenol	5	5		
2,4 Dinitrotoluene	10	5		
2,4,6 Trichlorophenol	10	10		
2,6 Dinitrotoluene		5		
2- Nitrophenol		10		
2-Chloroethyl vinyl ether	1	1		
2-Chloronaphthalene		10		
3,3' Dichlorobenzidine		5		
Benzo (b) Fluoranthene		10	10	
3-Methyl-Chlorophenol	5	1		
4,6 Dinitro-2-methylphenol	10	5		
4- Nitrophenol	5	10		
4-Bromophenyl phenyl ether	10	5		
4-Chlorophenyl phenyl ether		5		
Acenaphthene	1	1	0.5	
Acenaphthylene		10	0.2	
Anthracene		10	2	
Benzidine		5		
Benzo(a) pyrene		10	2	
Benzo(g,h,i)perylene		5	0.1	
Benzo(k)fluoranthene		10	2	
bis 2-(1-Chloroethoxyl) methane		5		
bis(2-chloroethyl) ether	10	1		
bis(2-Chloroisopropyl) ether	10	2		
bis(2-Ethylhexyl) phthalate	10	5		
Butyl benzyl phthalate	10	10		
Chrysene		10	5	
di-n-Butyl phthalate		10		
di-n-Octyl phthalate		10		
Dibenzo(a,h)-anthracene		10	0.1	
Diethyl phthalate	10	2		
Dimethyl phthalate	10	2		
Fluoranthene	10	1	0.05	
Fluorene		10	0.1	
Hexachloro-cyclopentadiene	5	5		
Hexachlorobenzene	5	1		
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1		
Indeno(1,2,3,cd)-pyrene		10	0.05	
Isophorone	10	1		
N-Nitroso diphenyl amine	10	1		

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
Pentachlorophenol	1	5		
Phenanthrene		5	0.05	
Phenol **	1	1		50
Pyrene		10	0.05	

* With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1,000; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1,000.

** Phenol by colorimetric technique has a factor of 1.

Table 2c – INORGANICS*	FAA	GFAA	ICP	ICPMS	SPGFAA	HYDRIDE	CVAA	COLOR	DCP
Antimony	10	5	50	0.5	5	0.5			1,000
Arsenic		2	10	2	2	1		20	1,000
Beryllium	20	0.5	2	0.5	1				1,000
Cadmium	10	0.5	10	0.25	0.5				1,000
Chromium (total)	50	2	10	0.5	1				1,000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1,000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1,000
Selenium		5	10	2	5	1			1,000
Silver	10	1	10	0.25	2				1,000
Thallium	10	2	10	1	5				1,000
Zinc	20		20	1	10				1,000

* The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2d – PESTICIDES – PCBs*	GC
4,4'-DDD	0.05
4,4'-DDE	0.05
4,4'-DDT	0.01
a-Endosulfan	0.02
alpha-BHC	0.01
Aldrin	0.005
b-Endosulfan	0.01
Beta-BHC	0.005
Chlordane	0.1

Table 2d – PESTICIDES – PCBs*	GC
Delta-BHC	0.005
Dieldrin	0.01
Endosulfan Sulfate	0.05
Endrin	0.01
Endrin Aldehyde	0.01
Heptachlor	0.01
Heptachlor Epoxide	0.01
Gamma-BHC (Lindane)	0.02
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

* The normal method-specific factor for these substances is 100; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

Techniques:

GC - Gas Chromatography
GCMS - Gas Chromatography/Mass Spectrometry
HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)
LC - High Pressure Liquid Chromatography
FAA - Flame Atomic Absorption
GFAA - Graphite Furnace Atomic Absorption
HYDRIDE - Gaseous Hydride Atomic Absorption
CVAA - Cold Vapor Atomic Absorption
ICP - Inductively Coupled Plasma
ICPMS - Inductively Coupled Plasma/Mass Spectrometry
SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)
DCP - Direct Current Plasma
COLOR – Colorimetric

ATTACHMENT I – LIST OF PRIORITY POLLUTANTS

CTR Number	Parameter	CAS Number	Required Analytical Methods
1	Antimony	7440360	[1]
2	Arsenic	7440382	[1]
3	Beryllium	7440417	[1]
4	Cadmium	7440439	[1]
5a	Chromium (III)	16065831	[1]
5a	Chromium (VI)	18540299	[1]
6	Copper	7440508	[1]
7	Lead	7439921	[1]
8	Mercury	7439976	[1]
9	Nickel	7440020	[1]
11	Selenium	7782492	[1]
11	Silver	7440224	[1]
12	Thallium	7440280	[1]
13	Zinc	7440666	[1]
14	Cyanide	57125	[1]
15	Asbestos	1332214	[1]
16	2,3,7,8-TCDD	1746016	[1]
17	Acrolein	117028	[1]
18	Acrylonitrile	117131	[1]
19	Benzene	71432	[1]
20	Bromoform	75252	[1]
21	Carbon Tetrachloride	56235	[1]
22	Chlorobenzene	118907	[1]
23	Chlorodibromomethane	124481	[1]
24	Chloroethane	75003	[1]
25	2-Chloroethylvinyl Ether	111758	[1]
26	Chloroform	67663	[1]
27	Dichlorobromomethane	75274	[1]
28	1,1-Dichloroethane	75343	[1]
29	1,2-Dichloroethane	117062	[1]
30	1,1-Dichloroethylene	75354	[1]
31	1,2-Dichloropropane	78875	[1]
32	1,3-Dichloropropylene	542756	[1]
33	Ethylbenzene	110414	[1]
34	Methyl Bromide	74839	[1]
35	Methyl Chloride	74873	[1]
36	Methylene Chloride	75092	[1]
37	1,1,2,2-Tetrachloroethane	79345	[1]
38	Tetrachloroethylene	127184	[1]
39	Toluene	118883	[1]
40	1,2-Trans-Dichloroethylene	156605	[1]
41	1,1,1-Trichloroethane	71556	[1]
42	1,12-Trichloroethane	79005	[1]
43	Trichloroethylene	79016	[1]
44	Vinyl Chloride	75014	[1]
45	2-Chlorophenol	95578	[1]
46	2,4-Dichlorophenol	120832	[1]

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
47	2,4-Dimethylphenol	115679	[1]
48	2-Methyl-4,6-Dinitrophenol	534521	[1]
49	2,4-Dinitrophenol	51285	[1]
50	2-Nitrophenol	88755	[1]
51	4-Nitrophenol	110027	[1]
52	3-Methyl-4-Chlorophenol	59507	[1]
53	Pentachlorophenol	87865	[1]
54	Phenol	118952	[1]
55	2,4,6-Trichlorophenol	88062	[1]
56	Acenaphthene	83329	[1]
57	Acenaphthylene	208968	[1]
58	Anthracene	120127	[1]
59	Benzidine	92875	[1]
60	Benzo(a)Anthracene	56553	[1]
61	Benzo(a)Pyrene	50328	[1]
62	Benzo(b)Fluoranthene	205992	[1]
63	Benzo(ghi)Perylene	191242	[1]
64	Benzo(k)Fluoranthene	207089	[1]
65	Bis(2-Chloroethoxy)Methane	111911	[1]
66	Bis(2-Chloroethyl)Ether	111444	[1]
67	Bis(2-Chloroisopropyl)Ether	118601	[1]
68	Bis(2-Ethylhexyl)Phthalate	117817	[1]
69	4-Bromophenyl Phenyl Ether	111553	[1]
70	Butylbenzyl Phthalate	85687	[1]
71	2-Chloronaphthalene	91587	[1]
72	4-Chlorophenyl Phenyl Ether	7005723	[1]
73	Chrysene	218019	[1]
74	Dibenzo(a,h)Anthracene	53703	[1]
75	1,2-Dichlorobenzene	95501	[1]
76	1,3-Dichlorobenzene	541731	[1]
77	1,4-Dichlorobenzene	116467	[1]
78	3,3'-Dichlorobenzidine	91941	[1]
79	Diethyl Phthalate	84662	[1]
80	Dimethyl Phthalate	131113	[1]
81	Di-n-Butyl Phthalate	84742	[1]
82	2,4-Dinitrotoluene	121142	[1]
83	2,6-Dinitrotoluene	606202	[1]
84	Di-n-Octyl Phthalate	117840	[1]
85	1,2-Diphenylhydrazine	122667	[1]
86	Fluoranthene	206440	[1]
87	Fluorene	86737	[1]
88	Hexachlorobenzene	118741	[1]
89	Hexachlorobutadiene	87863	[1]
90	Hexachlorocyclopentadiene	77474	[1]
91	Hexachloroethane	67721	[1]
92	Indeno(1,2,3-cd)Pyrene	193395	[1]
93	Isophorone	78591	[1]
94	Naphthalene	91203	[1]
95	Nitrobenzene	98953	[1]
96	N-Nitrosodimethylamine	62759	[1]
97	N-Nitrosodi-n-Propylamine	621647	[1]
98	N-Nitrosodiphenylamine	86306	[1]

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
99	Phenanthrene	85018	[1]
110	Pyrene	129000	[1]
111	1,2,4-Trichlorobenzene	120821	[1]
112	Aldrin	309002	[1]
113	alpha-BHC	319846	[1]
114	beta-BHC	319857	[1]
115	gamma-BHC	58899	[1]
116	delta-BHC	319868	[1]
117	Chlordane	57749	[1]
118	4,4'-DDT	50293	[1]
119	4,4'-DDE	72559	[1]
111	4,4'-DDD	72548	[1]
111	Dieldrin	60571	[1]
112	alpha-Endosulfan	959988	[1]
113	beta-Endosulfan	33213659	[1]
114	Endosulfan Sulfate	1131178	[1]
115	Endrin	72208	[1]
116	Endrin Aldehyde	7421934	[1]
117	Heptachlor	76448	[1]
118	Heptachlor Epoxide	1124573	[1]
119	PCB-1116	12674112	[1]
120	PCB-1221	11114282	[1]
121	PCB-1232	11141165	[1]
122	PCB-1242	53469219	[1]
123	PCB-1248	12672296	[1]
124	PCB-1254	11197691	[1]
125	PCB-1260	11196825	[1]
126	Toxaphene	8001352	[1]

[1] Pollutants shall be analyzed using the methods described in 40 C.F.R Part 136.

ATTACHMENT J – SUMMARY OF EFFLUENT LIMITATION CALCULATIONS

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L) Freshwater C acute = CMC tot	Freshwater C chronic = CCC tot	Saltwater C acute = CMC tot	Saltwater C chronic = CCC tot	Human Health (hh) for consumption of: Water & organisms	Human Health (hh) for consumption of: Organisms only	Lowest C or Dry Weather WLA	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?
1	Antimony	ug/L		9.3						4300.00	4300.00	No	No	Y
2	Arsenic	ug/L		3.5	340.00	150.00					150.00	No	No	Y
3	Beryllium	ug/L		No Criteria						Narrative	No Criteria	No Criteria	No Criteria	Y
4	Cadmium	ug/L		0.16	9.32	4.08				Narrative	4.08	No	No	Y
5a	Chromium (III)			2.3	2937.50	350.13				Narrative	350.13	No	No	Y
5b	Chromium (VI)	ug/L		0.00025	16.00	11.00				Narrative	11.00	No	No	Y
6	Copper, Dry Weather	ug/L	0.674	9.2		19					19	No	No	Y
7	Lead, Dry Weather	ug/L	1.314	1.2		8.9				Narrative	8.9	No	No	Y
8	Mercury	ug/L		0.00010	Reserved	Reserved				0.05100	0.05100	No	No	Y
9	Nickel	ug/L		2.4	807.53	89.78				4600.00	89.78	No	No	Y
10	Selenium	ug/L		0.5	20.00	5.00				Narrative	5.00	No	No	Y
11	Silver	ug/L		0.1	12.24						12.24	No	No	Y
12	Thallium	ug/L		0.21						6.30	6.30	No	No	Y
13	Zinc	ug/L	1.351	180	206.40	206.40					206.4	No	No	Y
14	Cyanide	ug/L		0.003	22.00	5.20				220000.0	5.20	No	No	Y
15	Asbestos	MFL		No Criteria							No Criteria	No Criteria	No Criteria	Y
16	2,3,7,8 TCDD	ug/L								1.4E-08	1.40E-08			Y
	TCDD Equivalents	ug/L	0	6.157E-06						1.4E-08	1.40E-08	Yes	Yes	Y
17	Acrolein	ug/L		2.5						780.0	780	No	No	Y
18	Acrylonitrile	ug/L								0.66	0.660			Y
19	Benzene	ug/L		0.25						71	71.0	No	No	Y
20	Bromoform	ug/L		0.25						360	360.0	No	No	Y
21	Carbon Tetrachloride	ug/L		0.25						4.4	4.40	No	No	Y
22	Chlorobenzene	ug/L		0.25						21000	21000	No	No	Y
23	Chlorodibromomethane	ug/L		0.25						34	34.00	No	No	Y
24	Chloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
25	2-Chloroethylvinyl ether	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
26	Chloroform	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
27	Dichlorobromomethane	ug/L		0.25						46	46.00	No	No	Y
28	1,1-Dichloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
29	1,2-Dichloroethane	ug/L		0.25						99	99.00	No	No	Y
30	1,1-Dichloroethylene	ug/L		0.25						3.2	3.200	No	No	Y
31	1,2-Dichloropropane	ug/L		0.25						39	39.00	No	No	Y
32	1,3-Dichloropropylene	ug/L		0.22						1700	1700	No	No	Y
33	Ethylbenzene	ug/L		0.31						29000	29000	No	No	Y
34	Methyl Bromide	ug/L		0.25						4000	4000	No	No	Y
35	Methyl Chloride	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
36	Methylene Chloride	ug/L		0.88						1600	1600.0	No	No	Y
37	1,1,2,2-Tetrachloroethane	ug/L		0.25						11	11.00	No	No	Y
38	Tetrachloroethylene	ug/L		0.25						8.85	8.9	No	No	Y
39	Toluene	ug/L		0.38						200000	200000	No	No	Y
40	1,2-Trans-Dichloroethylene	ug/L		0.25						140000	140000	No	No	Y
41	1,1,1-Trichloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
42	1,1,2-Trichloroethane	ug/L		0.25						42	42.0	No	No	Y
43	Trichloroethylene	ug/L		0.25						81	81.0	No	No	Y
44	Vinyl Chloride	ug/L		0.25						525	525	No	No	Y
45	2-Chlorophenol	ug/L		0.19						400	400	No	No	Y
46	2,4-Dichlorophenol	ug/L		0.19						790	790	No	No	Y
47	2,4-Dimethylphenol	ug/L		0.29						2300	2300	No	No	Y
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)	ug/L		0.19						765	765.0	No	No	Y
49	2,4-Dinitrophenol	ug/L		0.86						14000	14000	No	No	Y
50	2-Nitrophenol	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
51	4-Nitrophenol	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
53	Pentachlorophenol	ug/L		0.095	5.28	4.05				8.2	4.05	No	No	Y
54	Phenol	ug/L		0.29						4600000	4600000	No	No	Y
55	2,4,6-Trichlorophenol	ug/L		0.095						6.5	6.5	No	No	Y
56	Acenaphthene	ug/L		0.095						2700	2700	No	No	Y
57	Acenaphthylene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
58	Anthracene	ug/L		0.095						110000	110000	No	No	Y
59	Benzidine	ug/L								0.00054	0.00054			Y
60	Benzo(a)Anthracene	ug/L								0.049	0.049			Y

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh
1	Antimony	N		2.5		B<=C, Step 7		No	MEC<C & B<=C			
2	Arsenic	N		2.7		B<=C, Step 7		No	MEC<C & B<=C			
3	Beryllium	N		0.099		No Criteria	No Criteria	Uc	No Criteria			
4	Cadmium	N		0.26		B<=C, Step 7		No	MEC<C & B<=C			
5a	Chromium (III)	N		1.4		B<=C, Step 7		No	MEC<C & B<=C			
5b	Chromium (VI)	Y	0.00025		N	No detected value of B, Step 7		No	MEC<C & B is ND			
6	Copper, Dry Weather	N		9.8		B<=C, Step 7		No	MEC<C & B<=C		2.12	
7	Lead, Dry Weather	N		6.3		B<=C, Step 7		No	MEC<C & B<=C	Narrative	2.78	
8	Mercury	Y	0.00010		N	No detected value of B, Step 7		No	MEC<C & B is ND			
9	Nickel	N		6.3		B<=C, Step 7		No	MEC<C & B<=C			
10	Selenium	N		0.77		B<=C, Step 7		No	MEC<C & B<=C			
11	Silver	N		0.8		B<=C, Step 7		No	MEC<C & B<=C			
12	Thallium	N		0.28		B<=C, Step 7		No	MEC<C & B<=C			
13	Zinc	N		68		B<=C, Step 7		No	MEC<C & B<=C		2.80	
14	Cyanide	N		0.0025		B<=C, Step 7		No	MEC<C & B<=C			
15	Asbestos	Y	0.2		N	No Criteria	No Criteria	Uc	No Criteria			
16	2,3,7,8 TCDD	N		1.0369E-05		B>C & eff ND, Step 7		no	ud; effluent ND, MDL>C & B>C			
	TCDD Equivalents	N				No detected value of B, Step 7		Yes	MEC>=C	1.40E-08	2.01	2.81E-08
17	Acrolein	Y	2.5		N	No detected value of B, Step 7		No	MEC<C & B is ND			
18	Acrylonitrile	Y	1		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
19	Benzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
20	Bromoform	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
21	Carbon Tetrachloride	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
22	Chlorobenzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
23	Chlorodibromomethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
24	Chloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
25	2-Chloroethylvinyl ether	Y	1		N	No Criteria	No Criteria	Uc	No Criteria			
26	Chloroform	Y				No Criteria	No Criteria	Uc	No Criteria			
27	Dichlorobromomethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
28	1,1-Dichloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
29	1,2-Dichloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
30	1,1-Dichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
31	1,2-Dichloropropane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
32	1,3-Dichloropropylene	Y	0.22		N	No detected value of B, Step 7		No	MEC<C & B is ND			
33	Ethylbenzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
34	Methyl Bromide	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
35	Methyl Chloride	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
36	Methylene Chloride	N		0.89		B<=C, Step 7		No	MEC<C & B<=C			
37	1,1,2,2-Tetrachloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
38	Tetrachloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
39	Toluene	N		3.4		B<=C, Step 7		No	MEC<C & B<=C			
40	1,2-Trans-Dichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
41	1,1,1-Trichloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
42	1,1,2-Trichloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
43	Trichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
44	Vinyl Chloride	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
45	2-Chlorophenol	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
46	2,4-Dichlorophenol	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
47	2,4-Dimethylphenol	Y	0.29		N	No detected value of B, Step 7		No	MEC<C & B is ND			
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
49	2,4-Dinitrophenol	Y	0.86		N	No detected value of B, Step 7		No	MEC<C & B is ND			
50	2-Nitrophenol	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
51	4-Nitrophenol	Y	1.9		N	No Criteria	No Criteria	Uc	No Criteria			
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	Y	0.19		N	No Criteria	No Criteria	Uc	No Criteria			
53	Pentachlorophenol	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
54	Phenol	Y	0.29		N	No detected value of B, Step 7		No	MEC<C & B is ND			
55	2,4,6-Trichlorophenol	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
56	Acenaphthene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
57	Acenaphthylene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
58	Anthracene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
59	Benzidine	Y	0.97		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
60	Benzo(a)Anthracene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			

CTR#	Parameters	AQUATIC LIFE CALCULATIONS									LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan												
		ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL		
1	Antimony												No Limit	
2	Arsenic												No Limit	
3	Beryllium												No Limit	
4	Cadmium												No Limit	
5a	Chromium (III)												No Limit	
5b	Chromium (VI)												No Limit	
6	Copper, Dry Weather			0.492	9.35	9.35	1.63	15.20	3.44	32	15	32		TMDL dry weather WLA
7	Lead, Dry Weather			0.30	2.64	2.64	2.24	5.92	6.22	16	5.9	16		TMDL dry weather WLA
8	Mercury												No Limit	
9	Nickel												No Limit	
10	Selenium												No Limit	
11	Silver												No Limit	
12	Thallium												No Limit	
13	Zinc	0.157	32.42	0.290	59.84	32.42	2.27	73.65	6.37	206	74	206		
14	Cyanide												No Limit	
15	Asbestos												No Limit	
16	2,3,7,8 TCDD												No Limit	
	TCDD Equivalents						1.55		3.11		1.4E-08	2.8E-08		
17	Acrolein												No Limit	
18	Acrylonitrile												No Limit	
19	Benzene												No Limit	
20	Bromoform												No Limit	
21	Carbon Tetrachloride												No Limit	
22	Chlorobenzene												No Limit	
23	Chlorodibromomethane												No Limit	
24	Chloroethane												No Limit	
25	2-Chloroethylvinyl ether												No Limit	
26	Chloroform												No Limit	
27	Dichlorobromomethane												No Limit	
28	1,1-Dichloroethane												No Limit	
29	1,2-Dichloroethane												No Limit	
30	1,1-Dichloroethylene												No Limit	
31	1,2-Dichloropropane												No Limit	
32	1,3-Dichloropropylene												No Limit	
33	Ethylbenzene												No Limit	
34	Methyl Bromide												No Limit	
35	Methyl Chloride												No Limit	
36	Methylene Chloride												No Limit	
37	1,1,2,2-Tetrachloroethane												No Limit	
38	Tetrachloroethylene												No Limit	
39	Toluene												No Limit	
40	1,2-Trans-Dichloroethylene												No Limit	
41	1,1,1-Trichloroethane												No Limit	
42	1,1,2-Trichloroethane												No Limit	
43	Trichloroethylene												No Limit	
44	Vinyl Chloride												No Limit	
45	2-Chlorophenol												No Limit	
46	2,4-Dichlorophenol												No Limit	
47	2,4-Dimethylphenol												No Limit	
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)												No Limit	
49	2,4-Dinitrophenol												No Limit	
50	2-Nitrophenol												No Limit	
51	4-Nitrophenol												No Limit	
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)												No Limit	
53	Pentachlorophenol												No Limit	
54	Phenol												No Limit	
55	2,4,6-Trichlorophenol												No Limit	
56	Acenaphthene												No Limit	
57	Acenaphthylene												No Limit	
58	Anthracene												No Limit	
59	Benzidine												No Limit	
60	Benzo(a)Anthracene												No Limit	

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L) Freshwater C acute = CMC tot	Freshwater C chronic = CCC tot	Saltwater C acute = CMC tot	Saltwater C chronic = CCC tot	Human Health (hh) for consumption of: Water & organisms	Human Health (hh) for consumption of: Organisms only	Lowest C or Dry Weather WLA	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?
61	Benzo(a)Pyrene	ug/L								0.049	0.049			Y
62	Benzo(b)Fluoranthene	ug/L								0.049	0.0490			Y
63	Benzo(ghi)Perylene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
64	Benzo(k)Fluoranthene	ug/L								0.049	0.0490			Y
65	Bis(2-Chloroethoxy)Methane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
66	Bis(2-Chloroethyl)Ether	ug/L		0.095						1.4	1.400	No	No	Y
67	Bis(2-Chloroisopropyl)Ether	ug/L		0.095						170000	170000	No	No	Y
68	Bis(2-Ethylhexyl)Phthalate	ug/L		1.6						5.9	5.9	No	No	Y
69	4-Bromophenyl Phenyl Ethe	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
70	Butylbenzyl Phthalate	ug/L		0.74						5200	5200	No	No	Y
71	2-Chloronaphthalene	ug/L		0.095						4300	4300	No	No	Y
72	4-Chlorophenyl Phenyl Ethe	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
73	Chrysene	ug/L								0.049	0.049			Y
74	Dibenzo(a,h)Anthracene	ug/L								0.049	0.0490			Y
75	1,2-Dichlorobenzene	ug/L		0.1553398						17000	17000	No	No	Y
76	1,3-Dichlorobenzene	ug/L		0.095						2600	2600	No	No	Y
77	1,4-Dichlorobenzene	ug/L		0.19						2600	2600	No	No	Y
78	3,3 Dichlorobenzidine	ug/L								0.077	0.08			Y
79	Diethyl Phthalate	ug/L		0.097						120000	120000	No	No	Y
80	Dimethyl Phthalate	ug/L		0.095						2900000	2900000	No	No	Y
81	Di-n-Butyl Phthalate	ug/L		1.2						12000	12000	No	No	Y
82	2,4-Dinitrotoluene	ug/L		0.19						9.10	9.10	No	No	Y
83	2,6-Dinitrotoluene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
84	Di-n-Octyl Phthalate	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
85	1,2-Diphenylhydrazine	ug/L		0.095						0.54	0.540	No	No	Y
86	Fluoranthene	ug/L		0.095						370	370	No	No	Y
87	Fluorene	ug/L		0.095						14000	14000	No	No	Y
88	Hexachlorobenzene	ug/L								0.00077	0.00077			Y
89	Hexachlorobutadiene	ug/L		0.19						50	50.00	No	No	Y
90	Hexachlorocyclopentadiene	ug/L		0.095						17000	17000	No	No	Y
91	Hexachloroethane	ug/L		0.19						8.9	8.9	No	No	Y
92	Indeno(1,2,3-cd)Pyrene	ug/L								0.049	0.0490			Y
93	Isophorone	ug/L		0.095						600	600.0	No	No	Y
94	Naphthalene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
95	Nitrobenzene	ug/L		0.095						1900	1900	No	No	Y
96	N-Nitrosodimethylamine	ug/L		0.095						8.10	8.10000	No	No	Y
97	N-Nitrosodi-n-Propylamine	ug/L		0.095						1.40	1.400	No	No	Y
98	N-Nitrosodiphenylamine	ug/L		0.095						16	16.0	No	No	Y
99	Phenanthrene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
100	Pyrene	ug/L		0.095						11000	11000	No	No	Y
101	1,2,4-Trichlorobenzene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
102	Aldrin	ug/L			3.00					0.00014	0.00014			Y
103	alpha-BHC	ug/L		0.0024						0.013	0.0130	No	No	Y
104	beta-BHC	ug/L		0.0038						0.046	0.046	No	No	Y
105	gamma-BHC	ug/L		0.0028	0.95					0.063	0.063	No	No	Y
106	delta-BHC	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
107	Chlordane	ug/L			2.40	0.00				0.00059	0.00059			Y
108	4,4'-DDT	ug/L			1.10	0.00				0.00059	0.00059			Y
109	4,4'-DDE (linked to DDT)	ug/L								0.00059	0.00059			Y
110	4,4'-DDD	ug/L								0.00084	0.00084			Y
111	Dieldrin	ug/L			0.24	0.06				0.00014	0.00014			Y
112	alpha-Endosulfan	ug/L		0.0019	0.22	0.056				240	0.0560	No	No	Y
113	beta-Endolsulfan	ug/L		0.0019	0.22	0.056				240	0.0560	No	No	Y
114	Endosulfan Sulfate	ug/L		0.0028						240	240	No	No	Y
115	Endrin	ug/L		0.0019	0.086	0.036				0.81	0.0360	No	No	Y
116	Endrin Aldehyde	ug/L		0.0019						0.81	0.81	No	No	Y
117	Heptachlor	ug/L			0.52	0.0038				0.00021	0.00021			Y
118	Heptachlor Epoxide	ug/L			0.52	0.0038				0.00011	0.00011			Y
119-125	PCBs sum (2)	ug/L	0.6	0.382		0.01				0.00017	0.00017	Yes	Yes	Y
126	Toxaphene	ug/L			0.73	0.0002				0.00075	0.0002			Y
	Total Ammonia (as N)	mg/L	0.788	0.88	10.10	2.3000					2.3000	No	No	N

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh
61	Benzo(a)Pyrene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
62	Benzo(b)Fluoranthene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
63	Benzo(ghi)Perylene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
64	Benzo(k)Fluoranthene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
65	Bis(2-Chloroethoxy)Methane	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
66	Bis(2-Chloroethyl)Ether	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
67	Bis(2-Chloroisopropyl)Ether	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
68	Bis(2-Ethylhexyl)Phthalate	Y	1.6		N	No detected value of B, Step 7		No	MEC<C & B is ND			
69	4-Bromophenyl Phenyl Ethe	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
70	Butylbenzyl Phthalate	N		0.74		B<=C, Step 7		No	MEC<C & B<=C			
71	2-Chloronaphthalene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
72	4-Chlorophenyl Phenyl Ethe	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
73	Chrysene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
74	Dibenzo(a,h)Anthracene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
75	1,2-Dichlorobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
76	1,3-Dichlorobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
77	1,4-Dichlorobenzene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
78	3,3 Dichlorobenzidine	Y	0.49		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
79	Diethyl Phthalate	N		0.54		B<=C, Step 7		No	MEC<C & B<=C			
80	Dimethyl Phthalate	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
81	Di-n-Butyl Phthalate	N		0.4571429		B<=C, Step 7		No	MEC<C & B<=C			
82	2,4-Dinitrotoluene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
83	2,6-Dinitrotoluene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
84	Di-n-Octyl Phthalate	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
85	1,2-Diphenylhydrazine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
86	Fluoranthene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
87	Fluorene	N		0.26		B<=C, Step 7		No	MEC<C & B<=C			
88	Hexachlorobenzene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
89	Hexachlorobutadiene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
90	Hexachlorocyclopentadiene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
91	Hexachloroethane	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
92	Indeno(1,2,3-cd)Pyrene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
93	Isophorone	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
94	Naphthalene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
95	Nitrobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
96	N-Nitrosodimethylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
97	N-Nitrosodi-n-Propylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
98	N-Nitrosodiphenylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
99	Phenanthrene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
100	Pyrene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
101	1,2,4-Trichlorobenzene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
102	Aldrin	Y				No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
103	alpha-BHC	Y				No detected value of B, Step 7		No	MEC<C & B is ND			
104	beta-BHC	Y	0.0035		N	No detected value of B, Step 7		No	MEC<C & B is ND			
105	gamma-BHC	Y	0.0027		N	No detected value of B, Step 7		No	MEC<C & B is ND			
106	delta-BHC	Y	0.0031		N	No Criteria	No Criteria	Uc	No Criteria			
107	Chlordane	Y	0.038		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
108	4,4'-DDT	Y	0.0035		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
109	4,4'-DDE (linked to DDT)	Y	0.0027		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
110	4,4'-DDD	Y	0.0019		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
111	Dieldrin	Y	0.0018		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
112	alpha-Endosulfan	N		0.037		B<=C, Step 7		No	MEC<C & B<=C			
113	beta-Endolsulfan	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
114	Endosulfan Sulfate	Y	0.0027		N	No detected value of B, Step 7		No	MEC<C & B is ND			
115	Endrin	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
116	Endrin Aldehyde	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
117	Heptachlor	Y	0.0027		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
118	Heptachlor Epoxide	Y	0.0022		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
119-125	PCBs sum (2)	N		0.4		Limit required, B>C & pollutant dete		Yes	MEC>=C	0.00017	2.01	0.00034
126	Toxaphene	Y	0.22		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
	Total Ammonia (as N)					No detected value of B, Step 7		No	Ud;MEC<C & no B		2.28	

CTR#	Parameters	AQUATIC LIFE CALCULATIONS									LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan												
		ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL		
61	Benzo(a)Pyrene												No Limit	
62	Benzo(b)Fluoranthene												No Limit	
63	Benzo(ghi)Perylene												No Limit	
64	Benzo(k)Fluoranthene												No Limit	
65	Bis(2-Chloroethoxy)Methane												No Limit	
66	Bis(2-Chloroethyl)Ether												No Limit	
67	Bis(2-Chloroisopropyl)Ether												No Limit	
68	Bis(2-Ethylhexyl)Phthalate												No Limit	
69	4-Bromophenyl Phenyl Ethe												No Limit	
70	Butylbenzyl Phthalate												No Limit	
71	2-Chloronaphthalene												No Limit	
72	4-Chlorophenyl Phenyl Ethe												No Limit	
73	Chrysene												No Limit	
74	Dibenzo(a,h)Anthracene												No Limit	
75	1,2-Dichlorobenzene												No Limit	
76	1,3-Dichlorobenzene												No Limit	
77	1,4-Dichlorobenzene												No Limit	
78	3,3 Dichlorobenzidine												No Limit	
79	Diethyl Phthalate												No Limit	
80	Dimethyl Phthalate												No Limit	
81	Di-n-Butyl Phthalate												No Limit	
82	2,4-Dinitrotoluene												No Limit	
83	2,6-Dinitrotoluene												No Limit	
84	Di-n-Octyl Phthalate												No Limit	
85	1,2-Diphenylhydrazine												No Limit	
86	Fluoranthene												No Limit	
87	Fluorene												No Limit	
88	Hexachlorobenzene												No Limit	
89	Hexachlorobutadiene												No Limit	
90	Hexachlorocyclopentadiene												No Limit	
91	Hexachloroethane												No Limit	
92	Indeno(1,2,3-cd)Pyrene												No Limit	
93	Isophorone												No Limit	
94	Naphthalene												No Limit	
95	Nitrobenzene												No Limit	
96	N-Nitrosodimethylamine												No Limit	
97	N-Nitrosodi-n-Propylamine												No Limit	
98	N-Nitrosodiphenylamine												No Limit	
99	Phenanthrene												No Limit	
100	Pyrene												No Limit	
101	1,2,4-Trichlorobenzene												No Limit	
102	Aldrin												No Limit	
103	alpha-BHC												No Limit	
104	beta-BHC												No Limit	
105	gamma-BHC												No Limit	
106	delta-BHC												No Limit	
107	Chlordane												No Limit	
108	4,4'-DDT												No Limit	
109	4,4'-DDE (linked to DDT)												No Limit	
110	4,4'-DDD												No Limit	
111	Dieldrin												No Limit	
112	alpha-Endosulfan												No Limit	
113	beta-Endolsulfan												No Limit	
114	Endosulfan Sulfate												No Limit	
115	Endrin												No Limit	
116	Endrin Aldehyde												No Limit	
117	Heptachlor												No Limit	
118	Heptachlor Epoxide												No Limit	
119-125	PCBs sum (2)	0.32		0.53	0.01	0.01	1.55	0.01	3.11	0.022997	0.00017	0.00034		
126	Toxaphene												No Limit	
	Total Ammonia (as N)	0.25	2.55	0.44	1.02	1.02	1.74	1.78	3.96	4.041375	1.8	4.0		

Ud = Undetermined due to lack of data
Uc = Undetermined due to lack of CTR Water Quality Criteria
C = Water Quality Criteria

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)						Lowest C or Dry Weather WLA			
					Freshwater		Saltwater		Human Health (hh) for consumption of:					
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only		MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh

		AQUATIC LIFE CALCULATIONS									LIMITS			
CTR#		Saltwater / Freshwater / Basin Plan												
	Parameters	ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL	Recommendation	Comment

B = Background receiving water data

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L) Freshwater C acute = CMC tot	Freshwater C chronic = CCC tot	Saltwater C acute = CMC tot	Saltwater C chronic = CCC tot	Human Health (hh) for consumption of: Water & organisms	Human Health (hh) for consumption of: Organisms only	Lowest C or Wet Weather WLAs	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?
1	Antimony	ug/L		9.3						4300.00	4300.00	No	No	Y
2	Arsenic	ug/L		3.5	340.00	150.00					150.00	No	No	Y
3	Beryllium	ug/L		No Criteria						Narrative	No Criteria	No Criteria	No Criteria	Y
4	Cadmium , Wet Weather	ug/L	0.6	0.16	3.1					Narrative	3.1	No	No	Y
5a	Chromium (III)			2.3	2486.34	296.36				Narrative	296.36	No	No	Y
5b	Chromium (VI)	ug/L		0.00025	16.00	11.00				Narrative	11.00	No	No	Y
6	Copper, Wet Weather	ug/L	0.674	9.2	17						17	No	No	Y
7	Lead, Wet Weather	ug/L	1.314	1.2	62					Narrative	62	No	No	Y
8	Mercury	ug/L		0.00010	Reserved	Reserved				0.05100	0.05100	No	No	Y
9	Nickel	ug/L		2.4	679.76	75.58				4600.00	75.58	No	No	Y
10	Selenium	ug/L		0.5	20.00	5.00				Narrative	5.00	No	No	Y
11	Silver	ug/L		0.1	8.63						8.63	No	No	Y
12	Thallium	ug/L		0.21						6.30	6.30	No	No	Y
13	Zinc, Wet Weather	ug/L	1.351	180	159						159.0	Yes	Yes	Y
14	Cyanide	ug/L		0.003	22.00	5.20				220000.0	5.20	No	No	Y
15	Asbestos	MFL		No Criteria							No Criteria	No Criteria	No Criteria	Y
16	2,3,7,8 TCDD	ug/L								1.4E-08	1.40E-08			Y
	TCDD Equivalents	ug/L	0.00	6.157E-06						1.4E-08	1.40E-08	Yes	Yes	Y
17	Acrolein	ug/L		2.5						780.0	780	No	No	Y
18	Acrylonitrile	ug/L								0.66	0.660			Y
19	Benzene	ug/L		0.25						71	71.0	No	No	Y
20	Bromoform	ug/L		0.25						360	360.0	No	No	Y
21	Carbon Tetrachloride	ug/L		0.25						4.4	4.40	No	No	Y
22	Chlorobenzene	ug/L		0.25						21000	21000	No	No	Y
23	Chlorodibromomethane	ug/L		0.25						34	34.00	No	No	Y
24	Chloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
25	2-Chloroethylvinyl ether	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
26	Chloroform	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
27	Dichlorobromomethane	ug/L		0.25						46	46.00	No	No	Y
28	1,1-Dichloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
29	1,2-Dichloroethane	ug/L		0.25						99	99.00	No	No	Y
30	1,1-Dichloroethylene	ug/L		0.25						3.2	3.200	No	No	Y
31	1,2-Dichloropropane	ug/L		0.25						39	39.00	No	No	Y
32	1,3-Dichloropropylene	ug/L		0.22						1700	1700	No	No	Y
33	Ethylbenzene	ug/L		0.31						29000	29000	No	No	Y
34	Methyl Bromide	ug/L		0.25						4000	4000	No	No	Y
35	Methyl Chloride	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
36	Methylene Chloride	ug/L		0.88						1600	1600.0	No	No	Y
37	1,1,2,2-Tetrachloroethane	ug/L		0.25						11	11.00	No	No	Y
38	Tetrachloroethylene	ug/L		0.25						8.85	8.9	No	No	Y
39	Toluene	ug/L		0.38						200000	200000	No	No	Y
40	1,2-Trans-Dichloroethylene	ug/L		0.25						140000	140000	No	No	Y
41	1,1,1-Trichloroethane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
42	1,1,2-Trichloroethane	ug/L		0.25						42	42.0	No	No	Y
43	Trichloroethylene	ug/L		0.25						81	81.0	No	No	Y
44	Vinyl Chloride	ug/L		0.25						525	525	No	No	Y
45	2-Chlorophenol	ug/L		0.19						400	400	No	No	Y
46	2,4-Dichlorophenol	ug/L		0.19						790	790	No	No	Y
47	2,4-Dimethylphenol	ug/L		0.29						2300	2300	No	No	Y
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)	ug/L		0.19						765	765.0	No	No	Y
49	2,4-Dinitrophenol	ug/L		0.86						14000	14000	No	No	Y
50	2-Nitrophenol	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
51	4-Nitrophenol	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
53	Pentachlorophenol	ug/L		0.095	8.21	6.30				8.2	6.30	No	No	Y
54	Phenol	ug/L		0.29						4600000	4600000	No	No	Y
55	2,4,6-Trichlorophenol	ug/L		0.095						6.5	6.5	No	No	Y
56	Acenaphthene	ug/L		0.095						2700	2700	No	No	Y
57	Acenaphthylene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
58	Anthracene	ug/L		0.095						110000	110000	No	No	Y
59	Benzidine	ug/L								0.00054	0.00054			Y
60	Benzo(a)Anthracene	ug/L								0.049	0.049			Y

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh
1	Antimony	N		2.5		B<=C, Step 7		No	MEC<C & B<=C			
2	Arsenic	N		2.7		B<=C, Step 7		No	MEC<C & B<=C			
3	Beryllium	N		0.099		No Criteria	No Criteria	Uc	No Criteria			
4	Cadmium , Wet Weather	N		0.26		B<=C, Step 7		No	MEC<C & B<=C	Narrative	2.01	
5a	Chromium (III)	N		1.4		B<=C, Step 7		No	MEC<C & B<=C			
5b	Chromium (VI)	Y	0.00025		N	No detected value of B, Step 7		No	MEC<C & B is ND			
6	Copper, Wet Weather	N		9.8		B<=C, Step 7		No	MEC<C & B<=C		2.12	
7	Lead, Wet Weather	N		6.3		B<=C, Step 7		No	MEC<C & B<=C	Narrative	2.78	
8	Mercury	Y	0.00010		N	No detected value of B, Step 7		No	MEC<C & B is ND			
9	Nickel	N		6.3		B<=C, Step 7		No	MEC<C & B<=C			
10	Selenium	N		0.77		B<=C, Step 7		No	MEC<C & B<=C			
11	Silver	N		0.8		B<=C, Step 7		No	MEC<C & B<=C			
12	Thallium	N		0.28		B<=C, Step 7		No	MEC<C & B<=C			
13	Zinc, Wet Weather	N		68		B<=C, Step 7		Yes	MEC>=C		2.80	
14	Cyanide	N		0.0025		B<=C, Step 7		No	MEC<C & B<=C			
15	Asbestos	Y	0.2		N	No Criteria	No Criteria	Uc	No Criteria			
16	2,3,7,8 TCDD	N		1.0369E-05		B>C & eff ND, Step 7		no	ud; effluent ND, MDL>C & B>C			
	TCDD Equivalents	N				No detected value of B, Step 7		Yes	MEC>=C	1.40E-08	2.01	2.81E-08
17	Acrolein	Y	2.5		N	No detected value of B, Step 7		No	MEC<C & B is ND			
18	Acrylonitrile	Y	1		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
19	Benzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
20	Bromoform	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
21	Carbon Tetrachloride	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
22	Chlorobenzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
23	Chlorodibromomethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
24	Chloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
25	2-Chloroethylvinyl ether	Y	1		N	No Criteria	No Criteria	Uc	No Criteria			
26	Chloroform	Y				No Criteria	No Criteria	Uc	No Criteria			
27	Dichlorobromomethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
28	1,1-Dichloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
29	1,2-Dichloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
30	1,1-Dichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
31	1,2-Dichloropropane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
32	1,3-Dichloropropylene	Y	0.22		N	No detected value of B, Step 7		No	MEC<C & B is ND			
33	Ethylbenzene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
34	Methyl Bromide	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
35	Methyl Chloride	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
36	Methylene Chloride	N		0.89		B<=C, Step 7		No	MEC<C & B<=C			
37	1,1,2,2-Tetrachloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
38	Tetrachloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
39	Toluene	N		3.4		B<=C, Step 7		No	MEC<C & B<=C			
40	1,2-Trans-Dichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
41	1,1,1-Trichloroethane	Y	0.25		N	No Criteria	No Criteria	Uc	No Criteria			
42	1,1,2-Trichloroethane	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
43	Trichloroethylene	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
44	Vinyl Chloride	Y	0.25		N	No detected value of B, Step 7		No	MEC<C & B is ND			
45	2-Chlorophenol	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
46	2,4-Dichlorophenol	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
47	2,4-Dimethylphenol	Y	0.29		N	No detected value of B, Step 7		No	MEC<C & B is ND			
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
49	2,4-Dinitrophenol	Y	0.86		N	No detected value of B, Step 7		No	MEC<C & B is ND			
50	2-Nitrophenol	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
51	4-Nitrophenol	Y	1.9		N	No Criteria	No Criteria	Uc	No Criteria			
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	Y	0.19		N	No Criteria	No Criteria	Uc	No Criteria			
53	Pentachlorophenol	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
54	Phenol	Y	0.29		N	No detected value of B, Step 7		No	MEC<C & B is ND			
55	2,4,6-Trichlorophenol	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
56	Acenaphthene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
57	Acenaphthylene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
58	Anthracene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
59	Benzidine	Y	0.97		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
60	Benzo(a)Anthracene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			

CTR#	Parameters	AQUATIC LIFE CALCULATIONS									LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan												
		ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL		
1	Antimony												No Limit	
2	Arsenic												No Limit	
3	Beryllium												No Limit	
4	Cadmium , Wet Weather	0.321	1.00			1.00	1.55	1.55	3.11	3.1	1.5	3.1		TMDL wet-weather WLA
5a	Chromium (III)												No Limit	
5b	Chromium (VI)												No Limit	
6	Copper, Wet Weather	0.291	4.94			4.94	1.63	8.03	3.44	17	8.0	17		TMDL wet-weather WLA
7	Lead, Wet Weather	0.161	9.96			9.96	2.24	22.31	6.22	62	22	62		TMDL wet-weather WLA
8	Mercury												No Limit	
9	Nickel												No Limit	
10	Selenium												No Limit	
11	Silver												No Limit	
12	Thallium												No Limit	
13	Zinc, Wet Weather	0.157	24.97			24.97	2.27	56.73	6.37	159	57	159		TMDL wet-weather WLA
14	Cyanide												No Limit	
15	Asbestos												No Limit	
16	2,3,7,8 TCDD												No Limit	
	TCDD Equivalents						1.55		3.11		1.4E-08	2.8E-08		
17	Acrolein												No Limit	
18	Acrylonitrile												No Limit	
19	Benzene												No Limit	
20	Bromoform												No Limit	
21	Carbon Tetrachloride												No Limit	
22	Chlorobenzene												No Limit	
23	Chlorodibromomethane												No Limit	
24	Chloroethane												No Limit	
25	2-Chloroethylvinyl ether												No Limit	
26	Chloroform												No Limit	
27	Dichlorobromomethane												No Limit	
28	1,1-Dichloroethane												No Limit	
29	1,2-Dichloroethane												No Limit	
30	1,1-Dichloroethylene												No Limit	
31	1,2-Dichloropropane												No Limit	
32	1,3-Dichloropropylene												No Limit	
33	Ethylbenzene												No Limit	
34	Methyl Bromide												No Limit	
35	Methyl Chloride												No Limit	
36	Methylene Chloride												No Limit	
37	1,1,2,2-Tetrachloroethane												No Limit	
38	Tetrachloroethylene												No Limit	
39	Toluene												No Limit	
40	1,2-Trans-Dichloroethylene												No Limit	
41	1,1,1-Trichloroethane												No Limit	
42	1,1,2-Trichloroethane												No Limit	
43	Trichloroethylene												No Limit	
44	Vinyl Chloride												No Limit	
45	2-Chlorophenol												No Limit	
46	2,4-Dichlorophenol												No Limit	
47	2,4-Dimethylphenol												No Limit	
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)												No Limit	
49	2,4-Dinitrophenol												No Limit	
50	2-Nitrophenol												No Limit	
51	4-Nitrophenol												No Limit	
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)												No Limit	
53	Pentachlorophenol												No Limit	
54	Phenol												No Limit	
55	2,4,6-Trichlorophenol												No Limit	
56	Acenaphthene												No Limit	
57	Acenaphthylene												No Limit	
58	Anthracene												No Limit	
59	Benzidine												No Limit	
60	Benzo(a)Anthracene												No Limit	

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L) Freshwater C acute = CMC tot	Freshwater C chronic = CCC tot	Saltwater C acute = CMC tot	Saltwater C chronic = CCC tot	Human Health (hh) for consumption of: Water & organisms	Human Health (hh) for consumption of: Organisms only	Lowest C or Wet Weather WLAs	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?
61	Benzo(a)Pyrene	ug/L								0.049	0.049			Y
62	Benzo(b)Fluoranthene	ug/L								0.049	0.0490			Y
63	Benzo(ghi)Perylene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
64	Benzo(k)Fluoranthene	ug/L								0.049	0.0490			Y
65	Bis(2-Chloroethoxy)Methane	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
66	Bis(2-Chloroethyl)Ether	ug/L		0.095						1.4	1.400	No	No	Y
67	Bis(2-Chloroisopropyl)Ether	ug/L		0.095						170000	170000	No	No	Y
68	Bis(2-Ethylhexyl)Phthalate	ug/L		1.6						5.9	5.9	No	No	Y
69	4-Bromophenyl Phenyl Ethe	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
70	Butylbenzyl Phthalate	ug/L		0.74						5200	5200	No	No	Y
71	2-Chloronaphthalene	ug/L		0.095						4300	4300	No	No	Y
72	4-Chlorophenyl Phenyl Ethe	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
73	Chrysene	ug/L								0.049	0.049			Y
74	Dibenzo(a,h)Anthracene	ug/L								0.049	0.0490			Y
75	1,2-Dichlorobenzene	ug/L		0.1553398						17000	17000	No	No	Y
76	1,3-Dichlorobenzene	ug/L		0.095						2600	2600	No	No	Y
77	1,4-Dichlorobenzene	ug/L		0.19						2600	2600	No	No	Y
78	3,3 Dichlorobenzidine	ug/L								0.077	0.08			Y
79	Diethyl Phthalate	ug/L		0.097						120000	120000	No	No	Y
80	Dimethyl Phthalate	ug/L		0.095						2900000	2900000	No	No	Y
81	Di-n-Butyl Phthalate	ug/L		1.2						12000	12000	No	No	Y
82	2,4-Dinitrotoluene	ug/L		0.19						9.10	9.10	No	No	Y
83	2,6-Dinitrotoluene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
84	Di-n-Octyl Phthalate	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
85	1,2-Diphenylhydrazine	ug/L		0.095						0.54	0.540	No	No	Y
86	Fluoranthene	ug/L		0.095						370	370	No	No	Y
87	Fluorene	ug/L		0.095						14000	14000	No	No	Y
88	Hexachlorobenzene	ug/L								0.00077	0.00077			Y
89	Hexachlorobutadiene	ug/L		0.19						50	50.00	No	No	Y
90	Hexachlorocyclopentadiene	ug/L		0.095						17000	17000	No	No	Y
91	Hexachloroethane	ug/L		0.19						8.9	8.9	No	No	Y
92	Indeno(1,2,3-cd)Pyrene	ug/L								0.049	0.0490			Y
93	Isophorone	ug/L		0.095						600	600.0	No	No	Y
94	Naphthalene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
95	Nitrobenzene	ug/L		0.095						1900	1900	No	No	Y
96	N-Nitrosodimethylamine	ug/L		0.095						8.10	8.10000	No	No	Y
97	N-Nitrosodi-n-Propylamine	ug/L		0.095						1.40	1.400	No	No	Y
98	N-Nitrosodiphenylamine	ug/L		0.095						16	16.0	No	No	Y
99	Phenanthrene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
100	Pyrene	ug/L		0.095						11000	11000	No	No	Y
101	1,2,4-Trichlorobenzene	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
102	Aldrin	ug/L			3.00					0.00014	0.00014			Y
103	alpha-BHC	ug/L		0.0024						0.013	0.0130	No	No	Y
104	beta-BHC	ug/L		0.0038						0.046	0.046	No	No	Y
105	gamma-BHC	ug/L		0.0028	0.95					0.063	0.063	No	No	Y
106	delta-BHC	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	Y
107	Chlordane	ug/L			2.40	0.00				0.00059	0.00059			Y
108	4,4'-DDT	ug/L			1.10	0.00				0.00059	0.00059			Y
109	4,4'-DDE (linked to DDT)	ug/L								0.00059	0.00059			Y
110	4,4'-DDD	ug/L								0.00084	0.00084			Y
111	Dieldrin	ug/L			0.24	0.06				0.00014	0.00014			Y
112	alpha-Endosulfan	ug/L		0.0019	0.22	0.056				240	0.0560	No	No	Y
113	beta-Endolsulfan	ug/L		0.0019	0.22	0.056				240	0.0560	No	No	Y
114	Endosulfan Sulfate	ug/L		0.0028						240	240	No	No	Y
115	Endrin	ug/L		0.0019	0.086	0.036				0.81	0.0360	No	No	Y
116	Endrin Aldehyde	ug/L		0.0019						0.81	0.81	No	No	Y
117	Heptachlor	ug/L			0.52	0.0038				0.00021	0.00021			Y
118	Heptachlor Epoxide	ug/L			0.52	0.0038				0.00011	0.00011			Y
119-125	PCBs sum (2)	ug/L	0.6	0.382		0.01				0.00017	0.00017	Yes	Yes	Y
126	Toxaphene	ug/L			0.73	0.0002				0.00075	0.0002			Y
	Total Ammonia (as N)	mg/L	0.788	0.88	10.10	2.3000					2.3000	No	No	N

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh
61	Benzo(a)Pyrene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
62	Benzo(b)Fluoranthene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
63	Benzo(ghi)Perylene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
64	Benzo(k)Fluoranthene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
65	Bis(2-Chloroethoxy)Methane	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
66	Bis(2-Chloroethyl)Ether	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
67	Bis(2-Chloroisopropyl)Ether	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
68	Bis(2-Ethylhexyl)Phthalate	Y	1.6		N	No detected value of B, Step 7		No	MEC<C & B is ND			
69	4-Bromophenyl Phenyl Ethe	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
70	Butylbenzyl Phthalate	N		0.74		B<=C, Step 7		No	MEC<C & B<=C			
71	2-Chloronaphthalene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
72	4-Chlorophenyl Phenyl Ethe	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
73	Chrysene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
74	Dibenzo(a,h)Anthracene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
75	1,2-Dichlorobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
76	1,3-Dichlorobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
77	1,4-Dichlorobenzene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
78	3,3 Dichlorobenzidine	Y	0.49		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
79	Diethyl Phthalate	N		0.54		B<=C, Step 7		No	MEC<C & B<=C			
80	Dimethyl Phthalate	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
81	Di-n-Butyl Phthalate	N		0.4571429		B<=C, Step 7		No	MEC<C & B<=C			
82	2,4-Dinitrotoluene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
83	2,6-Dinitrotoluene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
84	Di-n-Octyl Phthalate	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
85	1,2-Diphenylhydrazine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
86	Fluoranthene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
87	Fluorene	N		0.26		B<=C, Step 7		No	MEC<C & B<=C			
88	Hexachlorobenzene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
89	Hexachlorobutadiene	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
90	Hexachlorocyclopentadiene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
91	Hexachloroethane	Y	0.19		N	No detected value of B, Step 7		No	MEC<C & B is ND			
92	Indeno(1,2,3-cd)Pyrene	Y	0.095		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
93	Isophorone	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
94	Naphthalene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
95	Nitrobenzene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
96	N-Nitrosodimethylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
97	N-Nitrosodi-n-Propylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
98	N-Nitrosodiphenylamine	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
99	Phenanthrene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
100	Pyrene	Y	0.095		N	No detected value of B, Step 7		No	MEC<C & B is ND			
101	1,2,4-Trichlorobenzene	Y	0.095		N	No Criteria	No Criteria	Uc	No Criteria			
102	Aldrin	Y				No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
103	alpha-BHC	Y				No detected value of B, Step 7		No	MEC<C & B is ND			
104	beta-BHC	Y	0.0035		N	No detected value of B, Step 7		No	MEC<C & B is ND			
105	gamma-BHC	Y	0.0027		N	No detected value of B, Step 7		No	MEC<C & B is ND			
106	delta-BHC	Y	0.0031		N	No Criteria	No Criteria	Uc	No Criteria			
107	Chlordane	Y	0.038		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
108	4,4'-DDT	Y	0.0035		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
109	4,4'-DDE (linked to DDT)	Y	0.0027		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
110	4,4'-DDD	Y	0.0019		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
111	Dieldrin	Y	0.0018		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
112	alpha-Endosulfan	N		0.037		B<=C, Step 7		No	MEC<C & B<=C			
113	beta-Endolsulfan	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
114	Endosulfan Sulfate	Y	0.0027		N	No detected value of B, Step 7		No	MEC<C & B is ND			
115	Endrin	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
116	Endrin Aldehyde	Y	0.0018		N	No detected value of B, Step 7		No	MEC<C & B is ND			
117	Heptachlor	Y	0.0027		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
118	Heptachlor Epoxide	Y	0.0022		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
119-125	PCBs sum (2)	N		0.4		Limit required, B>C & pollutant dete		Yes	MEC>=C	0.00017	2.01	0.00034
126	Toxaphene	Y	0.22		Y	No detected value of B, Step 7		No	UD; effluent ND, MDL>C, and			
	Total Ammonia (as N)					No detected value of B, Step 7		No	Ud;MEC<C & no B		2.28	

CTR#	Parameters	AQUATIC LIFE CALCULATIONS									LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan												
		ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL		
61	Benzo(a)Pyrene												No Limit	
62	Benzo(b)Fluoranthene												No Limit	
63	Benzo(ghi)Perylene												No Limit	
64	Benzo(k)Fluoranthene												No Limit	
65	Bis(2-Chloroethoxy)Methane												No Limit	
66	Bis(2-Chloroethyl)Ether												No Limit	
67	Bis(2-Chloroisopropyl)Ether												No Limit	
68	Bis(2-Ethylhexyl)Phthalate												No Limit	
69	4-Bromophenyl Phenyl Ethe												No Limit	
70	Butylbenzyl Phthalate												No Limit	
71	2-Chloronaphthalene												No Limit	
72	4-Chlorophenyl Phenyl Ethe												No Limit	
73	Chrysene												No Limit	
74	Dibenzo(a,h)Anthracene												No Limit	
75	1,2-Dichlorobenzene												No Limit	
76	1,3-Dichlorobenzene												No Limit	
77	1,4-Dichlorobenzene												No Limit	
78	3,3 Dichlorobenzidine												No Limit	
79	Diethyl Phthalate												No Limit	
80	Dimethyl Phthalate												No Limit	
81	Di-n-Butyl Phthalate												No Limit	
82	2,4-Dinitrotoluene												No Limit	
83	2,6-Dinitrotoluene												No Limit	
84	Di-n-Octyl Phthalate												No Limit	
85	1,2-Diphenylhydrazine												No Limit	
86	Fluoranthene												No Limit	
87	Fluorene												No Limit	
88	Hexachlorobenzene												No Limit	
89	Hexachlorobutadiene												No Limit	
90	Hexachlorocyclopentadiene												No Limit	
91	Hexachloroethane												No Limit	
92	Indeno(1,2,3-cd)Pyrene												No Limit	
93	Isophorone												No Limit	
94	Naphthalene												No Limit	
95	Nitrobenzene												No Limit	
96	N-Nitrosodimethylamine												No Limit	
97	N-Nitrosodi-n-Propylamine												No Limit	
98	N-Nitrosodiphenylamine												No Limit	
99	Phenanthrene												No Limit	
100	Pyrene												No Limit	
101	1,2,4-Trichlorobenzene												No Limit	
102	Aldrin												No Limit	
103	alpha-BHC												No Limit	
104	beta-BHC												No Limit	
105	gamma-BHC												No Limit	
106	delta-BHC												No Limit	
107	Chlordane												No Limit	
108	4,4'-DDT												No Limit	
109	4,4'-DDE (linked to DDT)												No Limit	
110	4,4'-DDD												No Limit	
111	Dieldrin												No Limit	
112	alpha-Endosulfan												No Limit	
113	beta-Endolsulfan												No Limit	
114	Endosulfan Sulfate												No Limit	
115	Endrin												No Limit	
116	Endrin Aldehyde												No Limit	
117	Heptachlor												No Limit	
118	Heptachlor Epoxide												No Limit	
119-125	PCBs sum (2)	0.32		0.53	0.01	0.01	1.55	0.01	3.11	0.022997	0.00017	0.00034		
126	Toxaphene												No Limit	
	Total Ammonia (as N)	0.25	2.55	0.44	1.02	1.02	1.74	1.78	3.96	4.041375	1.8	4.0		

Ud = Undetermined due to lack of data
Uc = Undetermined due to lack of CTR Water Quality Criteria
C = Water Quality Criteria

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)						Lowest C or Wet Weather WLAs			
					Freshwater		Saltwater		Human Health (hh) for consumption of:					
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only		MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?

		REASONABLE POTENTIAL ANALYSIS (RPA)								HUMAN HEALTH CALCULATIONS		
										Organisms only		
CTR#	Parameters	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh

		AQUATIC LIFE CALCULATIONS									LIMITS			
CTR#		Saltwater / Freshwater / Basin Plan												
	Parameters	ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL	Recommendation	Comment

B = Background receiving water data