



SFPP, L.P.
Operating Partnership

February 9, 2015

California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Re: Effluent Monitoring Report
October through December 2014
SFPP, L.P. Norwalk Pump Station
15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Attention: Information Technology Unit

In reference to the subject National Pollutant Discharge Elimination System (NPDES) permit, please find enclosed the Fourth Quarter 2014 Effluent Monitoring Report for the subject discharge.

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.

Executed on the 9th day of February 2015.
at 4:05 p.m.

A handwritten signature in blue ink, appearing to read 'Stephen Defibaugh', is written over a horizontal line.

_____ (signature)

Stephen T. Defibaugh (printed name)

Remediation Project Manager (title)



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90017
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February 10, 2015

495811.A1.04

Mr. Stephen Defibaugh
Kinder Morgan Energy Partners, L.P.
1100 Town and Country Road
Orange, California 92868

Subject: Effluent Monitoring Report, October 1 to December 31, 2014 (Fourth Quarter 2014)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Dear Mr. Defibaugh:

This report has been prepared by CH2M HILL Engineers, Inc. (CH2M HILL) on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize National Pollutant Discharge Elimination System (NPDES) monitoring related to the discharge of treated groundwater from SFPP's product recovery and groundwater extraction (GWE) system. This system is installed at the SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site).

SFPP performed certain operations, maintenance, and monitoring tasks on the product recovery and GWE systems. SFPP retained CH2M HILL to prepare this report based on the NPDES monitoring performed by SFPP. This report describes NPDES monitoring activities during the period of October 1 to December 31, 2014.

Remediation System

The remediation system at the site consists of soil vapor extraction (SVE) and extraction of free product and/or groundwater (total fluids extraction [TFE]) for product recovery, GWE for hydraulic control, and treatment of extracted soil vapors and groundwater. SVE is performed using a blower to remove soil vapors at a rate of up to 3,000 standard cubic feet per minute (scfm) from up to 33 SVE wells. The extracted vapors are conveyed to a knockout tank that separates entrained moisture from the soil vapors. Soil vapors are then treated in a catalytic oxidizer prior to emission to the atmosphere. Operation of the SVE and treatment system is conducted in accordance with Permit to Operate No. F13759 and No. F14166 issued by the South Coast Air Quality Management District (SCAQMD).

The free product and GWE portion of the system consists of 20 extraction wells located in the south-central part of the site and seven extraction wells located in the southeastern part of the site. Seven extraction wells in the south-central area (GMW-O-11, GMW-O-20, GMW-O-23, GMW-24, MW-SF-11, MW-SF-14, and MW-SF-16) and three wells in the southeastern area (GMW-36, GMW-O-15, and GMW-O-18) are currently equipped with pneumatically operated top-loading pumps. Based on the reduced lateral extent and low concentrations of volatile organic compounds (VOCs) west of the site, the West Side Barrier (WSB) GWE system was shut down in August 2008.

Free product and groundwater recovered by pneumatically operated top-loading total fluids pumps in the south-central and southeastern parts of the site, along with the liquid condensate from the knockout tank, are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank

and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite, 3,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates, such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). In accordance with the NPDES permit (No. CA0063509, CI No. 7497), the treated groundwater passes through polishing LGAC units prior to discharge.

In addition, free product was routinely removed from select wells by hand bailing to enhance mass removal while the GWE was off in October and November 2014. Free product thicknesses have increased in some wells and have been initially detected in other wells. It is believed that increased product thicknesses observed during the fourth quarter 2014 are indicative of continued declining water levels across the site. The current low water levels have allowed residual product to drain from pore spaces within the smear zone and collect in certain wells, or increase in thickness in wells with measureable product already present.

Summary of Quarterly Operations

Approximately 191,276 gallons of groundwater were extracted during the fourth quarter 2014. This total includes groundwater extracted from the south-central and southeastern areas during the month of December 2014. Groundwater extraction was discontinued on July 29, 2014, to facilitate processing of a modification to SCAQMD Permit No. F14166 for the groundwater treatment portion of the remediation systems. The GWE system was restarted on December 1, 2014, and operated throughout month of December 2014 during this quarter. No water was extracted from the WSB area during the fourth quarter 2014. Table 1 summarizes the average daily flow rate during the reporting period.

During the fourth quarter 2014, approximately 635 gallons of free product was removed from select remediation wells by hand bailing. Recovered free product was hauled away and disposed of at KMEP-approved disposal facilities as described in the Waste Hauling section of this report.

Routine Effluent Monitoring

Effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2011-0095. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent) and RSW-001 (50 feet upstream of the discharge in Coyote Creek). Samples collected during this monitoring period include monthly, quarterly, and annual samples (including acute and chronic toxicity).

Toxicity samples were shipped to CH2M HILL's Applied Sciences Laboratory (ASL) in Corvallis, Oregon, for analysis; all remaining compliance samples were shipped to Advanced Technology Laboratories (ATL) in Las Vegas, Nevada, for analysis. ASL and ATL are certified by the National Environmental Laboratory Accreditation Program and the California Department of Public Health Environmental Laboratory Accreditation Program. The samples were analyzed in accordance with current U.S. Environmental Protection Agency (EPA) guidelines or as specified in the WDRs for the site.

Atherinops affinis (topsmelt) was used in lieu of the previously used toxicity test species under this permit due to the slightly brackish (saline) water conditions of the effluent and receiving water. The rationale for the change in test species was documented in the report titled, *Cause of Apparent Chronic Toxicity and Planned Corrective Action Plan*, prepared by CH2M HILL and submitted to the Regional Water Quality Control Board (RWQCB) on December 11, 2013.

Summary of Compliance Results

Analytical results for the monthly, quarterly, and annual effluent monitoring are summarized in Table 2. Analytical results for remaining priority pollutants at the effluent are summarized in Table 3. Analytical results for receiving water (50 feet upstream of the discharge in Coyote Creek) are summarized in Table 4. Table 5 summarizes the results of the tetrachlorodibenzodioxin (TCDD) equivalents for both the effluent and

receiving water. As shown in the tables, all discharge limits for the treatment system effluent were met during the reporting period. There are no receiving water discharge limitations under the permit.

Table 6 provides the results of the annual acute and chronic toxicity samples (24-hour composites) that were collected from the remediation system effluent between December 16 and December 23, 2014. As shown in Table 6, acute and chronic toxicity did not exceed the permit triggers (less than 90 percent survival and greater than 1 chronic toxicity unit [TUC], respectively) during this sampling event.

The laboratory reports and chain-of-custody documents for the effluent and receiving water samples collected during this monitoring period are included as Appendix A.

Waste Hauling

Provided below is a summary of liquid and solid waste removed from the site during the fourth quarter 2014.

Liquids

- Approximately 550 gallons of non-Resource Conservation and Recovery Act (RCRA) hazardous waste liquids (from manual product removal) were removed from the site on December 12, 2014, by Belshire Environmental Service of 25971 Towne Centre Drive, Foothill Ranch, California 92610. The waste was transported to Demenno/Kerdoon at 2000 North Alameda Street, Compton, California 90222.

Solids

- Approximately 15 yards of nonhazardous waste solids (biosparge well drill cuttings) were removed from the site on October 1, 2014, by Patriot Environmental Services (Patriot) of 508 East E. Street, Wilmington, California 90744, and transported to Filter Recycling Services, Inc., at 180 West Monte Avenue, Bloomington, California 92316.
- Approximately 15 yards of nonhazardous waste solids (biosparge well drill cuttings) were removed from the site on October 2, 2014, by Patriot and transported to Filter Recycling Services, Inc.

Copies of the waste manifests are included in Appendix B.

Annual Review of Stormwater Pollution Prevention Plan, Best Management Practices Plan, and Spill Contingency Plan

As required in Section IX.B.2 of the Monitoring and Reporting Program, the project Stormwater Pollution Prevention Plan (SWPPP), Best Management Practices (BMP) Plan, and Spill Contingency Plan (SCP) are reviewed annually and updated as needed to ensure all actual and potential sources of pollutants in wastewater and stormwater discharged from the facility are addressed in the plans. A combined SWPPP/BMP Plan and SCP was provided to the RWQCB on September 29, 2011. An amendment to the SWPPP/BMP Plan was provided to the RWQCB on February 26, 2014, to address changes to the stormwater collection system at the site and the addition of an acid delivery system to the groundwater treatment system (GWTS). These documents have been reviewed and should be updated to reflect the following changes:

- The volume of the polyethylene hydrochloric acid (HCL) tote changed from a 600-gallon capacity to a 540-gallon capacity. This HCL tote is within a secondary containment (650-gallon) and staged within a concrete containment pad. The liquid HCL (31 percent solution) is used to control the pH of the pretreated groundwater and reduce calcium carbonate precipitates from forming in the FBBRs and downstream carbon vessels.
- The combined volume of the two concrete equipment pads and sump changed from 5,400 gallons to 7,942 gallons as a result of increasing the height of the concrete spill containment berms. The main

remediation equipment pad (for SVE and GWTS) volume is now 4,500 gallons; the equipment pad for the FBBRs is 3,200 gallons; and the sump volume is 242 gallons.

- A 500-gallon polyethylene potable water tank, a 2-horsepower (hp) centrifugal pump, and an eye wash station were added. The eye wash station is located within the FBBR concrete equipment pad area. The potable water tank is located east of the FBBR equipment pad and north of the main equipment pad.
- A 500-gallon polyethylene backwash disinfection tank, 3-hp recirculation pump, and associated piping, located within the main equipment pad, were added. The backwash tank is used to treat backwash water from the lead carbon vessels. The backwash water frequently contains biological mass that can clog the carbon vessels. Backwashing is accomplished by using pretreated groundwater from the equalization tank. Backwash water from the carbon vessels can then be treated with a dilute bleach (HCL) solution, if needed, to destroy biological mass before being sent to the head of the treatment system. A float switch was installed in the tank to indicate when the backwash tank becomes full. Once full, the water from the backwash tank is pumped to the surge tank (near the head of the GWTS, after the OWS) for additional treatment.

The above changes will be incorporated into the revised SWPPP/BMP Plan and SCP documents and kept at the site for reference.

Should you require any further information, please contact me at (714) 429-2020.

Sincerely,

CH2M HILL Engineers, Inc.



Vidal Cortes
Project Engineer

Attachments:

- Table 1 – Effluent Flow Rate Measurements, Fourth Quarter 2014
- Table 2 – NPDES Effluent Monitoring, Fourth Quarter 2014
- Table 3 – NPDES Effluent Monitoring, Remaining Priority Pollutants, Fourth Quarter 2014
- Table 4 – NPDES Receiving Water Monitoring, Fourth Quarter 2014
- Table 5 – NPDES Effluent and Receiving Water TCDD Equivalent Calculation, Fourth Quarter 2014
- Table 6 – NPDES Effluent Chronic and Acute Toxicity Monitoring, Fourth Quarter 2014
- Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents (CD ROM)
- Appendix B – Waste Manifests

Tables

TABLE 1

Effluent Flow Rate Measurements, Fourth Quarter 2014

SFPP Norwalk Pump Station, Norwalk, California

Date ¹	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd)
12/01/14	30
12/02/14	0
12/03/14	34
12/04/14	0
12/05/14	4,477
12/06/14	8,464
12/07/14	8,565
12/08/14	8,548
12/09/14	8,637
12/10/14	8,290
12/11/14	8,544
12/12/14	8,652
12/13/14	9,664
12/14/14	6,659
12/15/14	4,583
12/16/14	6,837
12/17/14	6,786
12/18/14	8,851
12/19/14	8,278
12/20/14	8,331
12/21/14	5,929
12/22/14	4,757
12/23/14	6,558
12/24/14	8,037
12/25/14	4,821
12/26/14	4,653
12/27/14	4,687
12/28/14	4,712
12/29/14	4,479
12/30/14	7,421
12/31/14	10,992

Note

1. GWTS was turned off between July 29 and November 30, 2014, for South Coast Air Quality Management District (SCAQMD) permit modification; therefore, there was no flow during October and November 2014.

Abbreviations

gpd = gallons per day

TABLE 2

NPDES Effluent Monitoring, Fourth Quarter 2014
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ³	RL ³	ML ¹	12/16/2014	12/22/2014	Discharge Limits ²	
									Monthly Average	Daily Maximum
Temperature	Monthly	--	°F	--	--	NE	60	--	--	86
Oil and Grease	Monthly	EPA 1664A	mg/L	0.82	4.1	NE	<0.82	--	10	15
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<16	--	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	13	50	NE	<13	--	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	9.6	50	NE	<9.6	--	--	--
Total TPH	Monthly	EPA 8015B	µg/L	22	50	NE	<22	--	NE	100
Settleable Solids	Monthly	SM 2540F	mL/L/hr	0.1	0.1	NE	--	<0.1	0.1	0.3
Total Suspended Solids	Monthly	SM 2540D	mg/L	10	10	NE	<10	--	50	75
Phenolics	Monthly	EPA 420.1	µg/L	150	300	50	<150	--	300	NE
Benzene	Monthly	EPA 8260B	µg/L	0.048	1	2.0	<0.048	--	1	NE
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.054	0.5	1.0	<0.054	--	5	NE
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.04	0.5	2.0	<0.044	--	0.5	NE
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.036	1	2.0	<0.036	--	10	NE
Toluene	Monthly	EPA 8260B	µg/L	0.025	2	2.0	<0.025	--	10	NE
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.098	1	NE	<0.098	--	NE	5.0
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	0.4	5	NE	<0.4	--	NE	12
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2	NE	<1.5	--	10	NE
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.04	1	0.5	<0.04	--	16	33
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.04	1	0.5	<0.04	--	13	27
Lead (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.011	0.5	0.5	<0.011	--	8.2	15
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.011	0.5	0.5	<0.011	--	34	106
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.05	0.2	<0.018	--	0.051	0.14
Selenium (total recoverable)	Monthly	EPA 200.8	µg/L	0.069	0.5	2.0	<0.069	--	3.4	9.2
Thallium (total recoverable)	Monthly	EPA 200.8	µg/L	0.008	0.5	1.0	<0.008	--	6.3	13
Zinc (total recoverable) (wet weather) ⁴	Monthly	EPA 200.8	µg/L	0.23	10	1.0	9.1 J	--	79	158
Chromium VI	Monthly	EPA 7199	µg/L	0.016	0.2	0.5	--	0.41	8.1	16
pH	Quarterly	--	s.u.	--	--	NE	7.1	--	--	6.5/8.5
Ammonia Nitrogen (as N)	Quarterly	SM 4500 NH3C	mg/L	0.05	0.1	NE	<0.05	--	NE	NE
Di-isopropyl Ether	Quarterly	EPA 8260B	µg/L	0.034	1	NE	<0.034	--	NE	NE
Methylene Blue Active Substances	Quarterly	SM 5540C	mg/L	0.05	0.05	NE	--	<0.05	NE	NE
Tert-amyl-methyl Ether	Quarterly	EPA 8260B	µg/L	0.054	1	NE	<0.054	--	NE	NE
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.1	NE	--	<0.1	50	75
Methyl ethyl ketone	Quarterly	EPA 8260B	µg/L	0.7	10	NE	<0.7	--	50	NE
Other Priority Pollutants (see Table 3)	Quarterly ⁵	--	--	--	--	--	--	--	NE	NE
BOD	Annually	SM 5210B	mg/L	5	5	NE	--	9.2	20	30
Nitrate + Nitrite as N	Annually	EPA 300.0	mg/L	0.032	0.5	NE	--	0.9	NE	NE
Sulfides	Annually	SM 4500 S2-D	mg/L	0.01	0.05	NE	<0.01	--	NE	NE
TCDD Equivalents (see Table 5)	Annually	EPA 8290	pg/L	--	--	NE	<1.4	--	NE	NE

Notes

1. ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also 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.
2. California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).
3. The highest MDL and RL during this reporting period is shown.
4. There are no dry weather limitations for zinc.
5. Effluent monitoring shall occur quarterly for the first two years after the Order is adopted. After the first two years, effluent shall be monitored once per year.
-- = not measured or not analyzed.

Abbreviations

BOD = biological oxygen demand (5 days at 20 degrees Celsius)
° F = degrees Fahrenheit
DNQ = detected, but not quantified. Result is greater than or equal to the laboratory MDL but less than the ML (or RL if no ML is listed).
J = detected at a concentration below the RL and above the MDL. Reported value is estimated.
mg/L = milligrams per liter
µg/L = micrograms per liter
pg/L = picograms per liter
< = not detected above the MDL
MDL = laboratory method detection limit
RL = reporting limit
ML = minimum level. See note 1.
NE = not established
s.u. = standard units

TABLE 3

NPDES Effluent Monitoring, Remaining Priority Pollutants, Fourth Quarter 2014
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	12/16/2014	ML ¹
Antimony	EPA 200.8	µg/L	0.18	0.50	<0.18	0.50
Arsenic	EPA 200.8	µg/L	0.027	0.10	37	2
Beryllium	EPA 200.8	µg/L	0.010	0.5	<0.01	0.50
Cadmium	EPA 200.8	µg/L	0.013	0.25	<0.013	0.25
Nickel	EPA 200.8	µg/L	0.032	1.0	0.5 J	1
Silver	EPA 200.8	µg/L	0.09	0.25	<0.094	0.25
Total Chromium	EPA 200.8	µg/L	0.03	0.50	0.29 J	0.50
Chromium (III) (Total Cr - Cr VI)	Calculated	µg/L	--	--	--	NE
Aroclor-1016	EPA 8082	µg/L	0.13	0.60	<0.13	0.5
Aroclor-1221	EPA 8082	µg/L	0.22	1.2	<0.22	0.5
Aroclor-1232	EPA 8082	µg/L	0.087	0.60	<0.087	0.5
Aroclor-1242	EPA 8082	µg/L	0.078	0.60	<0.078	0.5
Aroclor-1248	EPA 8082	µg/L	0.10	0.60	<0.098	0.5
Aroclor-1254	EPA 8082	µg/L	0.18	0.60	<0.18	0.5
Aroclor-1260	EPA 8082	µg/L	0.110	0.60	<0.11	0.5
4,4'-DDD	EPA 8081A	µg/L	0.0087	0.060	<0.0087	0.05
4,4'-DDE	EPA 8081A	µg/L	0.0073	0.060	<0.0073	0.05
4,4'-DDT	EPA 8081A	µg/L	0.0110	0.060	<0.011	0.01
Aldrin	EPA 8081A	µg/L	0.0081	0.030	<0.0081	0.005
Alpha Endosulfan	EPA 8081A	µg/L	0.0043	0.030	<0.0043	0.02
Alpha-BHC	EPA 8081A	µg/L	0.0039	0.030	<0.0039	0.01
Beta Endosulfan	EPA 8081A	µg/L	0.0075	0.060	<0.0075	0.01
Beta-BHC	EPA 8081A	µg/L	0.0046	0.030	<0.0046	0.005
Chlordane	EPA 8081A	µg/L	0.036	0.30	<0.036	0.1
Delta-BHC	EPA 8081A	µg/L	0.0034	0.030	<0.0034	0.005
Dieldrin	EPA 8081A	µg/L	0.0077	0.060	<0.0077	0.01
Endosulfan Sulfate	EPA 8081A	µg/L	0.0066	0.060	<0.0066	0.05
Endrin	EPA 8081A	µg/L	0.0095	0.060	<0.0095	0.01
Endrin Aldehyde	EPA 8081A	µg/L	0.0064	0.060	<0.0064	0.01
Gamma-BHC	EPA 8081A	µg/L	0.0043	0.030	<0.0043	0.02
Heptachlor	EPA 8081A	µg/L	0.009	0.030	<0.009	0.01
Heptachlor Epoxide	EPA 8081A	µg/L	0.0049	0.030	<0.0049	0.01
Toxaphene	EPA 8081A	µg/L	0.19	3.0	<0.19	0.5
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.072	1.0	<0.072	2
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.10	1.0	<0.1	1
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.042	1.0	<0.042	2
1,1-Dichloroethene	EPA 8260B	µg/L	0.16	1.0	<0.16	2
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.1	1.0	<0.1	5
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.048	1.0	<0.048	2
1,2-Dichloropropane	EPA 8260B	µg/L	0.094	1.0	<0.094	1
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.061	1.0	<0.061	1
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.078	1.0	<0.078	1
2-Chloroethyl Vinyl Ether	EPA 8260B	µg/L	2.5	5.0	<2.5	1
Acrolein	EPA 8260B	µg/L	0.89	20	<0.89	5
Acrylonitrile	EPA 8260B	µg/L	0.68	20	<0.68	2
Bromodichloromethane	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Bromoform	EPA 8260B	µg/L	0.061	1.0	<0.061	2
Bromomethane	EPA 8260B	µg/L	0.073	1.0	0.22 J	2
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.043	1.0	<0.043	2
Carbon Tetrachloride	EPA 8260B	µg/L	0.057	0.5	<0.057	2
Chlorobenzene	EPA 8260B	µg/L	0.028	1.0	<0.028	2
Chloroethane	EPA 8260B	µg/L	0.099	1.0	<0.099	2
Chloroform	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Chloromethane	EPA 8260B	µg/L	0.043	1.0	<0.043	2
Dibromochloromethane	EPA 8260B	µg/L	0.057	1.0	<0.057	2
Hexachlorobutadiene	EPA 8260B	µg/L	0.07	1.0	<0.07	1
Methylene Chloride	EPA 8260B	µg/L	0.28	2.0	<0.28	2
Naphthalene	EPA 8260B	µg/L	0.06	1.0	<0.062	1
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.07	1.0	<0.074	1
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.05	1.0	<0.051	2
Tetrachloroethene	EPA 8260B	µg/L	0.12	1.0	<0.12	2
Trichloroethene	EPA 8260B	µg/L	0.074	1.0	<0.074	2
Vinyl Chloride	EPA 8260B	µg/L	0.044	0.5	<0.044	2
1,2-Diphenylhydrazine	EPA 8270C	µg/L	2.6	10	<2.6	1
2,4,6-Trichlorophenol	EPA 8270C	µg/L	2.8	10	<2.8	10
2,4-Dichlorophenol	EPA 8270C	µg/L	2.9	10	<2.9	5
2,4-Dimethylphenol	EPA 8270C	µg/L	2.7	10	<2.7	2
2,4-Dinitrophenol	EPA 8270C	µg/L	2.4	51	<2.4	5
2,4-Dinitrotoluene	EPA 8270C	µg/L	1.8	10	<1.8	5
2,6-Dinitrotoluene	EPA 8270C	µg/L	2.5	10	<2.5	5
2-Chloronaphthalene	EPA 8270C	µg/L	2.6	10	<2.6	10
2-Chlorophenol	EPA 8270C	µg/L	2.7	10	<2.7	5

TABLE 3

NPDES Effluent Monitoring, Remaining Priority Pollutants, Fourth Quarter 2014
 SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	12/16/2014	ML ¹
2-Nitrophenol	EPA 8270C	µg/L	3.0	10	<3	10
3,3'-Dichlorobenzidine	EPA 8270C	µg/L	1.4	20	<1.4	5
4,6-Dinitro-2-Methylphenol	EPA 8270C	µg/L	1.6	51	<1.6	5
4-Bromophenyl-Phenyl Ether	EPA 8270C	µg/L	2.6	10	<2.6	5
4-Chloro-3-Methylphenol	EPA 8270C	µg/L	2.6	51	<2.6	1
4-Chlorophenyl-Phenyl Ether	EPA 8270C	µg/L	2.6	10	<2.6	5
4-Nitrophenol	EPA 8270C	µg/L	1.3	51	<1.3	10
Acenaphthene	EPA 8270C	µg/L	2.9	10	<2.9	1
Acenaphthylene	EPA 8270C	µg/L	3.0	10	<3	10
Anthracene	EPA 8270C	µg/L	2.1	10	<2.1	10
Benzidine	EPA 8270C	µg/L	1.2	51	<1.2	5
Benzo (a) Anthracene	EPA 8270C	µg/L	2.0	10	<2	5
Benzo (a) Pyrene	EPA 8270C	µg/L	2.0	10	<2	10
Benzo (b) Fluoranthene	EPA 8270C	µg/L	1.6	10	<1.6	10
Benzo (g,h,i) Perylene	EPA 8270C	µg/L	2.1	10	<2.1	5
Benzo (k) Fluoranthene	EPA 8270C	µg/L	2.9	10	<2.9	10
Bis(2-Chloroethoxy) Methane	EPA 8270C	µg/L	3.1	10	<3.1	5
Bis(2-Chloroethyl) Ether	EPA 8270C	µg/L	3.3	10	<3.3	1
Bis(2-Chloroisopropyl) Ether	EPA 8270C	µg/L	3.2	10	<3.2	2
Bis(2-Ethylhexyl) Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	5
Butyl Benzyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	10
Chrysene	EPA 8270C	µg/L	2.1	10	<2.1	10
Dibenz (a,h) Anthracene	EPA 8270C	µg/L	2.2	10	<2.2	10
Diethyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	2
Dimethyl Phthalate	EPA 8270C	µg/L	2.5	10	<2.5	2
Di-n-Butyl Phthalate	EPA 8270C	µg/L	1.9	10	<1.9	10
Di-n-Octyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	10
Fluoranthene	EPA 8270C	µg/L	1.9	10	<1.9	1
Fluorene	EPA 8270C	µg/L	2.7	10	<2.7	10
Hexachlorobenzene	EPA 8270C	µg/L	2.2	10	<2.2	1
Hexachlorocyclopentadiene	EPA 8270C	µg/L	2.3	10	<2.3	5
Hexachloroethane	EPA 8270C	µg/L	2.6	10	<2.6	1
Indeno (1,2,3-c,d) Pyrene	EPA 8270C	µg/L	2.2	10	<2.2	10
Isophorone	EPA 8270C	µg/L	3.1	10	<3.1	1
Nitrobenzene	EPA 8270C	µg/L	2.8	10	<2.8	1
N-Nitrosodimethylamine	EPA 8270C	µg/L	2.8	51	<2.8	5
N-Nitroso-di-n-propylamine	EPA 8270C	µg/L	2.9	10	<2.9	5
N-Nitrosodiphenylamine	EPA 8270C	µg/L	2.4	10	<2.4	1
Pentachlorophenol	EPA 8270C	µg/L	1.0	51	<1	5
Phenanthrene	EPA 8270C	µg/L	2.4	10	<2.4	5
Phenol	EPA 8270C	µg/L	1.9	10	<1.9	1
Pyrene	EPA 8270C	µg/L	1.7	10	<1.7	10
2,3,7,8-TCDD	EPA 8290	pg/L	1.2	50	<1.2	NE
Asbestos	EPA 600 94 134, 100.1	MFL	--	--	<0.2	NE
Cyanide (Total)	SM 4500 CN-E	mg/L	0.01	0.05	<0.01	NE

Note

1. ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also 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.

Abbreviations

J = detected at a concentration below the RL and above the MDL. Reported value is estimated.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

< = not detected above the MDL

MDL = laboratory method detection limit

RL = reporting limit

ML = minimum level. See note 1.

NE = not established

RL = laboratory reporting limit

TABLE 4

NPDES Receiving Water Monitoring, Fourth Quarter 2014
 SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	12/18/2014	ML ¹
pH	--	s.u.	--	--	7.6	NE
Temperature	--	°F	--	--	68	NE
Hardness (as CaCO ₃)	SM 2340B	mg/L	1	1	230	NE
2,3,7,8-TCDD	EPA 8290	pg/L	--	--	<1.2	NE
Arsenic	EPA 200.8	µg/L	0.027	0.10	3.1	2
Lead	EPA 200.8	µg/L	0.011	0.5	0.21 J	0.5
Aroclor-1016	EPA 8082	µg/L	0.19	0.51	<0.19	0.5
Aroclor-1221	EPA 8082	µg/L	0.5	1.0	<0.5	0.5
Aroclor-1232	EPA 8082	µg/L	0.26	0.51	<0.26	0.5
Aroclor-1242	EPA 8082	µg/L	0.23	0.51	<0.23	0.5
Aroclor-1248	EPA 8082	µg/L	0.14	0.51	<0.14	0.5
Aroclor-1254	EPA 8082	µg/L	0.24	0.51	<0.24	0.5
Aroclor-1260	EPA 8082	µg/L	0.071	0.51	<0.071	0.5
Cadmium	EPA 200.8	µg/L	0.013	0.25	<0.013	0.25
Mercury	EPA 245.1	µg/L	0.018	0.05	<0.018	0.2
Antimony	EPA 200.8	µg/L	0.18	0.50	0.99	0.50
Beryllium	EPA 200.8	µg/L	0.01	0.50	0.016 J	0.50
Total Chromium	EPA 200.8	µg/L	0.03	0.50	1.3	0.50
Chromium (III) (Total Cr - Cr VI)	CALCCR3	µg/L	0.03	0.50	0.78	NA
Copper	EPA 200.8	µg/L	0.04	1	2.6	0.5
Nickel	EPA 200.8	µg/L	0.032	1.0	2.1	1
Selenium	EPA 200.8	µg/L	0.069	0.5	1.8	2.0
Silver	EPA 200.8	µg/L	0.094	0.25	<0.094	0.25
Thallium	EPA 200.8	µg/L	0.008	0.5	0.015 J	1.0
Zinc	EPA 200.8	µg/L	0.23	10	10	1.0
Chromium (VI)	EPA 7199	µg/L	0.016	0.2	0.52	0.5
4,4'-DDD	EPA 8081A	µg/L	0.013	0.051	<0.013	0.05
4,4'-DDE	EPA 8081A	µg/L	0.023	0.051	<0.023	0.05
4,4'-DDT	EPA 8081A	µg/L	0.037	0.051	<0.037	0.01
Aldrin	EPA 8081A	µg/L	0.0084	0.026	<0.0084	0.005
Alpha Endosulfan	EPA 8081A	µg/L	0.0089	0.026	<0.0089	0.02
Alpha-BHC	EPA 8081A	µg/L	0.0089	0.026	<0.0089	0.01
Beta Endosulfan	EPA 8081A	µg/L	0.021	0.051	<0.021	0.01
Beta-BHC	EPA 8081A	µg/L	0.011	0.026	<0.011	0.005
Chlordane	EPA 8081A	µg/L	0.027	0.26	<0.027	0.1
Delta-BHC	EPA 8081A	µg/L	0.015	0.026	<0.015	0.005
Dieldrin	EPA 8081A	µg/L	0.018	0.051	<0.018	0.01
Endosulfan Sulfate	EPA 8081A	µg/L	0.027	0.051	<0.027	0.05
Endrin	EPA 8081A	µg/L	0.014	0.051	<0.014	0.01
Endrin Aldehyde	EPA 8081A	µg/L	0.028	0.051	<0.028	0.01
Gamma-BHC	EPA 8081A	µg/L	0.012	0.026	<0.012	0.02
Heptachlor	EPA 8081A	µg/L	0.013	0.026	<0.013	0.01
Heptachlor Epoxide	EPA 8081A	µg/L	0.0083	0.026	<0.0083	0.01
Toxaphene	EPA 8081A	µg/L	0.16	2.6	<0.16	0.5
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.072	1.0	<0.072	2
1,1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.1	1.0	<0.1	1
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.042	1.0	<0.042	2
1,1-Dichloroethane	EPA 8260B	µg/L	0.054	0.50	<0.054	1.0
1,1-Dichloroethene	EPA 8260B	µg/L	0.16	1.00	<0.16	2
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.100	1.0	<0.1	5
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.048	1.0	<0.048	2
1,2-Dichloroethane	EPA 8260B	µg/L	0.044	0.50	<0.044	2.0
1,2-Dichloropropane	EPA 8260B	µg/L	0.094	1.0	<0.094	1
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.061	1.0	<0.061	1
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.078	1.0	<0.078	1
2-Chloroethyl Vinyl Ether	EPA 8260B	µg/L	2.5	5.0	<2.5	1
Acrolein	EPA 8260B	µg/L	0.89	20	<0.89	5
Acrylonitrile	EPA 8260B	µg/L	0.68	20	<0.68	2
Benzene	EPA 8260B	µg/L	0.048	1.0	<0.048	2.0
Bromodichloromethane	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Bromoform	EPA 8260B	µg/L	0.061	1.0	<0.061	2
Bromomethane	EPA 8260B	µg/L	0.073	1	0.48 J	2

TABLE 4

NPDES Receiving Water Monitoring, Fourth Quarter 2014
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	12/18/2014	ML ¹
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.04	1.0	<0.043	2
Carbon Tetrachloride	EPA 8260B	µg/L	0.06	0.5	<0.057	2
Chlorobenzene	EPA 8260B	µg/L	0.028	1.0	<0.028	2
Chloroethane	EPA 8260B	µg/L	0.099	1.0	<0.099	2
Chloroform	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Chloromethane	EPA 8260B	µg/L	0.043	1.0	<0.043	2
Dibromochloromethane	EPA 8260B	µg/L	0.057	1.0	<0.057	2
Ethylbenzene	EPA 8260B	µg/L	0.0	1	<0.036	2.0
Hexachlorobutadiene	EPA 8260B	µg/L	0.1	1	<0.07	1
Hexachlorobenzene	EPA 8270C	µg/L	2.2	10	<2.2	1
Hexachloroethane	EPA 8270C	µg/L	2.6	10	<2.6	1
Methylene Chloride	EPA 8260B	µg/L	0.28	2.0	<0.28	2
Naphthalene	EPA 8260B	µg/L	0.062	1	<0.062	1
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.074	1.0	<0.074	1
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.05	1.0	<0.051	2
Tetrachloroethene	EPA 8260B	µg/L	0.12	1.0	0.16 J	2
Toluene	EPA 8260B	µg/L	0.025	2.0	0.04 J	2.0
Trichloroethene	EPA 8260B	µg/L	0.074	1.0	<0.074	2
Vinyl Chloride	EPA 8260B	µg/L	0.044	0.5	<0.044	2
1,2-Diphenylhydrazine	EPA 8270C	µg/L	2.6	10	<2.6	1
2,4,6-Trichlorophenol	EPA 8270C	µg/L	2.8	10	<2.8	10
2,4-Dichlorophenol	EPA 8270C	µg/L	2.9	10	<2.9	5
2,4-Dimethylphenol	EPA 8270C	µg/L	2.7	10	<2.7	2
2,4-Dinitrophenol	EPA 8270C	µg/L	2.4	51	<2.4	5
2,4-Dinitrotoluene	EPA 8270C	µg/L	1.8	10	<1.8	5
2,6-Dinitrotoluene	EPA 8270C	µg/L	2.5	10	<2.5	5
2-Chloronaphthalene	EPA 8270C	µg/L	2.6	10	<2.6	10
2-Chlorophenol	EPA 8270C	µg/L	2.7	10	<2.7	5
2-Nitrophenol	EPA 8270C	µg/L	3	10	<3	10
3,3'-Dichlorobenzidine	EPA 8270C	µg/L	1.4	20	<1.4	5
4,6-Dinitro-2-Methylphenol	EPA 8270C	µg/L	1.6	51	<1.6	5
4-Bromophenyl-Phenyl Ether	EPA 8270C	µg/L	2.6	10	<2.6	5
4-Chloro-3-Methylphenol	EPA 8270C	µg/L	2.6	51	<2.6	1
4-Chlorophenyl-Phenyl Ether	EPA 8270C	µg/L	2.6	10	<2.6	5
4-Nitrophenol	EPA 8270C	µg/L	1.3	51	<1.3	10
Acenaphthene	EPA 8270C	µg/L	2.9	10	<2.9	1
Acenaphthylene	EPA 8270C	µg/L	3	10	<3	10
Anthracene	EPA 8270C	µg/L	2.1	10	<2.1	10
Benzidine	EPA 8270C	µg/L	1.2	51	<1.2	5
Benzo (a) Anthracene	EPA 8270C	µg/L	2	10	<2	5
Benzo (a) Pyrene	EPA 8270C	µg/L	2	10	<2	10
Benzo (b) Fluoranthene	EPA 8270C	µg/L	1.6	10	<1.6	10
Benzo (g,h,i) Perylene	EPA 8270C	µg/L	2.1	10	<2.1	5
Benzo (k) Fluoranthene	EPA 8270C	µg/L	2.9	10	<2.9	10
Bis(2-Chloroethoxy) Methane	EPA 8270C	µg/L	3.1	10	<3.1	5
Bis(2-Chloroethyl) Ether	EPA 8270C	µg/L	3.3	10	<3.3	1
Bis(2-Chloroisopropyl) Ether	EPA 8270C	µg/L	3.2	10	<3.2	2
Bis(2-Ethylhexyl) Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	5
Butyl Benzyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	10
Chrysene	EPA 8270C	µg/L	2.1	10	<2.1	10
Dibenz (a,h) Anthracene	EPA 8270C	µg/L	2.2	10	<2.2	10
Diethyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	2
Dimethyl Phthalate	EPA 8270C	µg/L	2.5	10	<2.5	2
Di-n-Butyl Phthalate	EPA 8270C	µg/L	1.9	10	<1.9	10
Di-n-Octyl Phthalate	EPA 8270C	µg/L	2.2	10	<2.2	10
Fluoranthene	EPA 8270C	µg/L	1.9	10	<1.9	1
Fluorene	EPA 8270C	µg/L	2.7	10	<2.7	10
Hexachlorocyclopentadiene	EPA 8270C	µg/L	2.3	10	<2.3	5
Indeno (1,2,3-c,d) Pyrene	EPA 8270C	µg/L	2.2	10	<2.2	10
Isophorone	EPA 8270C	µg/L	3.1	10	<3.1	1
Nitrobenzene	EPA 8270C	µg/L	2.8	10	<2.8	1
N-Nitrosodimethylamine	EPA 8270C	µg/L	2.8	51	<2.8	5

TABLE 4

NPDES Receiving Water Monitoring, Fourth Quarter 2014
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	12/18/2014	ML ¹
N-Nitroso-di-n-propylamine	EPA 8270C	µg/L	2.9	10	<2.9	5
N-Nitrosodiphenylamine	EPA 8270C	µg/L	2.4	10	<2.4	1
Pentachlorophenol	EPA 8270C	µg/L	1.0	51	<1	5
Phenanthrene	EPA 8270C	µg/L	2.4	10	<2.4	5
Phenol	EPA 8270C	µg/L	1.9	10	<1.9	1
Pyrene	EPA 8270C	µg/L	1.7	10	<1.7	10
Cyanide (Total)	SM 4500 CN-E	mg/L	0.0100	0.050	<0.01	NE
Asbestos	EPA 600 94 134, 100.1	MFL	--	--	<0.9	NE

Note

1. ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also 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.

Abbreviations

° F = degrees Fahrenheit

J = detected at a concentration below the RL and above the MDL. Reported value is estimated.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

< = not detected above the MDL

MDL = laboratory method detection limit

RL = reporting limit

ML = minimum level. See note 1.

NE = not established

RL = laboratory reporting limit

s.u. = standard units

TABLE 5

NPDES Effluent and Receiving Water TCDD Equivalent Calculation, Fourth Quarter 2014

SFPP Norwalk Pump Station, Norwalk, California

Dioxin or Furan Congener ¹	Analysis Method	Units	Effluent Concentration (12/16/14) ²	Receiving Water Concentration (12/18/14) ²	TEF	BEF	Effluent Concentration x TEF x BEF ³	Receiving Water Concentration x TEF x BEF ³
1,2,3,4,6,7,8-Hepta CDD	EPA 8290	pg/L	< 0.85	< 5.4	0.01	0.05	2.13E-04	1.35E-03
1,2,3,4,6,7,8-Hepta CDF	EPA 8290	pg/L	< 0.55	< 0.7	0.01	0.01	2.75E-05	3.50E-05
1,2,3,4,7,8,9-Hepta CDF	EPA 8290	pg/L	< 0.7	< 0.9	0.01	0.4	1.40E-03	1.80E-03
1,2,3,4,7,8-Hexa CDD	EPA 8290	pg/L	< 0.94	< 1.0	0.1	0.3	1.41E-02	1.50E-02
1,2,3,4,7,8-Hexa CDF	EPA 8290	pg/L	< 0.59	< 0.59	0.1	0.08	2.36E-03	2.36E-03
1,2,3,6,7,8-Hexa CDD	EPA 8290	pg/L	< 0.92	< 1.0	0.1	0.1	4.60E-03	5.00E-03
1,2,3,6,7,8-Hexa CDF	EPA 8290	pg/L	< 0.57	< 0.56	0.1	0.2	5.70E-03	5.60E-03
1,2,3,7,8,9-Hexa CDD	EPA 8290	pg/L	< 0.9	< 0.98	0.1	0.1	4.50E-03	4.90E-03
1,2,3,7,8,9-Hexa CDF	EPA 8290	pg/L	< 0.71	< 0.71	0.1	0.6	2.13E-02	2.13E-02
1,2,3,7,8-Penta CDD	EPA 8290	pg/L	< 1.0	< 0.95	1.0	0.9	4.50E-01	4.28E-01
1,2,3,7,8-Penta CDF	EPA 8290	pg/L	< 0.58	< 0.63	0.05	0.2	2.90E-03	3.15E-03
2,3,4,6,7,8-Hexa CDF	EPA 8290	pg/L	< 0.61	< 0.61	0.1	0.7	2.14E-02	2.14E-02
2,3,4,7,8-Penta CDF	EPA 8290	pg/L	< 0.65	< 0.67	0.5	1.6	2.60E-01	2.68E-01
2,3,7,8-Tetra CDD	EPA 8290	pg/L	< 1.2	< 0.77	1.0	1.0	6.00E-01	3.85E-01
2,3,7,8-Tetra CDF	EPA 8290	pg/L	< 0.6	< 0.62	0.1	0.8	2.40E-02	2.48E-02
Octa CDD	EPA 8290	pg/L	< 1.1	< 33	0.0001	0.01	5.50E-07	1.65E-05
Octa CDF	EPA 8290	pg/L	< 1.2	< 2.0	0.0001	0.02	1.20E-06	2.00E-06
Tetra CDD-Equivalent							1.4	1.2

Notes

1. Congeners per California Regional Water Quality Control Board Waste Discharge Requirements (WDRs)
2. If the result is not detected, the data are shown as less than (<) the method detection limit.
3. If the result is not detected, half the method detection limit for the respective congener is used to calculate TCDD-Equivalent

Abbreviations

TCDD = tetrachlorodibenzodioxin
TEF = toxicity equivalency factor
BEF = bioaccumulation equivalency factor
CDD = chlorodibenzodioxin
CDF = chlorodibenzofuran
pg/L = picograms per liter

TABLE 6

NPDES Effluent Chronic and Acute Toxicity Monitoring, Fourth Quarter 2014
SFPD Norwalk Pump Station, Norwalk, California

Analyte	Analysis Method	TRE Trigger ¹	Units	12/16/14 M-001 (Effluent)
Acute - <i>A. affinis</i> (topsmelt) - Survival	EPA-600-R-95-136	<90%	% survival	96
Chronic - <i>A. affinis</i> (topsmelt) - Survival	EPA-821-R-02-014	>1.0 ²	TUc	1.00

Notes

1. If the acute toxicity result is less than 90% survival or the chronic toxicity result is more than 1 chronic toxicity unit (TUc), then the Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan, prepared by CH2M HILL, dated September 30, 2011, will be implemented.
2. >1.0 = toxicity detected above 1 chronic toxicity unit

Abbreviations

TRE = Toxicity Reduction Evaluation
 TUc = chronic toxicity unit, where TUc = 100/NOEC
 NOEC = no observed effect concentration

Appendix A
Laboratory Analytical Reports and
Chain-of-Custody Documents (CD ROM)

Appendix B

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

NOT Required

2. Page 1 of

1

3. Emergency Response Phone

800-624-9136

4. Waste Tracking Number

5. Generator's Name and Mailing Address

SFPD-LP
1100 TOWN & COUNTRY RD
ORANGE CA 92868

Generator's Phone:

714/560 4402

Generator's Site Address (if different than mailing address)

SFPD-LP
Norwalk Tank Farm
15300 Norwalk Blvd
Norwalk CA 92662

6. Transporter 1 Company Name

Patriot Environmental Service

U.S. EPA ID Number

CAD053866794

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Filter Recycling Corp
130 West Monte
Bloomington CA 92316

U.S. EPA ID Number

Facility's Phone:

909/421-2012

CAD982444481

9. Waste Shipping Name and Description

1. NON Hazardous waste, solid (TPH contaminated soil)

10. Containers

No. Type

2 CM

11. Total Quantity

15

12. Unit WT./Vol.

4

13. Special Handling Instructions and Additional Information

Wear appropriate PPE when handling
9b.1) Profile Number: 12031321

Patriot Job #40455
Bill SFPD-LP

BNSH
1225973PL
R229919 PL

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

JAMES DYE

Signature

[Signature]

Month Day Year

10 1 14

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Transporter 2 Printed/Typed Name

Signature

Signature

Month Day Year

10 01 14

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number NOT REQUIRED 2. Page 1 of 1 3. Emergency Response Phone 800-624-9136 4. Waste Tracking Number

5. Generator's Name and Mailing Address: STPP-LP, 1100 TOWN AND COUNTRY RD., ORANGE CA 92668, (714) 560-4400
 Generator's Site Address (if different than mailing address): NORWALK TANK FARM, 15306 NORWALK BLVD, NORWALK CA. 90650

6. Transporter 1 Company Name: PATRIOT ENVIRONMENTAL SERVICES U.S. EPA ID Number: CAD053866794

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: FILTER RECYCLING CORP., 180 WEST MONTE BLOOMINGTON CA. 92316, (909) 421-2012 U.S. EPA ID Number: CAD982444481

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. NON HAZARDOUS WASTE, SOLID (TPH CONTAMINATED SOIL)	2	CM	15	Y
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: WEAR APPROPRIATE PPE WHEN HANDLING! PATRIOT JOB # SDHOUSS 96.1) PROFILE NUMBER 812031521 BILL: STPP-LP

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: JAMES DUIS Signature: [Signature] Month: 10 Day: 2 Year: 14

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: JESUS ESPINOZA Signature: [Signature] Month: 10 Day: 2 Year: 14

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

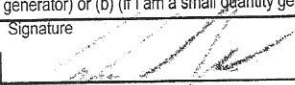
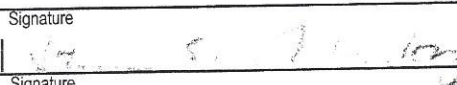
Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Signature: Month: Day: Year:

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAT080033082		2. Page 1 of 1		3. Emergency Response Phone (310) 518-7700		4. Manifest Tracking Number 007636788 FLE											
		5. Generator's Name and Mailing Address SFPF, L.P. (Norwalk Station) Attn: Karins Hankins 1100 Town & Country Rd. Orange, CA 92668 Generator's Phone: (714) 560-4887				Generator's Site Address (if different than mailing address) SFPF Norwalk Station 15306 Norwalk Blvd. Norwalk, CA 90650													
6. Transporter 1 Company Name SELSHIRE						U.S. EPA ID Number CAR000183913													
7. Transporter 2 Company Name						U.S. EPA ID Number													
8. Designated Facility Name and Site Address DeMenne Kerdeon 2000 N. Alameda St. Compton, CA 90222 Facility's Phone: (310) 537-7100						U.S. EPA ID Number CAT080013352													
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes									
						No.	Type												
	X	1. UN1203, Gasoline Mixture, 3, PG II				010	DM	550	G	133									
		2.																	
		3.																	
	4.																		
14. Special Handling Instructions and Additional Information ERG# 128 Gasoline & Water										WEAR ALL APPROPRIATE PROTECTIVE CLOTHING		BESI:248768							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										Generator's/Offoror's Printed/Typed Name JAMES DIAZ		Signature 		Month 11		Day 10		Year 14	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.										Port of entry/exit:		Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials										Transporter 1 Printed/Typed Name STEVEN E. MINDELA		Signature 		Month 12		Day 12		Year 14	
18. Discrepancy										18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection		Manifest Reference Number:		U.S. EPA ID Number					
18b. Alternate Facility (or Generator)										Facility's Phone:		Month		Day		Year			
18c. Signature of Alternate Facility (or Generator)										Month		Day		Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										Printed/Typed Name		Signature		Month		Day		Year	