SECOND QUARTER 2013
REMEDIATION PROGRESS REPORT

DEFENSE FUEL SUPPORT POINT NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

Prepared for:

Defense Logistics Agency Energy
8725 John J. Kingman Road
Fort Belvoir, Virginia 22060-6222

August 15, 2013

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

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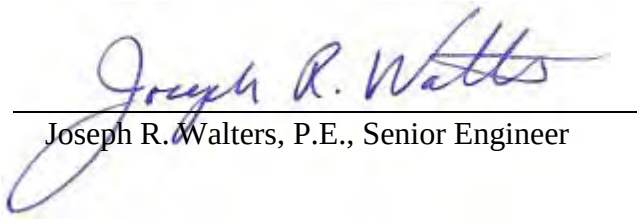
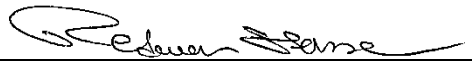


Joseph R. Walters, P.E., Senior Engineer



Redwan Hassan, P.G., Senior Project Manager

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ACRONYMS

AST	aboveground storage tank
BTEX	benzene, toluene, ethylbenzene, total xylenes
DFSP	Defense Fuel Support Point
DLA	Defense Logistics Agency
EPA	Environmental Protection Agency
GAC	granular activated carbon
GWE	groundwater extraction
JP	jet propellant
MTBE	methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
OM&M	operation, maintenance, and monitoring
PID	photoionization detector
RWQCB	Regional Water Quality Control Board
SCAQMD	South Coast Air Quality Management District
Site	DFSP Norwalk facility
TBA	Tertiary butyl alcohol
TPH	total petroleum hydrocarbons
TPHg	total petroleum hydrocarbons quantified as gasoline
TPHd	total petroleum hydrocarbons quantified as diesel
USEPA	United States Environmental Protection Agency
SVE	soil vapor extraction
VOCs	volatile organic compounds

1. INTRODUCTION

This remediation progress report was prepared by Parsons on behalf of the Defense Logistics Agency (DLA) Energy for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, in the City of Norwalk, California as shown in Figure 1. This report will summarize remediation activities performed at the site during the second quarter 2013 reporting period.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in its letter dated May 3, 2013[1]. This report describes remediation systems present at the site, and for the period of April through June 2013, this report summarizes:

- Documentation of operation, maintenance, and monitoring (OM&M) of remediation systems performed by Parsons field personnel;
- A description of remedial activities and progress achieved through OM&M activities; and
- A remediation system evaluation.

2. REMEDIATION SYSTEMS

Soil and groundwater at the areas of concern are impacted with hydrocarbons mainly consisting of jet propellant (JP)-5, diesel, benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA). MTBE and TBA are groundwater impacts that have resulted from SFPP operations and remediation of these impacts is being addressed by SFPP. Remediation systems by DLA Energy were installed to treat the hydrocarbon impacts in soil and groundwater. The purposes of these remediation systems are to reduce hydrocarbon concentrations to cleanup goals, to prevent offsite migration and contaminant mass containment, and ultimately achieve site closure within a reasonable timeframe.

The impacted DLA Energy areas consist of the north-central former tank farm, the north-eastern property boundary and offsite under Holifield Park areas, the north-west corner of the site, and the former water tank and truck fueling areas.

The remediation systems consist of soil vapor extraction (SVE), groundwater extraction (GWE), treatment of extracted soil vapors and groundwater, biosparging, free product extraction via vacuum-truck recovery, and absorbent sock installations for passive recovery of free product.

The SVE well network for hydrocarbon extraction from vadose zone subsurface impacts is installed in the following areas as illustrated on Figure 2: the central tank farm area, northwestern AST 80001 area, AST 80006 area, central AST 80008 area, AST 55004 area, north-east area, water tank area, and truck fueling area. SVE is performed using a blower to

[1] RWQCB, 2013. Letter to Mr. John R. O'Donovan, DLA Installation Support – Energy; Requirement to Submit Progress Report for the Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk, California (SCP NO. 0286A, Site ID NO. 16638). May 3.

remove soil vapors from the subsurface. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system described below. The soil vapors are then treated through four granular activated carbon (GAC) vessels where volatile organic compounds (VOCs) are absorbed onto the GAC beds and entrapped in the vessels. Operation of the SVE and treatment system is conducted in accordance with Permit to Operate No. G6961 A/N 501179 issued by the South Coast Air Quality Management District (SCAQMD).

The GWE wells for hydrocarbon extraction from dissolved-phase subsurface impacts are installed in the northwestern area, central tank farm area, and north eastern boundary area. The GWE systems consists of five vertical extraction wells of which four are 6-inch diameter wells and one is a 4-inch diameter well; and exsitu-treatment system consisting of a surge tank; pump; three bag filter vessels; two MYCELX vessels; three GAC vessels; two ion exchange vessels; discharge flow meter; and level/pump control instrumentation. Operation of the GWE and treatment system is conducted in accordance with a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CAG994004, CI No. 7585).

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located from areas throughout the tank farm area and eastern boundary area. The biosparging wells are tied into the former total fluids extraction system. Under the optimized remedial system, biosparging is currently offline.

Vacuum-truck free product recovery is conducted on an as-needed basis at wells where measurable product thickness is greater than 1 foot. Wells are gauged bimonthly and vacuum-truck recovery is conducted when necessary. Absorbent socks are installed in wells that have historically contained measureable free product and changed-out as needed.

A summary of remediation wells throughout the site is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the second quarter 2013. The remediation system layout is presented in Figure 2.

3. OPERATIONS, MAINTENCE, AND MONITORING

During this reporting period, OM&M of the remediation systems included the following tasks:

- Performed weekly maintenance and monitoring of the SVE and GWE wells, and the SVE and GWE treatment systems;
- Collected and analyzed system influent vapor and groundwater samples;
- Performed routine cleanout of the sump, tank, and associated lines as needed;
- Changed out MYCELX (MX-7) and bag filters (No. 1, 2, and 3);
- Conducted comprehensive characterization of current groundwater influent including detailed analysis of throughput capacity;
- Designed and installed second bed (15 cubic feet capacity) of arsenic ion removal resin; and
- Replaced GAC in the GWE system with acid-washed coal-based carbon (formerly GAC used was regenerated virgin coconut carbon). Selection of this alternative carbon source is

intended to marginally lower pH in the groundwater process stream increasing overall effectiveness of the arsenic ion exchange resin.

In addition, system effluent vapor and water samples were collected and analyzed for compliance with SCAQMD and NPDES permits. The effluent water sampling results will be provided under separate cover in the NPDES discharge monitoring report for the second quarter 2013 period.

During this reporting period, remediation system inspections were performed on a weekly basis. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation. Remediation system operations activities for the second quarter 2013 are summarized in Tables 2 and 3. The remediation systems operated during the second quarter 2013 with the following exceptions:

- SVE system was off May 15 through June 30 due to a break in the 8-inch diameter vacuum extraction pipeline between carbon vessels GAC-2 and GAC-3.
- The GWE system was off from the beginning of the period through April 11 due to high arsenic results reported by laboratory. The GWE system remained off for additional testing to investigate reduced efficiency of arsenic removal resin and explore system modifications to improve arsenic removal efficiency. A comprehensive characterization of current influent composition was performed. Based on results of the characterization, a detailed analysis of throughput capacity was completed and selective ion resin options were re-evaluated. Elevated interfering elements and an increase in pH in the influent were found to be responsible for the reduced efficiency of the arsenic ion exchange resin.
- The GWE system was off May 1 through June 3 due to high arsenic results reported by the laboratory. Resin efficiency has been further reduced. A second ion exchange vessel was designed and installed to enhance system performance.
- The GWE system was off June 3 to June 10 for procurement and implementation of GAC change-out.
- The GWE system was off June 18 to June 26 to assess surge tank level sensor failure and make necessary repairs.

Overall during the second quarter 2013, the SVE system operated approximately 49 percent of the time, while the GWE system operated approximately 32.5 percent of the time and taking into account the planned shutdowns, the GWE system operated 43 percent of the time during the second quarter 2013. Performance and compliance soil vapor and water samples from the SVE and GWE systems were collected during the second quarter 2013 when the systems were in operation. During the second quarter 2013, vapor samples were collected on April 22, when the SVE system was operating. Water samples were collected on April 15, 22, 29, June 11, 21, and 26, when the GWE system was operating. The vapor and water samples were delivered to Calscience Environmental Laboratories (Calscience) for analysis. Calscience is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program.

The vapor samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg) using EPA Method TO-3M; and
- VOCs using EPA Method TO-15M.

The water samples were analyzed for the following:

- TPHg and TPH quantified as diesel (TPHd) using EPA Method 8015Modified;
- VOCs using EPA Method 8260B;
- Metals (arsenic, copper, selenium, lead, and zinc) using EPA 6010B/6020;
- Oil and grease using SM5520B;
- Turbitidy using SM2130B; and
- pH using SM4500.

Analytical results for the influent vapor and water samples are summarized on Tables 4 and 5, respectively. The laboratory analytical reports are chain-of-custody documents for these samples are included in Appendix A.

Depths to product and groundwater in the GWE wells and specific monitoring wells were measured during the second quarter 2013 to the nearest 0.01 foot from the top of the well casing using an interface probe. The historical gauging results for selected wells are summarized in Table 6.

4. SUMMARY OF REMEDIATION PROGRESS

For the reporting period, the optimized remediation system consisted of SVE operating from the four horizontal wells that span through the entire former tank farm area and the six vertical wells in north-eastern area; GWE from the north-west and north-eastern areas; and vacuum-truck product recovery from GMW-62 located in Holifield Park.

The SVE system operated from four horizontal wells (HW-1, 3, 5, and 7) and six vertical wells (VEW-32 through VEW-37) from the north-east area. The SVE system operated approximately 49 percent of the time for the reporting period. The total mass of VOCs removed by SVE was approximately 3,121 pounds during the second quarter 2013 and since 1996, approximately 1.54 million pounds. The total mass removed by SVE does not include the mass removed by biodegradation.

Four wells, GW-2, GW-13, GW-15, and GW-16, were in operation during this reporting period for the GWE system. Overall, the GWE system operated approximately 32.5 percent of the time for the reporting period and taking into account the planned shutdowns, the GWE system operated approximately 43 percent of the time during the second quarter 2013. During the second quarter, 673,397 gallons of water was extracted. Since 1996, approximately 66 million gallons of groundwater have been extracted via the GWE system. Based on the TPH results for influent water samples and total groundwater extracted, the mass of TPH removed by GWE was approximately 0.0036 gallons (0.0255 pounds) during the second quarter 2013.

During the reporting period, approximately 148 gallons of free product was recovered from the site via vacuum-truck recovery and/or passive absorbent socks.

5. SYSTEM EVALUATION AND OPTIMIZATION

Remedial optimization is on-going to ensure the most efficient means and technology used for cleanup at the site. Included as part of remedial optimization, the most recent activities included the groundwater monitoring program evaluation and the proposed recommendations for revised monitoring plan.

For the SVE treatment system, during the second quarter 2013, influent vapor-phase VOC concentrations were low and reaching asymptotic levels. The operations status of the SVE wells at the end of the second quarter 2013 is also shown on Table 1. An evaluation will be conducted to determine the most beneficial operation of the system. A rebound test may be conducted to evaluate operational data and current vapor impacts to design the best scheduled operation, which may include pulsed operation (under a set schedule based on rebound test data results) or continuous operation with specific wells online. Individual wells for VOC concentration will be measured to better determine specific wells to operate and determine those wells that have reached asymptotic levels whereby SVE is no longer deemed as an effective means of remediation.

Groundwater monitoring from the first semiannual event in April resulted in an overall lower groundwater elevation and a higher number of wells with measurable free product. The overall area of impacts and plumes are similar to previous events. As indicated by the non-detected, stable, or declining dissolved groundwater analytical data from offsite wells (as illustrating in the semiannual groundwater monitoring reports) and from the previous aquifer pump testing and groundwater capture zone analysis, the current GWE systems in the northeast area and northwest corner have been successful in preventing further impacted groundwater from flowing offsite and have captured and treated a significant portion of impacted groundwater under Holifield Park and in the northwest corner. GWE in the north-west and north-east areas will continue to ensure contaminant containment onsite. In addition, vacuum-truck product recovery and absorbent sock installation will continue as needed in wells where measureable product thickness is over 1 foot.

Optimization is on-going and all total fluids and extraction wells will be assessed to determine if additional extraction wells for the GWE system should be brought online as needed to take advantage of the lower groundwater levels and increase in measureable LNAPL in wells.

6. PLANNED THIRD QUARTER 2013 ACTIVITIES

During the third quarter 2013, DLA Energy plans to continue to focus remedial efforts on the north-west, north-east, and north-central areas. The following OM&M activities are planned to be completed during the third quarter 2013:

- Repair SVE GAC vessel pipe network and connections;
- Continue weekly maintenance and monitoring of the SVE and GWE treatment systems;
- Measure individual well vapor concentrations;

- Review current LNAPL thickness and evaluate nearby total fluid and extraction wells to determine if it is beneficial for remediation to bring any wells online with the GWE system;
- Collect and analyze system influent vapor and groundwater samples; and
- Assess the SVE influent data and determine if adjustments in operation are needed or conduct a rebound test.

The SVE and GWE systems for the north-west, north-east, and north-central areas will continue to operate. Based on SVE assessment, once individual well concentrations are measured - turn off system to allow rebound or conduct rebound test, or pulsed operation. Vacuum-truck recovery and absorbent sock installation will continue. The remediation activities and progress for the third quarter 2013 will be described in the Third Quarter 2013 Remediation Progress Report to be submitted by November 15, 2013.

TABLES

TABLE 1
Remediation Well Construction and Status
Defense Fuel Support Point, Norwalk, California

Remediation Area	Well	Installation Date	Casing Elevation (ft msl)[1]	Total Depth (ft bgs)[2]	Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status at End of 2nd Quarter 2013
North-West (AST 80001)	GW-1	06/12/95	75.97	63	25 - 60	GWE	OFF
	GW-2	06/12/95	75.78	63	25 - 60	GWE	OFF
	GW-3	06/13/95	75.79	63	25 - 60	GWE	OFF
	GW-4	06/12/95	75.78	63	25 - 60	GWE	OFF
	GW-13	04/26/07	76.85	67	25 - 65	GWE	OFF
	VEW-23	8/3/2004	76.20	25	15 - 25	SVE	OFF
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 8001, AST 55004)	HW-1, HW-3, HW-5, HW-7			25	continuous	SVE	OFF
	GMW-21[3]	08/02/91	76.23	50	25 - 50	TFE/GWE	OFF
	GW-14	04/26/07	76.54	67	25 - 65	GWE	OFF
	SP-8, SP8a, SP-8b, SP-9,SP-11, SP-11a, SP-11b, SP-11c, SP-13, SP-13a, SP-13b, SP-13c, SP-13d, SP-14, SP-14a, SP-14b, SP-14c, SP-15, SP-15a, SP-16, SP-17, SP-17a, SP-18, SP-18a, SP-20, SP-20a, SP-21, SP-22,SP-23, SP-23a, SP-23b, SP-23c, SP-24, SP-24a, SP-24b, SP-24c, SP-25, SP-25a, SP-25b, SP-25c, SP-25d, SP-26, SP-26a			50	48 - 50	Biosparge	OFF
	TF-8	09/22/95	74.86	63	25 - 60	TFE, GWE	OFF
	TF-9	09/22/95	74.47	63	25 - 60	TFE, GWE	OFF
	TF-10	09/25/95	73.61	63	25 - 60	TFE, GWE	OFF
	TF-11	09/25/95	74.40	63	25 - 60	TFE, GWE	OFF
	TF-13	09/26/95	75.47	63	25 - 60	TFE, GWE	OFF
	TF-14	09/27/95	74.35	63	25 - 60	TFE, GWE	OFF
	TF-15	09/28/95	74.78	63	25 - 60	TFE, GWE	OFF
	TF-16	09/28/95	75.89	63	25 - 60	TFE, GWE	OFF
	TF-17	09/29/95	74.88	63	25 - 60	TFE, GWE	OFF
	TF-18	07/06/94	73.94	50.5	20 - 50	TFE, GWE	OFF
	TF-19	10/03/95	75.07	63	25 - 60	TFE, GWE	OFF
	TF-20	10/03/95	75.08	63	25 - 60	TFE, GWE	OFF
	TF-21	09/29/95	74.96	63	25 - 60	TFE, GWE	OFF
	TF-22	10/02/95	74.76	63	25 - 60	TFE, GWE	OFF
	TF-23	07/05/94	75.31	50.5	20 - 50	TFE, GWE	OFF
	TF-24[4]	09/26/95	76.43	63	25 - 60	TFE, GWE	OFF
	TF-25	04/04/01	74.85	47	26 - 36	TFE, GWE	OFF
	TF-26	04/03/01	75.85	47	26 - 36	TFE, GWE	OFF
	VEW-20	8/2/2004	75.95	25	15 - 25	SVE	OFF
	VEW-21	8/2/2004	75.75	25	15 - 25	SVE	OFF
	VEW-22	8/2/2004	77.09	20	10 - 20	SVE	OFF
	VEW-24	8/2/2004	76.13	25	15 - 25	SVE	OFF
	VEW-25	8/2/2004	76.14	25	15 - 25	SVE	OFF
	VEW-26	8/4/2004	77.50	25	15 - 25	SVE	OFF
	VEW-27	8/4/2004	77.07	25	15 - 25	SVE	OFF
	VEW-28	8/3/2004	75.67	25	10 - 25	SVE	OFF
	VEW-29	8/3/2004	75.25	25	10 - 25	SVE	OFF
	VEW-30	8/3/2004	75.65	25	10 - 25	SVE	OFF

TABLE 1

Remediation Well Construction and Status

Defense Fuel Support Point, Norwalk, California

Remediation Area	Well	Installation Date	Casing Elevation (ft msl)[1]	Total Depth (ft bgs)[2]	Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status at End of 2nd Quarter 2013
North-East	BSP-1	04/18/07	---	50	47 - 49	Biosparge	OFF
	BSP-2	04/18/07	---	50	48 - 50	Biosparge	OFF
	BSP-3	04/17/07	---	48	46 - 48	Biosparge	OFF
	BSP-4	04/17/07	---	49	47 - 49	Biosparge	OFF
	BSP-5	04/17/07	---	49.5	47 - 49	Biosparge	OFF
	BSP-6	04/18/07	---	49	47 - 49	Biosparge	OFF
	BSP-7	04/19/07	---	48	46 - 48	Biosparge	OFF
	BSP-8	04/19/07	---	48	46 - 48	Biosparge	OFF
	BSP-9	04/19/07	---	48	46 - 48	Biosparge	OFF
	GMW-58	08/14/98	75.48	55	20 - 55	GWE	OFF
	GW-15	04/26/07	74.94	60.5	20.5 - 60.6	GWE	OFF
	GW-16	07/07/09	76.33	63	20.5 - 60.5	GWE	OFF
	SP-21a, SP-21b, SP-48			50	48 - 50	Biosparge	OFF
	VEW-32	04/11/07	---	25	10 - 25	SVE	OFF
	VEW-33	04/11/07	---	25	10 - 25	SVE	OFF
	VEW-34	04/11/07	---	25	10 - 25	SVE	OFF
	VEW-35	04/10/07	---	25	10 - 25	SVE	OFF
	VEW-36	04/10/07	---	25	10 - 25	SVE	OFF
	VEW-37	40/10/07	---	25	10 - 25	SVE	OFF
Former Truck Fueling Area and Adjacent Water Tank Area	VEW-31	8/3/2004	75.10	15	5 - 15	SVE	OFF
	VW-07	---	75.64	---	---	SVE	OFF
	VW-09	---	75.77	---	---	SVE	OFF
	VW.-10	03/23/04	75.78	30.5	20 - 30	SVE	OFF
	VW.-11	03/23/04	75.55	25	20 - 25	SVE	OFF
	VW.-12	03/23/04	75.79	30.5	15 - 30	SVE	OFF
	VW.-13	03/23/04	75.42	29	25 - 29	SVE	OFF
	VW.-14	03/23/04	75.89	28	15 - 28	SVE	OFF
	VW.-15	04/14/04	75.45	30	20 - 30	SVE	OFF
	VW.-16	04/14/04	75.29	30	20 - 30	SVE	OFF

Notes

1. ft msl = feet above mean sea level.
2. ft bgs = feet below ground surface.
3. GMW-21 is also referred to as TF-24.
4. TF-24 is also referred to as "old TF-24" or "former TF-24". See also Note 3.

--- = information not available.

TABLE 2
Vapor Remediation System Operation Summary
Defense Fuel Support Point, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent Analytical TPH Concentration (ppmv as hexane)	Influent PID Reading (ppmv as hexane)	System Flow (cfm)	Mass Removed (pounds)
2011 Totals						**43,505**
2012 Totals						**28,354**
First Quarter 2013 Total						**3,485**
04/05/13	16,688.2	190	---	10.8	149	973
04/11/13	16,837.7	150	---	13.5	143	401
04/19/13	17,026.9	189	---	16.3	147	213
04/22/13	17,099.0	72	5.4	14.8	147	303
04/26/13	17,193.0	94	---	10.6	145	358
05/02/13	17,337.5	145	---	11.8	146	421
05/10/13	17,526.9	189	---	13.9	136	452
Second Quarter 2013 Total						**3,121**
Cumulative Mass Removed Since VES Reconstruction						**78,465**

TPH = total petroleum hydrocarbons
ppmv = parts per million by volume
cfm = cubic feet per minute
--- = not applicable or not available

TABLE 3
Groundwater Remediation System - Historical Volumetric Flow
Defense Fuel Support Point, Norwalk, California

Date	Groundwater Extracted from the North-West Area (gallons)	Groundwater Extracted from the North-East Area (gallons)	Total Groundwater Extracted from the Site (gallons)	TPH-d Removed from the Site (pounds)
2009 Totals	**2,350,770**	**2,027,277**	**4,212,900**	**---**
2010 Totals	**2,318,790**	**2,449,222**	**4,081,540**	**---**
2011 Totals	**2,595,532**	**4,174,656**	**6,401,590**	**0.0119**
2012 Totals	**3,094,814**	**3,008,511**	**5,751,810**	**0.0596**
First Quarter 2013 Totals	**437,918**	**382,028**	**748,341**	**0.0282**
4/11/2013	6,550	4113.8	10,569	0.0003
4/15/2013	51,457	43041	84,300	0.0025
4/16/2013	16,570	13474.6	27,710	0.0008
4/19/2013	39,519	30526.5	63,860	0.0019
4/22/2013	40,002	33460.2	66,124	0.0020
4/24/2013	28,552	25862.8	48,716	0.0015
4/26/2013	25,194	22144.4	44,528	0.0013
4/29/2013	39,706	34553.4	66,852	0.0020
4/30/2013	15,296	13137.3	26,855	0.0008
5/1/2013	10,431	8,625	18,247	0.0010
6/3/2013	1,870	1,847	1,348	0.0001
6/10/2013	1,038	1,021	2,885	0.0002
6/11/2013	13,560	10,792	21,745	0.0011
6/12/2013	15,050	11,410	26,726	0.0014
6/14/2013	26,276	19,708	41,222	0.0022
6/17/2013	38,316	28,679	60,417	0.0032
6/24/2013	14,553	13,043	9,358	0.0005
6/26/2013	6,000	2,547	10,922	0.0006
6/28/2013	25,256	21,782	41,013	0.0022
Second Quarter 2013 Totals	**415,194**	**339,769**	**673,397**	**0.0255**

TPH-d = total petroleum hydrocarbons quantified as diesel.

TABLE 4

Extracted Vapor Analytical Results

Defense Fuel Support Point, Norwalk, California

Date Sampled	EPA TO-3M[1]	EPA TO-15, ppb (v/v)					EPA 8260B (M), ppb (v/v)				
	VOCs	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
04/29/11	17	21	2.9	ND(5.0)	6.3	ND(2.0)	21	ND(5.0)	ND(5.0)	ND(15)	ND(10)
05/27/11	13	---	---	---	---	---	21	ND(5.0)	ND(5.0)	ND(15)	ND(10)
06/30/11	11	---	---	---	---	---	18	ND(5.0)	ND(5.0)	ND(15)	ND(10)
07/27/11	8.6	---	---	---	---	---	13	12	ND(5.0)	13	ND(10)
08/26/11	7.8	---	---	---	---	---	12	20	ND(5.0)	26.4	ND(10)
09/30/11	6.9	---	---	---	---	---	12	11	ND(5.0)	11	ND(10)
10/28/11	5.4	---	---	---	---	---	11	15	ND(5.0)	28	ND(10)
11/30/11	8.5	---	---	---	---	---	12	6.7	ND(5.0)	10	ND(10)
12/28/11	8.6	---	---	---	---	---	24	9.6	7.5	22	ND(10)
01/26/12	3.7	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
02/24/12	4.6	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
03/28/12	4.1	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
04/27/12	3.6	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
05/31/12	6.5	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
06/28/12	5.3	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
07/26/12	4.1	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
08/31/12	ND(3.0)	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
09/27/12	ND(3.0)	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
10/30/12	6.1	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
11/26/12	4.2	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
12/19/12	3.2	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
01/31/13	4.6	---	---	---	---	---	N/A	N/A	N/A	N/A	N/A
02/27/13	4.5	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
03/28/13	6.7	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)
04/22/13	5.4	---	---	---	---	---	ND(5.0)	ND(5.0)	ND(5.0)	ND(15)	ND(10)

[1] EPA-TO-3M in ppm v/v as hexane

VOCs = volatile organic compounds

MTBE = methyl tertiary butyl ether

ppm = parts per million

ND = not detected

TABLE 5

Extracted Groundwater Analytical Results

Defense Fuel Support Point, Norwalk, California

Date Sampled	TPH-fp mg/L	TPH-d mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	mp-Xylenes mg/L	o-Xylene mg/L	TBA mg/L	MTBE mg/L	DIPE mg/L	ETBE mg/L	TAME mg/L
04/22/08	580	---	---	71	25	17	42	30	14	4.6	ND(2.0)	ND(2.0)	ND(2.0)
05/01/08	700	810	---	---	---	---	---	---	---	---	---	---	---
05/16/08	780	760	---	---	---	---	---	---	---	---	---	---	---
06/12/08	150	---	---	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	25	7.7	ND(2.0)	ND(2.0)	ND(2.0)
07/19/08	---	170	ND(100)	27	0.77	7	13	7.9	ND(10)	3.9	ND(2.0)	ND(2.0)	ND(2.0)
09/03/08	---	---	---	---	---	---	---	---	ND(10)	---	---	---	---
09/08/08	---	---	---	27	0.99	8.3	13	8.2	ND(10)	3.1	ND(2.0)	ND(2.0)	ND(2.0)
09/15/08	---	---	---	36	0.81	8.5	12	6.8	ND(10)	3.8	ND(2.0)	ND(2.0)	ND(2.0)
11/13/08	---	---	---	27	ND(0.50)	2	12	5.6	ND(10)	ND(0.50)	ND(2.0)	ND(2.0)	ND(2.0)
11/26/08	---	---	---	ND(0.50)	ND(0.50)	ND(0.50)	1.3	0.61	16	5.6	ND(2.0)	ND(2.0)	ND(2.0)
12/13/08	---	---	---	ND(0.50)	ND(0.50)	0.56	1.1	0.54	19	7	ND(2.0)	ND(2.0)	ND(2.0)
01/09/09	---	---	---	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(10)	ND(0.50)	ND(2.0)	ND(2.0)	ND(2.0)
03/05/09	---	ND(100)	---	21	ND(0.50)	2.5	7.2	3.1	12	3.1	ND(2.0)	ND(2.0)	ND(2.0)
03/18/09	---	200	170	21	ND(0.50)	2.9	7	4.5	13	3.3	ND(2.0)	ND(2.0)	ND(2.0)
05/15/09	---	ND(100)	---	---	---	---	---	---	---	---	---	---	---
06/04/09	---	190	---	26	ND(0.50)	3.3	10	6.6	ND(10)	4.8	ND(2.0)	ND(2.0)	ND(2.0)
06/24/09	---	---	---	28	ND(0.50)	2.5	7.6	4.2	12	4.4	ND(2.0)	ND(2.0)	ND(2.0)
05/28/09	---	170	---	27	ND(0.50)	2.6	7.9	4.5	ND(10)	3.6	ND(2.0)	ND(2.0)	ND(2.0)
11/19/09	---	ND(100)	---	15	ND(0.50)	1.3	5.8	2.9	5.6	2.3	1.2	ND(2.0)	ND(2.0)
10/26/10	---	---	---	20	ND(0.50)	1.6	7.4	2.1	8	2.9	1.1	ND(2.0)	ND(2.0)
06/01/11	---	90	---	---	---	---	---	---	---	---	---	---	---
07/14/11	---	---	---	13	ND(0.50)	2.3	6.2	3	6.7	1.6	ND(2.0)	ND(2.0)	ND(2.0)
09/13/11	---	---	---	5	ND(0.50)	0.37	3.4	0.99	ND(10)	1.3	ND(2.0)	ND(2.0)	ND(2.0)
09/22/11	---	---	---	5.5	ND(0.50)	0.92	7.2	1.6	5.6	1.1	ND(2.0)	ND(2.0)	ND(2.0)
10/19/11	---	---	---	8.2	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)	ND(1.0)	ND(2.0)	ND(2.0)	ND(2.0)
01/20/12	---	---	---	14	ND(0.50)	2.8	7.8	1.2	16	1.3	0.42	ND(2.0)	ND(2.0)
02/03/12	---	120	340	---	---	---	---	---	---	---	---	---	---
02/17/12	---	---	---	10	ND(0.50)	1.5	7.4	1.2	15	1.2	0.39	ND(2.0)	ND(2.0)
02/24/12	---	180	---	26	ND(0.50)	1.0	7	1.2	ND(10)	1.2	0.41	ND(2.0)	ND(2.0)
03/02/12	---	---	---	23	ND(0.50)	1.4	11	2.4	8.7	1.4	0.47	ND(2.0)	ND(2.0)
03/06/12	---	---	---	28	ND(0.50)	1.0	9	1.7	13	1.1	0.37	ND(2.0)	ND(2.0)
06/15/12	---	---	---	39	13	17.0	88	26	ND(10)	1.3	0.52	ND(2.0)	ND(2.0)
08/31/12	---	820	940	---	---	---	---	---	---	---	---	---	---
09/27/12	---	5,300	3800	---	---	---	---	---	---	---	---	---	---
10/23/12	---	---	---	67	60	110.0	460	140	ND(10)	ND(0.50)	ND(2.0)	ND(2.0)	ND(2.0)
01/31/13	---	3,600	---	---	---	---	---	---	---	---	---	---	---
05/01/13	---	6,300	5500	20	4.7	8	41	14	4.8	0.56	ND(2.0)	ND(2.0)	ND(2.0)

TPH-fp = total petroleum hydrocarbons quantified as fuel products
TPH-d = total hydrocarbons quantified as diesel
TPH-g = total petroleum hydrocarbons quantified as gasoline
TBA = tert-butyl alcohol
MTBE = methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = ethyl tert-butyl ether
TAME = tert-amyl-methyl ether

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-6	03/21/07	77.31	---	28.06	---	49.25
GMW-6	04/27/07	77.31	---	28.02	---	49.29
GMW-6	08/28/07	77.31	---	28.51	---	48.80
GMW-6	11/12/07	77.31	---	28.48	---	48.83
GMW-6	02/05/08	77.31	---	29.32	---	47.99
GMW-6	04/11/08	77.31	---	28.34	---	48.97
GMW-6	07/24/08	77.31	---	28.81	---	48.50
GMW-6	10/13/08	77.31	---	29.48	---	47.83
GMW-6	02/09/09	77.31	---	29.62	---	47.69
GMW-6	04/20/09	77.31	---	29.21	---	48.10
GMW-6	07/16/09	77.31	---	29.51	---	47.80
GMW-6	10/19/09	77.31	---	29.94	---	47.37
GMW-6	04/07/10	77.31	---	29.74	---	47.57
GMW-6	04/12/10	77.31	---	29.42	---	47.89
GMW-6	01/06/11	77.31	---	30.23	---	47.08
GMW-6	02/24/11	77.31	---	29.29	---	48.02
GMW-6	04/08/11	77.31	---	28.86	---	48.45
GMW-6	07/07/11	77.31	---	29.16	---	48.15
GMW-6	10/06/11	77.31	---	29.62	---	47.69
GMW-6	04/12/12	77.31	---	30.86	---	46.45
GMW-6	04/19/12	77.31	---	30.57	---	46.74
GMW-6	01/10/13	77.31	---	31.96	---	45.35
GMW-6	04/02/13	77.31	---	31.91	---	45.40
GMW-6	04/08/13	77.31	---	31.91	---	45.40
GMW-12	04/30/07	75.21	---	25.51	---	49.70
GMW-12	11/12/07	75.21	---	25.46	---	49.75
GMW-12	04/14/08	75.21	---	25.72	---	49.49
GMW-12	07/24/08	75.21	---	26.06	---	49.15
GMW-12	10/14/08	75.21	---	26.83	---	48.38
GMW-12	02/10/09	75.21	---	26.39	---	48.82
GMW-12	04/20/09	75.21	---	26.38	---	48.83
GMW-12	10/19/09	75.21	---	27.62	---	47.59
GMW-12	04/08/10	75.21	---	27.17	---	48.04
GMW-12	04/12/10	75.21	---	26.83	---	48.38
GMW-12	01/08/11	75.21	---	28.05	---	47.16
GMW-12	04/07/11	75.21	---	26.54	---	48.67
GMW-12	07/08/11	75.21	---	26.57	---	48.64
GMW-12	10/07/11	75.21	---	27.25	---	47.96
GMW-12	04/12/12	75.21	---	28.38	---	46.83
GMW-12	04/16/12	75.21	---	28.25	---	46.96
GMW-12	01/10/13	75.21	---	29.97	---	45.24
GMW-12	04/03/13	75.21	---	29.88	---	45.33
GMW-12	04/08/13	75.21	---	29.94	---	45.27
GMW-15	03/21/07	76.21	---	26.38	---	49.83
GMW-15	04/27/07	76.21	---	26.90	---	49.31
GMW-15	08/28/07	76.21	---	26.70	---	49.51
GMW-15	11/12/07	76.21	---	27.38	---	48.83
GMW-15	02/05/08	76.21	---	27.78	---	48.43
GMW-15	04/11/08	76.21	---	27.29	---	48.92
GMW-15	07/24/08	76.21	---	27.52	---	48.69
GMW-15	10/13/08	76.21	---	28.36	---	47.85
GMW-15	02/09/09	76.21	---	28.51	---	47.70
GMW-15	04/20/09	76.21	---	28.31	---	47.90
GMW-15	07/16/09	76.21	---	28.32	---	47.89
GMW-15	10/19/09	76.21	---	28.90	---	47.31
GMW-15	04/08/10	76.21	---	28.51	---	47.70

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-15	04/12/10	76.21	---	28.24	---	47.97
GMW-15	01/06/11	76.21	---	29.10	---	47.11
GMW-15	04/08/11	76.21	---	27.81	---	48.40
GMW-15	07/07/11	76.21	---	28.05	---	48.16
GMW-15	10/06/11	76.21	---	28.53	---	47.68
GMW-15	04/12/12	76.21	---	29.75	---	46.46
GMW-15	04/19/12	76.21	---	29.45	---	46.76
GMW-15	01/10/13	76.21	---	30.88	---	45.33
GMW-15	04/02/13	76.21	---	30.82	---	45.39
GMW-15	04/08/13	76.21	---	30.78	---	45.43
GMW-16	03/21/07	77.00	---	27.51	---	49.49
GMW-16	04/27/07	77.00	---	27.72	---	49.28
GMW-16	08/28/07	77.00	---	27.99	---	49.01
GMW-16	11/12/07	77.00	---	28.33	---	48.67
GMW-16	02/05/08	77.00	---	28.68	---	48.32
GMW-16	04/11/08	77.00	---	28.13	---	48.87
GMW-16	07/24/08	77.00	---	28.56	---	48.44
GMW-16	10/13/08	77.00	---	29.21	---	47.79
GMW-16	02/09/09	77.00	---	29.18	---	47.82
GMW-16	04/20/09	77.00	---	30.50	---	46.50
GMW-16	07/16/09	77.00	---	29.52	---	47.48
GMW-16	10/19/09	77.00	---	30.24	---	46.76
GMW-16	04/07/10	77.00	---	29.68	---	47.32
GMW-16	04/12/10	77.00	---	29.38	---	47.62
GMW-16	01/08/11	77.00	---	26.47	---	50.53
GMW-16	07/07/11	77.00	---	29.04	---	47.96
GMW-16	10/06/11	77.00	---	29.48	---	47.52
GMW-16	04/12/12	77.00	---	30.53	---	46.47
GMW-16	04/18/12	77.00	---	30.29	---	46.71
GMW-16	01/11/13	77.00	---	31.68	---	45.32
GMW-16	04/02/13	77.00	---	31.66	---	45.34
GMW-16	04/08/13	77.00	---	31.65	---	45.35
GMW-18	03/21/07	75.36	---	25.18	---	50.18
GMW-18	04/30/07	75.36	---	25.72	---	49.64
GMW-18	08/28/07	75.36	---	25.62	---	49.74
GMW-18	11/12/07	75.36	---	26.29	---	49.07
GMW-18	02/05/08	75.36	---	26.73	---	48.63
GMW-18	04/14/08	75.36	---	25.91	---	49.45
GMW-18	10/14/08	75.36	---	27.00	---	48.36
GMW-18	02/10/09	75.36	---	26.50	---	48.86
GMW-18	04/20/09	75.36	---	26.80	---	48.56
GMW-18	07/17/09	75.36	---	27.41	---	47.95
GMW-18	10/19/09	75.36	---	27.91	---	47.45
GMW-18	04/08/10	75.36	---	27.30	---	48.06
GMW-18	04/12/10	75.36	---	27.44	---	47.92
GMW-18	10/01/10	75.36	---	27.80	---	47.56
GMW-18	01/08/11	75.36	---	27.86	---	47.50
GMW-18	04/12/12	75.36	---	28.54	---	46.82
GMW-18	04/20/12	75.36	---	28.45	---	46.91
GMW-18	04/05/13	75.36	29.66	30.33	0.67	NC
GMW-18	04/08/13	75.36	29.64	30.21	0.57	NC
GMW-19	03/21/07	76.83	---	27.41	---	49.42
GMW-19	04/30/07	76.83	---	27.48	---	49.35
GMW-19	08/28/07	76.83	---	28.00	---	48.83
GMW-19	11/12/07	76.83	---	28.04	---	48.79
GMW-19	02/05/08	76.83	---	28.67	---	48.16

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-19	04/14/08	76.83	---	27.64	---	49.19
GMW-19	07/24/08	76.83	---	27.97	---	48.86
GMW-19	10/14/08	76.83	---	28.76	---	48.07
GMW-19	02/10/09	76.83	---	27.35	---	49.48
GMW-19	04/20/09	76.83	---	28.71	---	48.12
GMW-19	07/17/09	76.83	---	28.79	---	48.04
GMW-19	10/19/09	76.83	---	29.54	---	47.29
GMW-19	04/08/10	76.83	---	29.05	---	47.78
GMW-19	04/12/10	76.83	---	29.16	---	47.67
GMW-19	01/08/11	76.83	---	NM	---	NC
GMW-19	07/08/11	76.83	---	NM	---	NC
GMW-19	10/06/11	76.83	---	29.06	---	47.77
GMW-19	04/12/12	76.83	---	30.26	---	46.57
GMW-19	04/18/12	76.83	---	30.09	---	46.74
GMW-19	01/10/13	76.83	---	31.56	---	45.27
GMW-19	04/03/13	76.83	---	31.49	---	45.34
GMW-19	04/08/13	76.83	---	31.60	---	45.23
GMW-21	04/27/07	76.23	---	26.41	---	49.82
GMW-21	11/09/07	76.23	27.34	27.37	0.03	NC
GMW-21	02/05/08	76.23	---	27.79	---	48.44
GMW-21	10/13/08	76.23	---	28.18	---	48.05
GMW-21	02/09/09	76.23	---	27.48	---	48.75
GMW-21	07/17/09	76.23	---	28.40	---	47.83
GMW-21	04/07/10	76.23	---	28.81	---	47.42
GMW-21	10/01/10	76.23	---	NM	---	NC
GMW-21	01/06/11	76.23	---	26.85	---	49.38
GMW-21	04/06/11	76.23	---	27.78	---	48.45
GMW-21	07/07/11	76.23	---	27.95	---	48.28
GMW-21	10/06/11	76.23	---	28.41	---	47.82
GMW-21	04/12/12	76.23	---	29.48	---	46.75
GMW-21	01/10/13	76.23	30.43	31.90	1.47	NC
GMW-21	04/02/13	76.23	30.66	30.73	0.07	NC
GMW-21	04/08/13	76.23	30.56	31.05	0.49	NC
GMW-32	03/21/07	74.62	---	24.51	---	50.11
GMW-32	04/30/07	74.62	---	25.03	---	49.59
GMW-32	08/28/07	74.62	---	24.78	---	49.84
GMW-32	11/12/07	74.62	---	25.62	---	49.00
GMW-32	02/05/08	74.62	---	25.93	---	48.69
GMW-32	04/14/08	74.62	---	25.11	---	49.51
GMW-32	07/24/08	74.62	---	25.52	---	49.10
GMW-32	10/14/08	74.62	---	26.35	---	48.27
GMW-32	02/10/09	74.62	---	26.15	---	48.47
GMW-32	04/20/09	74.62	---	27.28	---	47.34
GMW-32	07/16/09	74.62	---	26.71	---	47.91
GMW-32	10/19/09	74.62	---	27.24	---	47.38
GMW-32	04/08/10	74.62	---	26.61	---	48.01
GMW-32	04/12/10	74.62	---	26.82	---	47.80
GMW-32	04/07/11	74.62	---	25.72	---	48.90
GMW-32	10/06/11	74.62	---	26.71	---	47.91
GMW-32	04/12/12	74.62	---	27.94	---	46.68
GMW-32	04/19/12	74.62	---	27.83	---	46.79
GMW-32	01/10/13	74.62	---	29.31	---	45.31
GMW-32	04/03/13	74.62	---	29.34	---	45.28
GMW-32	04/08/13	74.62	---	29.32	---	45.30
GMW-33	03/21/07	74.88	---	25.61	---	49.27
GMW-33	04/30/07	74.88	---	25.44	---	49.44

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-33	08/28/07	74.88	---	25.94	---	48.94
GMW-33	11/12/07	74.88	---	25.97	---	48.91
GMW-33	02/05/08	74.88	---	26.87	---	48.01
GMW-33	04/11/08	74.88	---	25.58	---	49.30
GMW-33	07/24/08	74.88	---	26.11	---	48.77
GMW-33	10/13/08	74.88	---	26.93	---	47.95
GMW-33	02/10/09	74.88	---	27.05	---	47.83
GMW-33	07/16/09	74.88	---	27.41	---	47.47
GMW-33	04/07/10	74.88	---	26.82	---	48.06
GMW-33	10/01/10	74.88	---	27.43	---	47.45
GMW-33	04/07/11	74.88	---	NM	---	NC
GMW-33	10/06/11	74.88	---	NM	---	NC
GMW-33	04/12/12	74.88	---	NM	---	NC
GMW-33	01/10/13	74.88	---	NM	---	NC
GMW-33	04/03/13	74.88	---	NM	---	NC
GMW-40	04/30/07	73.13	---	23.74	---	49.39
GMW-40	11/12/07	73.13	---	24.60	---	48.53
GMW-40	04/11/08	73.13	---	24.09	---	49.04
GMW-40	10/14/08	73.13	---	25.01	---	48.12
GMW-40	02/10/09	73.13	---	25.05	---	48.08
GMW-40	04/20/09	73.13	---	27.40	---	45.73
GMW-40	10/19/09	73.13	---	26.00	---	47.13
GMW-40	04/08/10	73.13	---	25.31	---	47.82
GMW-40	04/12/10	73.13	---	25.20	---	47.93
GMW-40	10/01/10	73.13	---	25.83	---	47.30
GMW-40	10/04/10	73.13	---	25.70	---	47.43
GMW-40	01/07/11	73.13	---	NM	---	NC
GMW-40	04/11/11	73.13	---	NM	---	NC
GMW-40	10/10/11	73.13	---	25.13	---	48.00
GMW-40	04/12/12	73.13	---	26.48	---	46.65
GMW-41	04/30/07	74.46	---	25.06	---	49.40
GMW-41	11/12/07	74.46	---	25.87	---	48.59
GMW-41	04/11/08	74.46	---	25.44	---	49.02
GMW-41	07/24/08	74.46	---	25.80	---	48.66
GMW-41	10/14/08	74.46	---	26.35	---	48.11
GMW-41	02/10/09	74.46	---	26.58	---	47.88
GMW-41	04/20/09	74.46	---	26.61	---	47.85
GMW-41	10/19/09	74.46	---	27.34	---	47.12
GMW-41	04/08/10	74.46	---	26.64	---	47.82
GMW-41	04/12/10	74.46	---	26.44	---	48.02
GMW-41	10/04/10	74.46	---	26.91	---	47.55
GMW-41	01/07/11	74.46	---	27.58	---	46.88
GMW-41	04/08/11	74.46	---	26.01	---	48.45
GMW-41	04/11/11	74.46	---	NM	---	NC
GMW-41	07/08/11	74.46	---	26.01	---	48.45
GMW-41	10/06/11	74.46	---	26.61	---	47.85
GMW-41	10/10/11	74.46	---	26.53	---	47.93
GMW-41	04/12/12	74.46	---	27.77	---	46.69
GMW-41	04/16/12	74.46	---	27.54	---	46.92
GMW-41	01/11/13	74.46	---	29.47	---	44.99
GMW-41	04/03/13	74.46	---	29.29	---	45.17
GMW-41	04/08/13	74.46	---	29.16	---	45.30
GMW-42	04/30/07	75.50	---	26.07	---	49.43
GMW-42	11/12/07	75.50	---	26.38	---	49.12
GMW-42	04/11/08	75.50	---	25.95	---	49.55
GMW-42	10/16/08	75.50	---	26.92	---	48.58

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-42	04/07/10	75.50	---	27.60	---	47.90
GMW-42	10/01/10	75.50	---	28.13	---	47.37
GMW-42	01/08/11	75.50	---	28.03	---	47.47
GMW-42	04/12/12	75.50	---	28.88	---	46.62
GMW-44	04/30/07	74.45	---	25.32	---	49.13
GMW-44	11/12/07	74.45	---	25.82	---	48.63
GMW-44	04/14/08	74.45	---	25.45	---	49.00
GMW-44	07/24/08	74.45	---	25.95	---	48.50
GMW-44	10/14/08	74.45	---	26.60	---	47.85
GMW-44	02/10/09	74.45	---	26.87	---	47.58
GMW-44	04/20/09	74.45	---	26.51	---	47.94
GMW-44	10/19/09	74.45	---	27.43	---	47.02
GMW-44	04/08/10	74.45	---	26.77	---	47.68
GMW-44	04/12/10	74.45	---	26.51	---	47.94
GMW-44	01/07/11	74.45	---	27.47	---	46.98
GMW-44	04/08/11	74.45	---	26.05	---	48.40
GMW-44	07/08/11	74.45	---	NM	---	NC
GMW-44	10/06/11	74.45	---	26.91	---	47.54
GMW-44	04/12/12	74.45	---	28.13	---	46.32
GMW-44	04/16/12	74.45	---	27.92	---	46.53
GMW-44	01/10/13	74.45	---	29.54	---	44.91
GMW-44	04/03/13	74.45	---	29.51	---	44.94
GMW-44	04/08/13	74.45	---	29.42	---	45.03
GMW-45	03/21/07	75.67	---	26.09	---	49.58
GMW-45	04/27/07	75.67	---	26.48	---	49.19
GMW-45	08/28/07	75.67	---	26.42	---	49.25
GMW-45	11/12/07	75.67	---	26.94	---	48.73
GMW-45	02/05/08	74.45	---	27.52	---	46.93
GMW-45	04/11/08	75.67	---	26.76	---	48.91
GMW-45	07/24/08	75.67	---	27.27	---	48.40
GMW-45	10/13/08	75.67	---	27.95	---	47.72
GMW-45	02/09/09	74.45	---	27.68	---	46.77
GMW-45	04/20/09	75.67	---	27.58	---	48.09
GMW-45	07/16/09	75.67	---	27.91	---	47.76
GMW-45	10/19/09	75.67	---	28.54	---	47.13
GMW-45	04/07/10	75.67	---	28.22	---	47.45
GMW-45	04/12/10	75.67	---	27.85	---	47.82
GMW-45	01/06/11	75.67	---	28.75	---	46.92
GMW-45	04/07/11	75.67	---	27.38	---	48.29
GMW-45	07/07/11	75.67	---	27.63	---	48.04
GMW-45	10/07/11	75.67	---	28.22	---	47.45
GMW-45	04/12/12	75.67	---	29.30	---	46.37
GMW-45	04/19/12	75.67	---	29.02	---	46.65
GMW-45	01/10/13	75.67	---	30.35	---	45.32
GMW-45	04/02/13	75.67	---	30.34	---	45.33
GMW-45	04/08/13	75.67	---	30.29	---	45.38
GMW-47	03/21/07	75.98	---	26.30	---	49.68
GMW-47	04/27/07	75.98	---	26.71	---	49.27
GMW-47	08/28/07	75.98	---	26.74	---	49.24
GMW-47	11/12/07	75.98	---	27.12	---	48.86
GMW-47	02/05/08	75.98	---	27.75	---	48.23
GMW-47	04/11/08	75.98	---	26.93	---	49.05
GMW-47	07/24/08	75.98	---	27.49	---	48.49
GMW-47	10/13/08	75.98	---	28.19	---	47.79
GMW-47	02/09/09	75.98	---	28.07	---	47.91
GMW-47	04/20/09	75.98	---	27.66	---	48.32

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-47	07/16/09	75.98	---	28.22	---	47.76
GMW-47	07/20/09	75.98	---	28.10	---	47.88
GMW-47	10/19/09	75.98	---	28.48	---	47.50
GMW-47	01/11/10	75.98	---	29.10	---	46.88
GMW-47	04/07/10	75.98	---	NM	---	NC
GMW-47	04/12/10	75.98	---	28.52	---	47.46
GMW-47	01/06/11	75.98	---	29.05	---	46.93
GMW-47	04/07/11	75.98	---	27.50	---	48.48
GMW-47	07/07/11	75.98	---	27.83	---	48.15
GMW-47	10/06/11	75.98	---	28.41	---	47.57
GMW-47	01/10/12	75.98	---	28.71	---	47.27
GMW-47	04/12/12	75.98	---	29.55	---	46.43
GMW-47	04/20/12	75.98	---	29.26	---	46.72
GMW-47	01/10/13	75.98	---	30.57	---	45.41
GMW-47	04/02/13	75.98	---	30.55	---	45.43
GMW-47	04/08/13	75.98	---	30.55	---	45.43
GMW-57	07/07/11	76.66	---	28.53	---	48.13
GMW-57	10/06/11	76.66	---	29.12	---	47.54
GMW-57	01/09/12	76.66	---	29.48	---	47.18
GMW-57	04/12/12	76.66	---	30.15	---	46.51
GMW-57	04/17/12	76.66	---	29.85	---	46.81
GMW-57	01/10/13	76.66	---	31.18	---	45.48
GMW-57	04/02/13	76.66	---	31.18	---	45.48
GMW-57	04/08/13	76.66	---	31.04	---	45.62
GMW-58	07/08/11	75.48	---	26.46	---	49.02
GMW-58	10/06/11	75.48	---	27.11	---	48.37
GMW-58	01/10/12	75.48	---	27.42	---	48.06
GMW-58	04/12/12	75.48	---	28.20	---	47.28
GMW-58	04/18/12	75.48	---	27.86	---	47.62
GMW-58	01/11/13	75.48	---	29.26	---	46.22
GMW-58	04/03/13	75.48	---	29.23	---	46.25
GMW-58	04/08/13	75.48	---	29.17	---	46.31
GMW-59	07/07/11	75.28	---	25.69	---	49.59
GMW-59	10/06/11	75.28	---	26.35	---	48.93
GMW-59	01/10/12	75.28	---	26.80	---	48.48
GMW-59	04/12/12	75.28	27.55	27.56	0.01	NC
GMW-59	04/20/12	75.28	---	27.28	---	48.00
GMW-59	01/10/13	75.28	---	28.60	---	46.68
GMW-59	04/03/13	75.28	---	28.62	---	46.66
GMW-59	04/08/13	75.28	---	29.02	---	46.26
GMW-61	11/01/04	75.60	---	28.02	---	47.58
GMW-61	02/28/05	75.60	---	23.81	---	51.79
GMW-61	05/02/05	75.60	---	22.18	---	53.42
GMW-61	03/06/06	75.60	---	24.53	---	51.07
GMW-61	05/01/06	75.60	---	24.64	---	50.96
GMW-61	08/26/06	75.60	---	25.13	---	50.47
GMW-61	12/01/06	75.60	---	25.60	---	50.00
GMW-61	03/21/07	75.60	---	26.01	---	49.59
GMW-61	04/27/07	75.60	---	26.25	---	49.35
GMW-61	08/28/07	75.60	---	26.21	---	49.39
GMW-61	11/12/07	75.60	---	26.67	---	48.93
GMW-61	02/05/08	75.60	---	27.17	---	48.43
GMW-61	04/11/08	75.60	---	26.29	---	49.31
GMW-61	07/24/08	75.60	---	27.01	---	48.59
GMW-61	10/13/08	75.60	---	27.73	---	47.87
GMW-61	02/09/09	75.60	---	27.56	---	48.04

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-61	04/20/09	75.60	---	27.14	---	48.46
GMW-61	07/16/09	75.60	---	27.69	---	47.91
GMW-61	07/20/09	75.60	---	27.84	---	47.76
GMW-61	10/19/09	75.60	---	28.22	---	47.38
GMW-61	01/11/10	75.60	---	28.81	---	46.79
GMW-61	04/07/10	75.60	---	27.67	---	47.93
GMW-61	04/12/10	75.60	---	27.22	---	48.38
GMW-61	01/08/11	75.60	---	28.37	---	47.23
GMW-61	04/08/11	75.60	---	26.68	---	48.92
GMW-61	07/07/11	75.60	---	27.23	---	48.37
GMW-61	10/06/11	75.60	---	27.92	---	47.68
GMW-61	01/10/12	75.60	---	28.41	---	47.19
GMW-61	04/12/12	75.60	---	29.06	---	46.54
GMW-61	04/19/12	75.60	---	28.71	---	46.89
GMW-61	01/11/13	75.60	---	30.05	---	45.55
GMW-61	04/03/13	75.60	---	30.11	---	45.49
GMW-61	04/08/13	75.60	---	30.01	---	45.59
GMW-62	07/02/07	76.34	---	27.03	---	49.31
GMW-62	02/05/08	76.34	---	27.79	---	48.55
GMW-62	04/14/08	76.34	---	26.87	---	49.47
GMW-62	07/24/08	76.34	---	27.98	---	48.36
GMW-62	10/14/08	76.34	---	28.24	---	48.10
GMW-62	02/10/09	76.34	---	28.31	---	48.03
GMW-62	04/20/09	76.34	---	27.94	---	48.40
GMW-62	07/17/09	76.34	---	28.15	---	48.19
GMW-62	07/21/09	76.34	---	28.30	---	48.04
GMW-62	10/19/09	76.34	---	29.00	---	47.34
GMW-62	01/11/10	76.34	---	29.51	---	46.83
GMW-62	04/12/10	76.34	---	28.24	---	48.10
GMW-62	01/10/11	76.34	28.78	29.08	0.30	NC
GMW-62	04/07/11	76.34	26.89	28.57	1.68	NC
GMW-62	07/07/11	76.34	28.03	28.14	0.11	NC
GMW-62	10/06/11	76.34	28.45	29.39	0.94	NC
GMW-62	01/09/12	76.34	28.97	29.02	0.05	NC
GMW-62	04/12/12	76.34	29.58	29.68	0.10	NC
GMW-62	04/18/12	76.34	29.40	29.46	0.06	NC
GMW-62	01/11/13	76.34	---	30.62	---	45.72
GMW-62	04/03/13	76.34	30.42	31.36	0.94	NC
GMW-62	04/08/13	76.34	30.35	32.13	1.78	NC
GMW-65	07/17/09	76.78	---	28.65	---	48.13
GMW-65	07/21/09	76.78	---	28.83	---	47.95
GMW-65	10/19/09	76.78	---	29.60	---	47.18
GMW-65	01/11/10	76.78	---	29.80	---	46.98
GMW-65	04/12/10	76.78	---	28.68	---	48.10
GMW-65	01/08/11	76.78	---	29.39	---	47.39
GMW-65	04/07/11	76.78	---	27.98	---	48.80
GMW-65	07/07/11	76.78	---	28.63	---	48.15
GMW-65	10/06/11	76.78	---	29.18	---	47.60
GMW-65	01/09/12	76.78	---	29.43	---	47.35
GMW-65	04/12/12	76.78	---	30.15	---	46.63
GMW-65	04/18/12	76.78	---	29.85	---	46.93
GMW-65	01/11/13	76.78	---	31.08	---	45.70
GMW-65	04/03/13	76.78	---	31.07	---	45.71
GMW-65	04/08/13	76.78	---	30.92	---	45.86
GMW-66	10/19/09	77.00	---	29.73	---	47.27
GMW-66	04/12/10	77.00	---	29.64	---	47.36

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-66	04/07/11	77.00	---	28.63	---	48.37
GMW-66	07/07/11	77.00	---	28.96	---	48.04
GMW-66	10/06/11	77.00	---	29.48	---	47.52
GMW-66	04/12/12	77.00	---	30.46	---	46.54
GMW-66	04/17/12	77.00	---	30.11	---	46.89
GMW-66	01/10/13	77.00	---	31.36	---	45.64
GMW-66	04/02/13	77.00	---	31.34	---	45.66
GMW-66	04/08/13	77.00	---	31.25	---	45.75
GW-2	04/30/07	75.78	---	26.52	---	49.26
GW-2	11/12/07	75.78	---	NM	---	NC
GW-2	04/11/08	76.39	---	27.39	---	49.00
GW-2	07/24/08	76.39	---	27.88	---	48.51
GW-2	10/13/08	76.39	---	28.31	---	48.08
GW-2	02/09/09	76.39	---	27.61	---	48.78
GW-2	01/11/10	76.39	---	29.26	---	47.13
GW-2	04/07/10	76.39	---	29.45	---	46.94
GW-2	01/06/11	75.78	---	32.45	---	43.33
GW-2	04/06/11	75.78	---	28.31	---	47.47
GW-2	07/07/11	75.78	---	28.25	---	47.53
GW-2	10/06/11	75.78	---	28.47	---	47.31
GW-2	04/12/12	75.78	---	29.34	---	46.44
GW-2	04/19/12	75.78	---	28.99	---	46.79
GW-2	01/10/13	75.78	---	30.42	---	45.36
GW-2	04/02/13	75.78	---	30.25	---	45.53
GW-2	04/08/13	75.78	---	30.11	---	45.67
GW-3	04/30/07	73.86	---	26.65	---	47.21
GW-3	11/12/07	75.79	---	27.11	---	48.68
GW-3	04/11/08	76.56	---	27.92	---	48.64
GW-3	07/24/08	75.79	---	27.79	---	48.00
GW-3	10/13/08	75.79	---	28.39	---	47.40
GW-3	02/09/09	75.79	---	27.12	---	48.67
GW-3	04/20/09	75.79	---	26.30	---	49.49
GW-3	10/19/09	75.79	---	29.24	---	46.55
GW-3	04/07/10	76.56	---	55.57	---	20.99
GW-3	04/12/10	75.79	---	28.84	---	46.95
GW-3	10/01/10	75.79	---	29.10	---	46.69
GW-3	04/06/11	75.79	---	28.50	---	47.29
GW-3	07/08/11	75.79	---	28.36	---	47.43
GW-3	10/06/11	75.79	---	28.65	---	47.14
GW-3	04/12/12	75.79	---	29.35	---	46.44
GW-3	01/10/13	75.79	---	30.49	---	45.30
GW-3	04/02/13	75.79	---	30.38	---	45.41
GW-3	04/08/13	75.79	---	30.26	---	45.53
GW-6	04/27/07	76.38	---	27.14	---	49.24
GW-6	11/12/07	77.41	---	27.75	---	49.66
GW-6	04/11/08	76.38	---	27.52	---	48.86
GW-6	07/24/08	76.38	---	27.75	---	48.63
GW-6	10/13/08	76.38	---	28.54	---	47.84
GW-6	02/09/09	76.38	---	27.38	---	49.00
GW-6	04/20/09	76.38	---	28.41	---	47.97
GW-6	10/19/09	76.38	---	29.32	---	47.06
GW-6	04/07/10	76.38	---	30.21	---	46.17
GW-6	04/12/10	76.38	---	29.61	---	46.77
GW-6	01/06/11	76.38	---	29.45	---	46.93
GW-6	04/06/11	76.38	---	28.35	---	48.03
GW-6	07/07/11	76.38	28.51	28.52	0.01	NC

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GW-6	10/06/11	76.38	---	28.88	---	47.50
GW-6	04/12/12	76.38	---	29.88	---	46.50
GW-6	04/18/12	76.38	---	29.65	---	46.73
GW-6	01/10/13	76.38	---	31.13	---	45.25
GW-6	04/02/13	76.38	---	31.03	---	45.35
GW-6	04/08/13	76.38	---	31.00	---	45.38
GW-13(6")	11/12/07	76.85	---	28.31	---	48.54
GW-13(6")	07/24/08	77.45	---	28.91	---	48.54
GW-13(6")	10/13/08	77.45	---	29.29	---	48.16
GW-13(6")	02/09/09	76.85	---	28.88	---	47.97
GW-13(6")	04/20/09	76.85	---	29.48	---	47.37
GW-13(6")	10/19/09	76.85	---	29.92	---	46.93
GW-13(6")	04/12/10	76.85	---	29.91	---	46.94
GW-13(6")	01/06/11	76.85	---	33.10	---	43.75
GW-13(6")	04/08/11	76.85	---	29.49	---	47.36
GW-13(6")	07/07/11	76.85	---	29.45	---	47.40
GW-13(6")	10/06/11	76.85	---	29.64	---	47.21
GW-13(6")	04/12/12	76.85	---	30.52	---	46.33
GW-13(6")	04/18/12	76.85	---	30.27	---	46.58
GW-13(6")	01/10/13	76.85	---	31.63	---	45.22
GW-13(6")	04/02/13	76.85	---	31.51	---	45.34
GW-13(6")	04/08/13	76.85	---	31.41	---	45.44
GW-14(1")	01/12/10	76.55	---	29.84	---	46.71
GW-14(6")	11/09/07	76.54	---	27.85	---	48.69
GW-14(6")	04/14/08	76.54	---	27.36	---	49.18
GW-14(6")	07/24/08	76.54	---	26.02	---	50.52
GW-14(6")	10/13/08	76.54	---	28.79	---	47.75
GW-14(6")	02/10/09	76.54	---	26.62	---	49.92
GW-14(6")	04/20/09	76.54	---	28.27	---	48.27
GW-14(6")	10/19/09	76.54	---	27.46	---	49.08
GW-14(6")	04/08/10	76.54	---	28.70	---	47.84
GW-14(6")	04/12/10	76.54	---	28.40	---	48.14
GW-14(6")	01/08/11	76.54	---	29.45	---	47.09
GW-14(6")	04/08/11	76.54	---	27.98	---	48.56
GW-14(6")	07/08/11	76.54	---	28.31	---	48.23
GW-14(6")	10/06/11	76.54	---	28.93	---	47.61
GW-14(6")	04/12/12	76.54	---	29.95	---	46.59
GW-14(6")	04/20/12	76.54	---	29.90	---	46.64
GW-14(6")	01/10/13	76.54	---	33.29	---	43.25
GW-14(6")	04/03/13	76.54	---	31.29	---	45.25
GW-14(6")	04/08/13	76.54	---	31.17	---	45.37
GW-15(1")	07/24/08	75.36	27.50	27.55	0.05	NC
GW-15(1")	10/16/08	75.36	28.15	28.16	0.01	NC
GW-15(1")	02/09/09	75.36	27.98	28.02	0.04	NC
GW-15(1")	07/17/09	75.36	28.51	28.59	0.08	NC
GW-15(1")	04/08/10	75.36	27.74	29.43	1.69	NC
GW-15(6")	04/11/08	74.94	---	26.19	---	48.75
GW-15(6")	10/19/09	74.94	---	NM	---	NC
GW-15(6")	04/12/10	74.94	27.58	29.63	2.05	NC
GW-15(6")	04/08/11	74.94	26.75	26.76	0.01	NC
GW-15(6")	07/07/11	74.94	27.57	27.61	0.04	NC
GW-15(6")	10/06/11	74.94	28.38	28.40	0.02	NC
GW-15(6")	04/12/12	74.94	29.54	29.55	0.01	NC
GW-15(6")	01/11/13	74.94	---	30.39	---	44.55
GW-15(6")	04/03/13	74.94	29.13	35.20	6.07	NC
GW-16(1")	07/17/09	76.55	---	28.87	---	47.68

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GW-16(1")	01/12/10	76.55	---	29.94	---	46.61
GW-16(1")	04/07/11	76.33	---	28.55	---	47.78
GW-16(6")	10/19/09	76.33	---	29.94	---	46.39
GW-16(6")	04/12/10	76.33	---	28.71	---	47.62
GW-16(6")	07/07/11	76.33	---	28.96	---	47.37
GW-16(6")	10/06/11	76.33	---	29.34	---	46.99
GW-16(6")	04/12/12	76.33	---	30.12	---	46.21
GW-16(6")	01/11/13	76.33	---	31.30	---	45.03
GW-16(6")	04/03/13	76.33	---	31.10	---	45.23
MW-22 (MID)	03/21/07	79.57	---	31.49	---	48.08
MW-22 (MID)	04/30/07	79.57	---	31.33	---	48.24
MW-22 (MID)	08/28/07	79.57	---	31.96	---	47.61
MW-22 (MID)	11/12/07	79.57	---	32.19	---	47.38
MW-22 (MID)	02/05/08	79.57	---	32.51	---	47.06
MW-22 (MID)	04/11/08	79.57	---	31.83	---	47.74
MW-22 (MID)	10/13/08	79.57	---	33.01	---	46.56
MW-22 (MID)	02/09/09	79.57	---	32.96	---	46.61
MW-22 (MID)	04/20/09	79.57	---	32.65	---	46.92
MW-22 (MID)	07/16/09	79.57	---	33.51	---	46.06
MW-22 (MID)	07/20/09	79.57	---	33.96	---	45.61
MW-22 (MID)	10/19/09	79.57	---	33.87	---	45.70
MW-22 (MID)	01/11/10	79.57	---	34.14	---	45.43
MW-22 (MID)	04/07/10	79.57	---	34.02	---	45.55
MW-22 (MID)	04/12/10	79.57	---	33.62	---	45.95
MW-22 (MID)	01/07/11	79.57	---	34.50	---	45.07
MW-22 (MID)	04/06/11	79.57	---	33.39	---	46.18
MW-22 (MID)	07/08/11	79.57	---	33.34	---	46.23
MW-22 (MID)	10/06/11	79.57	---	33.57	---	46.00
MW-22 (MID)	01/09/12	79.57	---	33.72	---	45.85
MW-22 (MID)	04/12/12	79.57	---	34.22	---	45.35
MW-22 (MID)	04/18/12	79.57	---	33.98	---	45.59
MW-22 (MID)	01/11/13	79.57	---	35.48	---	44.09
MW-22 (MID)	04/03/13	79.57	---	35.32	---	44.25
MW-22 (MID)	04/08/13	79.57	---	35.30	---	44.27
MW-26	04/30/07	77.40	---	28.18	---	49.22
MW-26	11/12/07	77.40	---	28.75	---	48.65
MW-26	04/11/08	77.40	---	28.46	---	48.94
MW-26	07/24/08	77.40	---	29.00	---	48.40
MW-26	10/13/08	77.40	---	29.42	---	47.98
MW-26	02/09/09	77.40	---	29.11	---	48.29
MW-26	04/20/09	77.40	---	29.42	---	47.98
MW-26	10/19/09	77.40	---	30.00	---	47.40
MW-26	04/07/10	77.40	---	30.24	---	47.16
MW-26	04/12/10	77.40	---	29.82	---	47.58
MW-26	01/07/11	77.40	---	30.77	---	46.63
MW-26	04/06/11	77.40	---	29.52	---	47.88
MW-26	07/08/11	77.40	---	29.48	---	47.92
MW-26	10/06/11	77.40	---	29.88	---	47.52
MW-26	04/12/12	77.40	---	30.77	---	46.63
MW-26	04/17/12	77.40	---	30.58	---	46.82
MW-26	01/11/13	77.40	---	32.17	---	45.23
MW-26	04/03/13	77.40	---	31.94	---	45.46
MW-26	04/08/13	77.40	---	31.86	---	45.54
MW-27	04/30/07	78.46	---	29.17	---	49.29
MW-27	11/12/07	78.46	---	29.75	---	48.71
MW-27	04/11/08	78.46	---	29.25	---	49.21

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
MW-27	07/24/08	78.46	---	29.96	---	48.50
MW-27	10/13/08	78.46	---	30.34	---	48.12
MW-27	02/09/09	78.46	---	30.44	---	48.02
MW-27	04/20/09	78.46	---	30.27	---	48.19
MW-27	10/19/09	78.46	---	31.23	---	47.23
MW-27	04/07/10	78.46	---	30.95	---	47.51
MW-27	04/12/10	78.46	---	30.79	---	47.67
MW-27	01/07/11	78.46	---	31.53	---	46.93
MW-27	04/06/11	78.46	---	29.82	---	48.64
MW-27	07/08/11	78.46	---	30.03	---	48.43
MW-27	10/06/11	78.46	---	30.06	---	48.40
MW-27	04/12/12	78.46	---	31.72	---	46.74
MW-27	04/17/12	78.46	---	31.49	---	46.97
MW-27	01/11/13	78.46	---	33.24	---	45.22
MW-27	04/03/13	78.46	---	33.02	---	45.44
MW-27	04/08/13	78.46	---	32.98	---	45.48
PZ-3	03/21/07	76.17	26.05	26.16	0.11	NC
PZ-3	04/30/07	76.17	26.66	26.68	0.02	NC
PZ-3	11/12/07	76.17	---	NM	---	NC
PZ-3	02/05/08	76.17	---	27.84	---	48.33
PZ-3	07/24/08	76.17	---	27.33	---	48.84
PZ-3	10/14/08	76.17	---	28.07	---	48.10
PZ-3	02/10/09	76.17	---	27.31	---	48.86
PZ-3	04/20/09	76.17	---	27.94	---	48.23
PZ-3	07/16/09	76.17	---	28.97	---	47.20
PZ-3	04/08/10	76.17	---	28.40	---	47.77
PZ-3	04/12/10	76.17	---	28.14	---	48.03
PZ-3	01/08/11	76.17	---	28.85	---	47.32
PZ-3	04/08/11	76.17	---	27.63	---	48.54
PZ-3	07/08/11	76.17	---	27.85	---	48.32
PZ-3	10/07/11	76.17	---	28.46	---	47.71
PZ-3	04/12/12	76.17	---	29.48	---	46.69
PZ-3	04/19/12	76.17	---	29.30	---	46.87
PZ-3	01/11/13	76.17	30.20	33.08	2.88	NC
PZ-3	04/03/13	76.17	30.63	30.86	0.23	NC
PZ-3	04/08/13	76.17	30.56	30.99	0.43	NC
TF-8	03/21/07	74.86	---	25.52	---	49.34
TF-8	04/30/07	74.86	---	25.54	---	49.32
TF-8	08/28/07	75.60	---	25.92	---	49.68
TF-8	11/12/07	74.86	---	26.12	---	48.74
TF-8	02/05/08	75.60	---	26.69	---	48.91
TF-8	04/11/08	74.86	---	25.78	---	49.08
TF-8	07/16/08	75.60	---	28.42	---	47.18
TF-8	07/24/08	75.60	---	27.05	---	48.55
TF-8	10/14/08	75.60	---	27.84	---	47.76
TF-8	02/10/09	75.60	---	27.69	---	47.91
TF-8	04/08/10	75.60	---	28.30	---	47.30
TF-8	10/01/10	74.86	---	27.81	---	47.05
TF-8	01/07/11	74.86	---	27.90	---	46.96
TF-8	04/08/11	74.86	---	26.52	---	48.34
TF-8	07/08/11	74.86	---	26.66	---	48.20
TF-8	10/07/11	74.86	---	27.18	---	47.68
TF-8	04/12/12	74.86	---	28.14	---	46.72
TF-8	01/11/13	74.86	---	29.56	---	45.30
TF-8	04/03/13	74.86	---	29.35	---	45.51
TF-18	03/21/07	73.94	23.91	24.02	0.11	NC

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
TF-18	04/30/07	73.94	24.30	24.35	0.05	NC
TF-18	11/09/07	73.94	---	24.85	---	49.09
TF-18	02/05/08	73.94	---	25.49	---	48.45
TF-18	07/24/08	73.94	---	24.97	---	48.97
TF-18	10/14/08	73.94	---	25.62	---	48.32
TF-18	02/10/09	73.94	---	25.88	---	48.06
TF-18	07/16/09	73.94	---	26.42	---	47.52
TF-18	04/08/10	73.94	25.70	25.73	0.03	NC
TF-18	10/01/10	73.94	---	26.35	---	47.59
TF-18	01/08/11	73.94	26.65	26.86	0.21	NC
TF-18	04/07/11	73.94	24.95	25.11	0.16	NC
TF-18	07/08/11	73.94	25.30	25.40	0.10	NC
TF-18	10/06/11	73.94	25.95	25.97	0.02	NC
TF-18	04/12/12	73.94	---	27.30	---	46.64
TF-18	01/10/13	73.94	27.85	30.25	2.40	NC
TF-18	04/03/13	73.94	28.04	28.80	0.76	NC
TF-21	03/21/07	75.60	---	25.51	---	50.09
TF-21	04/30/07	75.60	---	25.72	---	49.88
TF-21	08/28/07	75.60	---	26.17	---	49.43
TF-21	11/12/07	74.76	---	26.35	---	48.41
TF-21	02/05/08	75.60	---	27.25	---	48.35
TF-21	04/14/08	75.60	---	25.93	---	49.67
TF-21	07/24/08	74.96	---	26.51	---	48.45
TF-21	10/13/08	74.96	---	27.10	---	47.86
TF-21	02/10/09	75.60	---	26.72	---	48.88
TF-21	04/20/09	74.96	---	21.85	---	53.11
TF-21	07/17/09	75.60	---	27.31	---	48.29
TF-21	10/19/09	74.96	---	29.84	---	45.12
TF-21	04/08/10	75.60	---	27.30	---	48.30
TF-21	04/12/10	74.96	---	27.00	---	47.96
TF-21	10/01/10	74.96	---	NM	---	NC
TF-21	01/08/11	74.96	---	27.89	---	47.07
TF-21	04/08/11	74.96	---	26.09	---	48.87
TF-21	07/08/11	74.96	---	26.59	---	48.37
TF-21	10/06/11	74.96	---	27.23	---	47.73
TF-21	04/12/12	74.96	---	28.16	---	46.80
TF-21	04/20/12	74.96	---	28.14	---	46.82
TF-21	01/11/13	74.96	---	29.63	---	45.33
TF-21	04/03/13	74.96	---	29.43	---	45.53
TF-21	04/08/13	74.96	---	29.90	---	45.06
TF-23	03/21/07	75.31	---	25.51	---	49.80
TF-23	04/30/07	75.31	---	25.67	---	49.64
TF-23	11/12/07	75.31	---	26.20	---	49.11
TF-23	02/05/08	75.31	---	26.75	---	48.56
TF-23	04/14/08	75.31	---	25.81	---	49.50
TF-23	07/24/08	75.31	---	26.45	---	48.86
TF-23	10/13/08	75.31	---	27.15	---	48.16
TF-23	02/10/09	75.31	---	26.46	---	48.85
TF-23	07/17/09	75.31	---	26.93	---	48.38
TF-23	04/08/10	75.31	---	27.20	---	48.11
TF-23	10/01/10	75.31	---	27.67	---	47.64
TF-23	01/08/11	75.31	---	27.88	---	47.43
TF-23	04/08/11	75.31	---	26.43	---	48.88
TF-23	07/08/11	75.31	---	26.76	---	48.55
TF-23	10/06/11	75.31	---	27.34	---	47.97
TF-23	04/12/12	75.31	28.38	28.41	0.03	NC

TABLE 6

Summary of Historical Groundwater Elevations of Selected Wells

Defense Fuel Support Point, Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
TF-23	01/11/13	75.31	---	29.67	---	45.64
TF-23	04/03/13	75.31	29.60	29.70	0.10	NC
TF-24	03/21/07	76.43	25.88	26.52	0.64	NC
TF-24	11/12/07	76.43	---	28.03	---	48.40
TF-24	04/11/08	76.43	---	27.80	---	48.63
TF-24	07/24/08	76.43	---	28.10	---	48.33
TF-24	10/13/08	76.43	---	28.90	---	47.53
TF-24	02/09/09	76.43	---	29.90	---	46.53
TF-24	07/16/09	76.43	---	29.11	---	47.32
TF-24	04/07/10	76.43	---	29.20	---	47.23
TF-24	10/01/10	76.43	---	29.45	---	46.98
TF-24	01/08/11	76.43	---	29.45	---	46.98
TF-24	04/08/11	76.43	---	28.23	---	48.20
TF-24	07/07/11	76.43	---	28.47	---	47.96
TF-24	10/07/11	76.43	---	28.98	---	47.45
TF-24	04/12/12	76.43	---	29.98	---	46.45
TF-24	01/10/13	76.43	---	31.13	---	45.30
TF-24	04/02/13	76.43	---	31.11	---	45.32

Notes:

--- = not detected or applicable

feet btoc = feet below top of casing

feet msl = feet above mean sea level, based on Los Angeles County Datum, 1980

NM = not measured

NC = not calculated due to presence of product in well

FIGURES

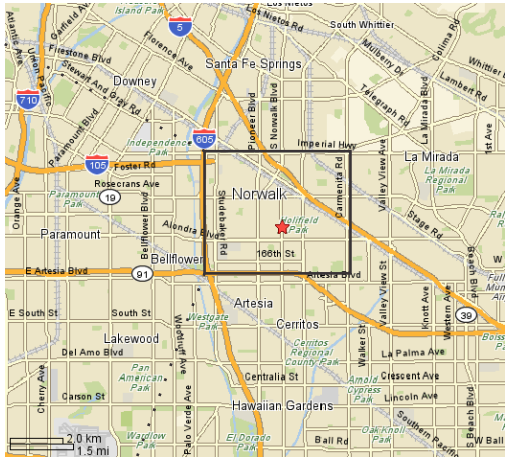

FIGURE 1

SITE LOCATION MAP

DEFENSE FUEL SUPPORT POINT
NORWALK, CALIFORNIA

PARSONS

Pasadena, California

draw\748575 Site Location Map.cdr ma 08/20/2012

℄ EXCELSIOR DRIVE

NORWALK BLVD

SERVICE ROAD

SERVICE ROAD

TREATMENT SYSTEM

GW-2

GW-13

GW-14

GW-15

GW-16

GMW-58

EASTERN BOUNDARY

VW WEST

VW EAST

TANK 80001

TANK 80002

TANK 80004

TANK 80005

TANK 80006

TANK 80007

TANK 80008

TANK 80009

TANK 80013

TANK 55003

TANK 55004

TANK 80017

AST-01-02
AST-01-03
AST-01-04
AST-01-05
AST-01-06
AST-01-07
VEW-23

AST-09-02
AST-09-03
AST-09-04
AST-09-05
AST-09-06
AST-09-07

AST-08-05
AST-08-06
AST-08-07
AST-08-09
VEW-24
VEW-25
VEW-26
VEW-27

SB-200
SB-201
SB-203
SB-205
SB-206
SB-207
SB-208

SP-8a
SP-8b
SP-9
SP-11A
SP-11B
SP-11c
SP-13
SP-13a
SP-13b
SP-13c
SP-13d
SP-14
SP-14a
SP-14b
SP-14c
SP-15
SP-15a
SP-16
SP-17a
SP-18
SP-18a
SP-20
SP-20A
SP-21
SP-21a
SP-21b
SP-22
SP-23
SP-23a
SP-23b
SP-24
SP-24a
SP-24b
SP-25a
SP-25b
SP-25c
SP-26a
SP-26b
SP-48
TF-24

VEW-20
VEW-21
VEW-22
VEW-28
VEW-29
VEW-30
VEW-31
VEW-32
VEW-33
VEW-34
VEW-35
VEW-36
VEW-37

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19

BSP-1
BSP-2
BSP-3
BSP-4
BSP-5
BSP-6
BSP-7
BSP-8
BSP-9

HW-1
HW-3
HW-5
HW-7

VW-07
VW-09
VW-10
VW-11
VW-12
VW-13
VW-14
VW-15
VW-16

TFS SVE MANIFOLD

TRUCK FILL STAND

SUMP

OIL-WATER SEPARATOR

ADMINISTRATION BUILDING

LABORATORY BUILDING

N

80 0 140

SCALE IN FEET

LEGEND

VEW-20 VAPOR EXTRACTION WELL

GW-13 GROUNDWATER EXTRACTION WELL

BSP-1 BIOSPARGE POINTS

SP-26a SPARGE POINTS INSTALLED IN AUGUST 2004

SP-8a TOTAL FLUIDS AND SPARGE POINTS

TFS SVE HDPE PIPING

TANK FARM SVE PVC PIPING

GROUNDWATER EXTRACTION SYSTEM PIPING

HORIZONTAL SVE PIPING

PARSONS

ABOVE GROUND STORAGE TANKS
DEFENSE FUEL SUPPLY POINT

NORWALK, CALIFORNIA

FIGURE 2

REMEDIATION SYSTEM LAYOUT

k:\depts\dept48\desc-07-2008 contract\norwalk\ACO-0001\remediation system layout.dwg

APPENDIX A

Laboratory Analytical Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-04-1064

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP - Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 04/22/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 13-04-1064

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/15/2013. They were assigned to Work Order 13-04-1064.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/15/13
Work Order No: 13-04-1064
Preparation: EPA 3020A Total
Method: EPA 6020

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1064-1-A**	**04/15/13 12:20**	**Aqueous**	**ICP/MS 03**	**04/18/13**	**04/18/13 21:32**	**130418L04**

Parameter	Result	RL	DF	Qual	Units
Arsenic	0.00118	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Surge Tank	**13-04-1064-2-A**	**04/15/13 12:25**	**Aqueous**	**ICP/MS 03**	**04/18/13**	**04/18/13 21:35**	**130418L04**

Parameter	Result	RL	DF	Qual	Units
Arsenic	0.0577	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4,085**	**N/A**	**Aqueous**	**ICP/MS 03**	**04/18/13**	**04/18/13 17:21**	**130418L04**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/15/13
Work Order No: 13-04-1064
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-04-1067-1	**Aqueous**	**ICP/MS 03**	**04/18/13**	**04/18/13**	**130418S04**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.004321	0.1000	0.1052	101	0.1050	101	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	04/15/13
100 West Walnut Street		Work Order No:	13-04-1064
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13-04-1067-1	**Aqueous**	**ICP/MS 03**	**04/18/13**	**04/18/13**	**130418S04**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.004321	0.1000	0.1007	96	75-125	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1064
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,085	**Aqueous**	**ICP/MS 03**	**04/18/13**	**130418-L-04__133.icp**	**130418L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.09631	96	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

WORK ORDER #: 13-04-1064

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-A	Effluent	EPA 6020	EPA 3020A T	04/18/2013 21:32	598	ICP/MS 03	1
2-A	Surge Tank	EPA 6020	EPA 3020A T	04/18/2013 21:35	598	ICP/MS 03	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841

Return to Contents

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-04-1064

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY: 13-04-1064

Date 4-15-13

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 91124

TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]	Arsenic		
1	Effluent	4-15-13	1220	GW	1		X																	X		
2	Surge Tank	"	1225	GW	1		X																	X		

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 4-15-13	Time: 1336
Relinquished by: (Signature) Rudy	Received by: (Signature/Affiliation) CEL	Date: 4/15/13	Time: 14:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the nd Yellow copies respectively.

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06/01/10 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-04- 1 0 6 4

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/15/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: BM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: BM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: HH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: HH

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: LC

Preservative: h: HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: LC

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-04-1558

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk - Quarterly

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 04/30/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk - Quarterly
Work Order Number: 13-04-1558

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/22/2013. They were assigned to Work Order 13-04-1558.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

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Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	04/22/13
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1558-1-N**	**04/22/13 12:15**	**Aqueous**	**GC 45**	**04/24/13**	**04/25/13 04:33**	**130424B05**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	93	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-94**	**N/A**	**Aqueous**	**GC 45**	**04/24/13**	**04/25/13 03:41**	**130424B05**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	97	68-140	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received: 04/22/13
100 West Walnut Street	Work Order No: 13-04-1558
Pasadena, CA 91124-0002	Preparation: EPA 5030C
	Method: EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1558-1-E**	**04/22/13 12:15**	**Aqueous**	**GC 25**	**04/24/13**	**04/24/13 21:28**	**130424B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	81	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-351**	**N/A**	**Aqueous**	**GC 25**	**04/24/13**	**04/24/13 10:47**	**130424B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	81	38-134	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1558

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**13-04-1558-1**	**04/22/13**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	04/25/13	04/25/13	EPA 420.1
Turbidity	9.1	0.10	1		NTU	N/A	04/22/13	SM 2130 B
Solids, Total Suspended	1.4	1.0	1		mg/L	04/24/13	04/24/13	SM 2540 D
Solids, Settleable	ND	0.10	1		mL/L/hr	N/A	04/23/13	SM 2540 F
pH	7.04	0.01	1		pH units	N/A	04/22/13	SM 4500 H+ B
Sulfide, Total	ND	0.050	1		mg/L	04/24/13	04/24/13	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	04/22/13	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	04/26/13	04/26/13	SM 5520 B
MBAS	ND	0.10	1		mg/L	04/23/13	04/23/13	SM 5540C

Method Blank					**N/A**	**Aqueous**		

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	04/25/13	04/25/13	EPA 420.1
Solids, Total Suspended	ND	1.0	1		mg/L	04/24/13	04/24/13	SM 2540 D
Sulfide, Total	ND	0.050	1		mg/L	04/24/13	04/24/13	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	04/22/13	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	04/26/13	04/26/13	SM 5520 B
MBAS	ND	0.10	1		mg/L	04/23/13	04/23/13	SM 5540C

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1558
Preparation: N/A
Method: SM 5540C

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**UV 8**	**04/23/13**	**04/23/13**	**D0423SURS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.0	0.96	96	0.98	98	70-130	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	04/22/13
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-04-1420-1	**Aqueous**	**GC 25**	**04/24/13**	**04/24/13**	**130424S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1884	94	1921	96	68-122	2	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 13-04-1558

Project: DFSP Norwalk - Quarterly

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chlorine, Total Residual	SM 4500-Cl F	Effluent	04/22/13	ND	ND	NA	0-25	
Turbidity	SM 2130 B	13-04-1521-1	04/22/13	0.62	0.63	2	0-25	
pH	SM 4500 H+ B	13-04-1521-1	04/22/13	7.24	7.27	0	0-25	
Sulfide, Total	SM 4500 S2 - D	13-04-1428-3	04/24/13	ND	ND	NA	0-25	
Solids, Settleable	SM 2540 F	13-04-1631-1	04/23/13	ND	ND	NA	0-25	
Solids, Total Suspended	SM 2540 D	13-04-1454-2	04/24/13	77	75	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 420.1

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-085-2,642	**Aqueous**	**UV 8**	**04/25/13**	**04/25/13**	**D0425PHEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenolics, Total	0.50	0.45	90	0.42	84	80-120	7	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5540C

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-093-2,491	**Aqueous**	**UV 8**	**04/23/13**	**NONE**	**D0423SURL1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
MBAS	1.0	0.97	97	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 4500 S2 - D

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-853-35	**Aqueous**	**N/A**	**04/24/13**	**04/24/13**	**D0424SL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfide, Total	1.0	0.80	80	0.80	80	80-120	0	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.	Date Received:	N/A
100 West Walnut Street	Work Order No:	13-04-1558
Pasadena, CA 91124-0002	Preparation:	N/A
	Method:	SM 5520 B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2,901	**Aqueous**	**N/A**	**04/26/13**	**04/26/13**	**D0426OGL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.0	39.2	98	38.0	95	80-120	3	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 2540 D

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-09-010-6,263	**Aqueous**	**N/A**	**04/24/13**	**NONE**	**D0424TSSL1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Solids, Total Suspended	100	92	92	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-94	**Aqueous**	**GC 45**	**04/24/13**	**04/25/13**	**130424B05**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4082	102	3899	97	75-117	5	0-13	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1558
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-351	**Aqueous**	**GC 25**	**04/24/13**	**04/24/13**	**130424B01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	1954	98	1925	96	78-120	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

ACCREDITED IN ACCORDANCE WITH nelac

WORK ORDER #: 13-04-1558

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-I	Effluent	SM 4500-Cl F	N/A	04/22/2013 19:23	688	BUR16	1
1-L	Effluent	SM 5520 B	N/A	04/26/2013 20:00	691	N/A	1
1-M	Effluent	EPA 420.1	N/A	04/25/2013 17:54	686	UV 8	1
1-K	Effluent	SM 2540 F	N/A	04/23/2013 14:00	691	N/A	1
1-I	Effluent	SM 5540C	N/A	04/23/2013 15:23	686	UV 8	1
1-J	Effluent	SM 2540 D	N/A	04/24/2013 15:30	722	N/A	1
1-I	Effluent	SM 2130 B	N/A	04/22/2013 19:26	688	TUR 3	1
1-E	Effluent	EPA 8015B (M)	EPA 5030C	04/24/2013 21:28	797	GC 25	2
1-I	Effluent	SM 4500 H+ B	N/A	04/22/2013 19:01	688	PH 1	1
1-N	Effluent	EPA 8015B (M)	EPA 3510C	04/25/2013 4:33	682	GC 45	1
1-G	Effluent	SM 4500 S2 - D	N/A	04/24/2013 19:06	735	N/A	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841
2	7445 Lampson Avenue, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-04-1558

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 4-22-13

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.
100 W. Walnut Street
CITY: Paasadena, CA 91124
TEL: 626-440-6032 FAX: E-MAIL Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Quarterly
PROJECT CONTACT: Mary Lucas / Cindy Zicker
SAMPLER(S) (SIGNATURE): Glenn Andrusk

P.O. NO.: 747572-05000
QUOTE NO.:
LAB USE ONLY: 13-04-1558

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	~~VOCs + Oxys(EPA 8260B)~~	~~Metals (EPA 6020: As,Cu,Se,Pb,Zn)~~	Total Suspended Solids (SM 2540D)	Settleable Solids (SM 2540F)	Total Sulfides (SM 4500 S-2)	Phenolics (EPA 420.1)	Residual Chlorine (SM 4500 Cl F)	MBAS (SM 5540C)	Comments
1	Effluent		4-22-13	1215	W	14	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) Glenn Andrusk	Received by: (Signature) CEL	Date: 4-22-13	Time: 1718
Relinquished by: (Signature)	Received by: (Signature) Dannyle CEL	Date: 4/22/13	Time: 18:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-04-1558

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/22/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.2 °C - 0.2 °C (CF) = 2.0 °C ☑ **Blank** ☐ **Sample**

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Initial:** BM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** BM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** JN

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** (6) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☑500AGJ ☑500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑1PB (3) ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☑125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** JN

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** BM

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-04-1572

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 04/29/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk
Work Order Number: 13-04-1572

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/22/2013. They were assigned to Work Order 13-04-1572.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

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Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1572
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1572-1-A**	**04/22/13 12:15**	**Aqueous**	**GC/MS OO**	**04/23/13**	**04/23/13 16:27**	**130423L01**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	8.9	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1572
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-10,745**	**N/A**	**Aqueous**	**GC/MS OO**	**04/23/13**	**04/23/13 13:19**	**130423L01**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1572
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Project: DFSP Norwalk

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1572-1-D**	**04/22/13 12:15**	**Aqueous**	**ICP/MS 03**	**04/24/13**	**04/24/13 18:34**	**130424L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.00619	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00139	0.00100	1		Zinc	0.00543	0.00500	1	
Lead	ND	0.00100	1						

Method Blank	096-06-003-4,094	N/A	Aqueous	ICP/MS 03	04/24/13	04/24/13 17:26	130424L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1572
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-04-1640-2	**Aqueous**	**ICP/MS 03**	**04/23/13**	**04/24/13**	**130424S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	4.750	0.1000	4.656	4X	4.572	4X	73-127	4X	0-11	Q
Copper	0.001197	0.1000	0.1008	100	0.1005	99	72-108	0	0-10	
Lead	ND	0.1000	0.1092	109	0.1078	108	79-121	1	0-10	
Selenium	ND	0.1000	0.08959	90	0.08701	87	59-125	3	0-12	
Zinc	ND	0.1000	0.09515	95	0.08890	89	43-145	7	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	04/22/13
100 West Walnut Street		Work Order No:	13-04-1572
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13-04-1640-2	**Aqueous**	**ICP/MS 03**	**04/23/13**	**04/24/13**	**130424S02**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	4.750	0.1000	4.705	4X	75-125	Q
Copper	0.001197	0.1000	0.1004	99	75-125	
Lead	ND	0.1000	0.1065	107	75-125	
Selenium	ND	0.1000	0.08912	89	75-125	
Zinc	ND	0.1000	0.09177	92	75-125	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1572
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-04-1260-1	**Aqueous**	**GC/MS OO**	**04/23/13**	**04/23/13**	**130423S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.87	92	55.15	110	78-120	18	0-20	
Carbon Tetrachloride	ND	50.00	49.85	100	59.00	118	67-139	17	0-20	
Chlorobenzene	ND	50.00	48.67	97	57.62	115	80-120	17	0-20	
1,2-Dibromoethane	ND	50.00	45.70	91	54.83	110	80-123	18	0-20	
1,2-Dichlorobenzene	ND	50.00	48.15	96	57.25	115	76-120	17	0-20	
1,2-Dichloroethane	ND	50.00	46.28	93	55.66	111	76-130	18	0-20	
1,1-Dichloroethene	ND	50.00	48.16	96	56.09	112	70-130	15	0-27	
Ethylbenzene	ND	50.00	46.80	94	55.20	110	73-127	16	0-20	
Toluene	ND	50.00	47.85	96	57.12	114	72-126	18	0-20	
Trichloroethene	ND	50.00	46.54	93	54.98	110	74-122	17	0-20	
Vinyl Chloride	ND	50.00	42.42	85	50.90	102	65-131	18	0-24	
p/m-Xylene	ND	100.0	91.65	92	109.3	109	70-130	18	0-30	
o-Xylene	ND	50.00	47.44	95	56.38	113	70-130	17	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.55	83	48.99	98	69-123	16	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	261.8	105	304.0	122	65-131	15	0-22	
Diisopropyl Ether (DIPE)	1.804	50.00	45.68	88	53.59	104	68-128	16	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	41.52	83	48.27	97	69-123	15	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	41.55	83	50.19	100	70-124	19	0-20	
Ethanol	ND	500.0	661.2	132	723.0	145	41-155	9	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1572
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,094	**Aqueous**	**ICP/MS 03**	**04/24/13**	**130424-L-02__092.icp**	**130424L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.1040	104	80-120	
Copper	0.1000	0.1101	110	80-120	
Lead	0.1000	0.1015	101	80-120	
Selenium	0.1000	0.09767	98	80-120	
Zinc	0.1000	0.1079	108	80-120	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1572
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-10,745	**Aqueous**	**GC/MS OO**	**04/23/13**	**04/23/13**	**130423L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.05	92	52.50	105	80-120	73-127	13	0-20	
Carbon Tetrachloride	50.00	49.17	98	56.57	113	66-138	54-150	14	0-20	
Chlorobenzene	50.00	48.22	96	54.77	110	80-120	73-127	13	0-20	
1,2-Dibromoethane	50.00	46.69	93	52.84	106	80-120	73-127	12	0-20	
1,2-Dichlorobenzene	50.00	47.60	95	54.74	109	80-120	73-127	14	0-20	
1,2-Dichloroethane	50.00	47.96	96	53.37	107	80-129	72-137	11	0-20	
1,1-Dichloroethene	50.00	47.04	94	53.88	108	71-131	61-141	14	0-20	
Ethylbenzene	50.00	45.77	92	52.77	106	80-123	73-130	14	0-20	
Toluene	50.00	47.52	95	55.38	111	79-121	72-128	15	0-20	
Trichloroethene	50.00	45.55	91	53.54	107	80-120	73-127	16	0-20	
Vinyl Chloride	50.00	42.54	85	48.63	97	70-136	59-147	13	0-20	
p/m-Xylene	100.0	90.80	91	103.8	104	75-125	67-133	13	0-25	
o-Xylene	50.00	46.47	93	52.79	106	75-125	67-133	13	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	41.86	84	46.78	94	72-126	63-135	11	0-22	
Tert-Butyl Alcohol (TBA)	250.0	226.7	91	265.2	106	71-125	62-134	16	0-25	
Diisopropyl Ether (DIPE)	50.00	43.64	87	49.82	100	69-129	59-139	13	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	41.12	82	46.37	93	69-129	59-139	12	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	42.54	85	47.57	95	67-133	56-144	11	0-20	
Ethanol	500.0	556.5	111	688.3	138	47-155	29-173	21	0-36	

Total number of LCS compounds : 19
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

ACCREDITED IN ACCORDANCE WITH nelac

WORK ORDER #: 13-04-1572

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-D	Effluent	EPA 6020	EPA 3020A T	04/24/2013 18:34	598	ICP/MS 03	1
1-A	Effluent	EPA 8260B	EPA 5030C	04/23/2013 16:27	486	GC/MS OO	2

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841
2	7445 Lampson Avenue, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-04-1572

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY
13-04-1572

Date 4-22-13
Page 1 of 1

LABORATORY CLIENT: Parsons
ADDRESS: 100 W. Walnut St
CITY: Pasadena STATE: CA ZIP:
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk
P.O. NO.: 747576-05000
PROJECT CONTACT: Mary Lucas / Cindy Zicker
SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]	Metals 6020 As, Cu, Se, Pb, Zn		
1	Effluent	4-22-13	1215	GW									X	X										X		

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 4-22-13	Time: 17:18
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 4/22/13	Time: 18:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-04- 1572

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/22/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: RM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: RM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: [illegible]

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☑	☐
☑ Collection date/time, matrix, and/or # of containers logged in based on sample labels. 4/22/13			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: [illegible]

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: RL

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: RL

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-04-2011

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 04/30/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk
Work Order Number: 13-04-2011

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/29/2013. They were assigned to Work Order 13-04-2011.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/29/13
Work Order No: 13-04-2011
Preparation: EPA 3020A Total
Method: EPA 6020

Project: DFSP Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-2011-1-A**	**04/29/13 10:45**	**Aqueous**	**ICP/MS 03**	**04/29/13**	**04/29/13 20:27**	**130429L04A**

Parameter	Result	RL	DF	Qual	Units
Arsenic	0.0239	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4,099**	**N/A**	**Aqueous**	**ICP/MS 03**	**04/29/13**	**04/29/13 19:35**	**130429L04A**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/29/13
Work Order No: 13-04-2011
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-04-1872-1	**Aqueous**	**ICP/MS 03**	**04/29/13**	**04/29/13**	**130429S04**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.001575	0.1000	0.1073	106	0.1069	105	73-127	0	0-11	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	04/29/13
100 West Walnut Street		Work Order No:	13-04-2011
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13-04-1872-1	**Aqueous**	**ICP/MS 03**	**04/29/13**	**04/29/13**	**130429S04**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.001575	0.1000	0.1005	99	75-125	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-2011
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,099	**Aqueous**	**ICP/MS 03**	**04/29/13**	**130429-L-04__128.icp**	**130429L04A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.09993	100	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

WORK ORDER #: 13-04-2011

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-A	Effluent	EPA 6020	EPA 3020A T	04/29/2013 20:27	598	ICP/MS 03	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-04-2011

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other CA office locations: Concord and San Luis Obispo
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
13-04-2011

Date M 4-29-13
Page 1 of 1

LABORATORY CLIENT: Parsons
ADDRESS: 100 W. Walnut St
CITY: Pasadena STATE: CA ZIP: 91124
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk
P.O. NO.: 747577-05000
PROJECT CONTACT: Mary Lucas / Cindy Zicker
SAMPLER(S): (PRINT) G. Androsko

TURNAROUND TIME:
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic 6020	Hold		
1	Effluent	4-29-13	1045	GW	1		X																X			
2	Surge Tank	"	1050	GW	1		X																	X		

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) Alex Mayes CCL	Date: 4-29-13	Time: 1245
Relinquished by: (Signature) Alex Mayes	Received by: (Signature/Affiliation) Dannyle CCL	Date: 4/29/13	Time: 13:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

11/01/12 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-04-2011

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 04/29/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☐ Not Present Initial: _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: DL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: _____

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: _____

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-05-0849

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk (NPDES New Permit)

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 05/31/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk (NPDES New Permit)
Work Order Number: 13-05-0849

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 05/10/2013. They were assigned to Work Order 13-05-0849.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Calscience Environmental Laboratories, Inc.

Subcontractor Analysis Report

ACCREDITED IN ACCORDANCE WITH nelac

Work Order # 13-05-0849

One or more samples in this Work Order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1 EMSL- LA Testing - South Pasadena,CA CA ELAP 2283
EPA 100.2 Asbestos

2 Frontier Analytical Laboratories - El Dorado Hills,CA NELAP 02113CA
EPA 8290 - 2,3,7,8-TCDD

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-L**	**05/10/13 13:00**	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13 12:29**	**130514B06**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	6300	100	1	HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	96	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-97**	**N/A**	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13 10:01**	**130514B06**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	86	68-140	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-L**	**05/10/13 13:00**	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13 12:29**	**130514B06**

Comment(s): -The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND	100	1		C21-C22	ND	100	1	
C7	250	100	1		C23-C24	ND	100	1	
C8	520	100	1		C25-C28	ND	100	1	
C9-C10	1500	100	1		C29-C32	ND	100	1	
C11-C12	2000	100	1		C33-C36	ND	100	1	
C13-C14	1600	100	1		C37-C40	ND	100	1	
C15-C16	230	100	1		C41-C44	ND	100	1	
C17-C18	ND	100	1		C6-C44 Total	6400	100	1	
C19-C20	ND	100	1						

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	96	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-498-69**	**N/A**	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13 10:01**	**130514B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND	100	1		C21-C22	ND	100	1	
C7	ND	100	1		C23-C24	ND	100	1	
C8	ND	100	1		C25-C28	ND	100	1	
C9-C10	ND	100	1		C29-C32	ND	100	1	
C11-C12	ND	100	1		C33-C36	ND	100	1	
C13-C14	ND	100	1		C37-C40	ND	100	1	
C15-C16	ND	100	1		C41-C44	ND	100	1	
C17-C18	ND	100	1		C6-C44 Total	ND	100	1	
C19-C20	ND	100	1						

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	86	68-140	

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7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-E**	**05/10/13 13:00**	**Aqueous**	**GC 25**	**05/13/13**	**05/13/13 22:09**	**130513B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	5500	500	5	HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-377**	**N/A**	**Aqueous**	**GC 25**	**05/13/13**	**05/13/13 11:02**	**130513B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	38-134	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3520C
		Method:	EPA 1625CM

Project: DFSP Norwalk (NPDES New Permit) Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-S**	**05/10/13 13:00**	**Aqueous**	**GC/MS III**	**05/13/13**	**05/17/13 13:27**	**130513L08**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	84	10	5		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	84	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-07-027-777**	**N/A**	**Aqueous**	**GC/MS III**	**05/13/13**	**05/17/13 12:34**	**130513L08**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	70	50-130	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.	Date Received:	05/10/13
100 West Walnut Street	Work Order No:	13-05-0849
Pasadena, CA 91124-0002	Preparation:	EPA 504.1 Ext.
	Method:	EPA 504.1
	Units:	ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-J**	**05/10/13 13:00**	**Aqueous**	**GC 40**	**05/13/13**	**05/13/13 16:57**	**130513L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2-Dibromoethane	ND	0.010	1		1,2-Dibromo-3-Chloropropane	ND	0.010	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-520-388**	**N/A**	**Aqueous**	**GC 40**	**05/13/13**	**05/13/13 14:57**	**130513L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2-Dibromoethane	ND	0.010	1		1,2-Dibromo-3-Chloropropane	ND	0.010	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 8015B(M)
		Units:	mg/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-G**	**05/10/13 13:00**	**Aqueous**	**GC 12**	**N/A**	**05/14/13 23:48**	**130514L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethanol	ND	0.10	1		Methanol	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual
Hexafluoro-2-propanol	98	63-147	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-006-3,762**	**N/A**	**Aqueous**	**GC 12**	**N/A**	**05/14/13 17:46**	**130514L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethanol	ND	0.10	1		Methanol	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual
Hexafluoro-2-propanol	99	63-147	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-D**	**05/10/13 13:00**	**Aqueous**	**GC 51**	**05/14/13**	**05/15/13 12:23**	**130514L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.050	1		4,4'-DDE	ND	0.050	1	
Gamma-BHC	ND	0.050	1		Endrin	ND	0.050	1	
Beta-BHC	ND	0.050	1		Endrin Aldehyde	ND	0.050	1	
Heptachlor	ND	0.050	1		4,4'-DDD	ND	0.050	1	
Delta-BHC	ND	0.050	1		Endosulfan II	ND	0.050	1	
Aldrin	ND	0.050	1		4,4'-DDT	ND	0.050	1	
Heptachlor Epoxide	ND	0.050	1		Endosulfan Sulfate	ND	0.050	1	
Endosulfan I	ND	0.050	1		Chlordane	ND	0.50	1	
Dieldrin	ND	0.050	1		Toxaphene	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	103	50-135			2,4,5,6-Tetrachloro-m-Xylene	151	50-135		2,7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-525-182**	**N/A**	**Aqueous**	**GC 51**	**05/14/13**	**05/15/13 11:08**	**130514L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.050	1		4,4'-DDE	ND	0.050	1	
Gamma-BHC	ND	0.050	1		Endrin	ND	0.050	1	
Beta-BHC	ND	0.050	1		Endrin Aldehyde	ND	0.050	1	
Heptachlor	ND	0.050	1		4,4'-DDD	ND	0.050	1	
Delta-BHC	ND	0.050	1		Endosulfan II	ND	0.050	1	
Aldrin	ND	0.050	1		4,4'-DDT	ND	0.050	1	
Heptachlor Epoxide	ND	0.050	1		Endosulfan Sulfate	ND	0.050	1	
Endosulfan I	ND	0.050	1		Chlordane	ND	0.50	1	
Dieldrin	ND	0.050	1		Toxaphene	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	93	50-135			2,4,5,6-Tetrachloro-m-Xylene	75	50-135		

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-P**	**05/10/13 13:00**	**Aqueous**	**GC 58**	**05/14/13**	**05/16/13 12:46**	**130514L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	0.50	1		Aroclor-1248	ND	0.50	1	
Aroclor-1221	ND	0.50	1		Aroclor-1254	ND	0.50	1	
Aroclor-1232	ND	0.50	1		Aroclor-1260	ND	0.50	1	
Aroclor-1242	ND	0.50	1						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Decachlorobiphenyl	87	50-135			2,4,5,6-Tetrachloro-m-Xylene	98	50-135		

Method Blank	**099-12-527-393**	**N/A**	**Aqueous**	**GC 58**	**05/14/13**	**05/16/13 11:52**	**130514L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	0.50	1		Aroclor-1248	ND	0.50	1	
Aroclor-1221	ND	0.50	1		Aroclor-1254	ND	0.50	1	
Aroclor-1232	ND	0.50	1		Aroclor-1260	ND	0.50	1	
Aroclor-1242	ND	0.50	1						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Decachlorobiphenyl	90	50-135			2,4,5,6-Tetrachloro-m-Xylene	63	50-135		

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-N**	**05/10/13 13:00**	**Aqueous**	**GC/MS TT**	**05/13/13**	**05/15/13 13:20**	**130513L11**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrotoluene	ND	5.0	1	
Phenol	ND	5.0	1		2,6-Dinitrotoluene	ND	5.0	1	
Bis(2-Chloroethyl) Ether	ND	10	1		Diethyl Phthalate	ND	5.0	1	
2-Chlorophenol	ND	5.0	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		Fluorene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		4,6-Dinitro-2-Methylphenol	ND	25	1	
1,2-Dichlorobenzene	ND	5.0	1		N-Nitrosodiphenylamine	ND	5.0	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	1		4-Bromophenyl-Phenyl Ether	ND	5.0	1	
N-Nitroso-di-n-propylamine	ND	5.0	1		Hexachlorobenzene	ND	5.0	1	
Hexachloroethane	ND	5.0	1		Pentachlorophenol	ND	5.0	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	5.0	1	
Isophorone	ND	5.0	1		Anthracene	ND	5.0	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	7.4	5.0	1	
2,4-Dimethylphenol	ND	5.0	1		Fluoranthene	ND	5.0	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	5.0	1		Pyrene	ND	5.0	1	
1,2-Diphenylhydrazine	ND	2.0	1		Butyl Benzyl Phthalate	ND	5.0	1	
1,2,4-Trichlorobenzene	ND	5.0	1		3,3'-Dichlorobenzidine	ND	5.0	1	
Naphthalene	8.9	5.0	1		Benzo (a) Anthracene	ND	5.0	1	
Hexachloro-1,3-Butadiene	ND	5.0	1		Bis(2-Ethylhexyl) Phthalate	66	5.0	1	
4-Chloro-3-Methylphenol	ND	5.0	1		Chrysene	ND	5.0	1	
Hexachlorocyclopentadiene	ND	15	1		Di-n-Octyl Phthalate	ND	5.0	1	
2,4,6-Trichlorophenol	ND	5.0	1		Benzo (k) Fluoranthene	ND	5.0	1	
2-Chloronaphthalene	ND	5.0	1		Benzo (b) Fluoranthene	ND	5.0	1	
Dimethyl Phthalate	ND	5.0	1		Benzo (a) Pyrene	ND	5.0	1	
Acenaphthylene	ND	5.0	1		Benzo (g,h,i) Perylene	ND	5.0	1	
Acenaphthene	ND	5.0	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	1	
2,4-Dinitrophenol	ND	25	1		Dibenz (a,h) Anthracene	ND	5.0	1	
4-Nitrophenol	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	49	15-138		Phenol-d6	32	17-141	
Nitrobenzene-d5	74	56-123		2-Fluorobiphenyl	64	45-120	
2,4,6-Tribromophenol	98	32-143		p-Terphenyl-d14	81	46-133	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-818-155**	**N/A**	**Aqueous**	**GC/MS TT**	**05/13/13**	**05/15/13 10:47**	**130513L11**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrotoluene	ND	5.0	1	
Phenol	ND	5.0	1		2,6-Dinitrotoluene	ND	5.0	1	
Bis(2-Chloroethyl) Ether	ND	10	1		Diethyl Phthalate	ND	5.0	1	
2-Chlorophenol	ND	5.0	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		Fluorene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		4,6-Dinitro-2-Methylphenol	ND	25	1	
1,2-Dichlorobenzene	ND	5.0	1		N-Nitrosodiphenylamine	ND	5.0	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	1		4-Bromophenyl-Phenyl Ether	ND	5.0	1	
N-Nitroso-di-n-propylamine	ND	5.0	1		Hexachlorobenzene	ND	5.0	1	
Hexachloroethane	ND	5.0	1		Pentachlorophenol	ND	5.0	1	
Nitrobenzene	ND	25	1		Phenanthrene	ND	5.0	1	
Isophorone	ND	5.0	1		Anthracene	ND	5.0	1	
2-Nitrophenol	ND	10	1		Di-n-Butyl Phthalate	ND	5.0	1	
2,4-Dimethylphenol	ND	5.0	1		Fluoranthene	ND	5.0	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	5.0	1		Pyrene	ND	5.0	1	
1,2-Diphenylhydrazine	ND	2.0	1		Butyl Benzyl Phthalate	ND	5.0	1	
1,2,4-Trichlorobenzene	ND	5.0	1		3,3'-Dichlorobenzidine	ND	5.0	1	
Naphthalene	ND	5.0	1		Benzo (a) Anthracene	ND	5.0	1	
Hexachloro-1,3-Butadiene	ND	5.0	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	1	
4-Chloro-3-Methylphenol	ND	5.0	1		Chrysene	ND	5.0	1	
Hexachlorocyclopentadiene	ND	15	1		Di-n-Octyl Phthalate	ND	5.0	1	
2,4,6-Trichlorophenol	ND	5.0	1		Benzo (k) Fluoranthene	ND	5.0	1	
2-Chloronaphthalene	ND	5.0	1		Benzo (b) Fluoranthene	ND	5.0	1	
Dimethyl Phthalate	ND	5.0	1		Benzo (a) Pyrene	ND	5.0	1	
Acenaphthylene	ND	5.0	1		Benzo (g,h,i) Perylene	ND	5.0	1	
Acenaphthene	ND	5.0	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	1	
2,4-Dinitrophenol	ND	25	1		Dibenz (a,h) Anthracene	ND	5.0	1	
4-Nitrophenol	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	58	15-138		Phenol-d6	38	17-141	
Nitrobenzene-d5	79	56-123		2-Fluorobiphenyl	75	45-120	
2,4,6-Tribromophenol	116	32-143		p-Terphenyl-d14	96	46-133	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3520C
		Method:	EPA 8270C(M) Isotope Dilution

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-T**	**05/10/13 13:00**	**Aqueous**	**GC/MS DDD**	**05/13/13**	**05/15/13 15:20**	**130513L10**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	73	56-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-09-004-2,295**	**N/A**	**Aqueous**	**GC/MS DDD**	**05/13/13**	**05/15/13 13:44**	**130513L10**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	91	56-123	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-A**	**05/10/13 13:00**	**Aqueous**	**GC/MS GGG**	**05/11/13**	**05/11/13 17:31**	**130511L01**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	20	0.50	0.11	1		c-1,2-Dichloroethene	ND	1.0	0.18	1	
Bromodichloromethane	ND	1.0	0.14	1		t-1,2-Dichloroethene	ND	1.0	0.30	1	
Bromoform	ND	1.0	0.50	1		1,2-Dichloropropane	ND	1.0	0.11	1	
Bromomethane	ND	5.0	2.4	1		Acrolein	ND	25	9.5	1	
Carbon Tetrachloride	ND	0.50	0.13	1		Acrylonitrile	ND	10	0.36	1	
Chlorobenzene	ND	1.0	0.12	1		c-1,3-Dichloropropene	ND	0.50	0.12	1	
Chloroethane	ND	2.0	0.25	1		t-1,3-Dichloropropene	ND	0.50	0.14	1	
2-Chloroethyl Vinyl Ether	ND	50	5.1	1		Ethylbenzene	8.0	0.50	0.088	1	
Chloroform	ND	1.0	0.16	1		Methylene Chloride	ND	5.0	0.23	1	
Chloromethane	ND	2.0	1.8	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.11	1	
Dibromochloromethane	ND	1.0	0.24	1		Tetrachloroethene	ND	1.0	0.13	1	
1,2-Dichlorobenzene	ND	1.0	0.14	1		Toluene	4.7	1.0	0.091	1	
1,3-Dichlorobenzene	ND	1.0	0.13	1		1,1,1-Trichloroethane	ND	1.0	0.14	1	
1,4-Dichlorobenzene	ND	1.0	0.13	1		1,1,2-Trichloroethane	ND	1.0	0.084	1	
1,1-Dichloroethane	ND	1.0	0.28	1		Trichloroethene	ND	1.0	0.16	1	
1,2-Dichloroethane	2.5	0.50	0.17	1		Vinyl Chloride	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.11	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	102	80-120	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-026-630**	**N/A**	**Aqueous**	**GC/MS GGG**	**05/11/13**	**05/11/13 12:36**	**130511L01**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.11	1		c-1,2-Dichloroethene	ND	1.0	0.18	1	
Bromodichloromethane	ND	1.0	0.14	1		t-1,2-Dichloroethene	ND	1.0	0.30	1	
Bromoform	ND	1.0	0.50	1		1,2-Dichloropropane	ND	1.0	0.11	1	
Bromomethane	ND	5.0	2.4	1		Acrolein	ND	25	9.5	1	
Carbon Tetrachloride	ND	0.50	0.13	1		Acrylonitrile	ND	10	0.36	1	
Chlorobenzene	ND	1.0	0.12	1		c-1,3-Dichloropropene	ND	0.50	0.12	1	
Chloroethane	ND	2.0	0.25	1		t-1,3-Dichloropropene	ND	0.50	0.14	1	
2-Chloroethyl Vinyl Ether	ND	50	5.1	1		Ethylbenzene	ND	0.50	0.088	1	
Chloroform	ND	1.0	0.16	1		Methylene Chloride	ND	5.0	0.23	1	
Chloromethane	ND	2.0	1.8	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.11	1	
Dibromochloromethane	ND	1.0	0.24	1		Tetrachloroethene	ND	1.0	0.13	1	
1,2-Dichlorobenzene	ND	1.0	0.14	1		Toluene	ND	1.0	0.091	1	
1,3-Dichlorobenzene	ND	1.0	0.13	1		1,1,1-Trichloroethane	ND	1.0	0.14	1	
1,4-Dichlorobenzene	0.16	1.0	0.13	1	J	1,1,2-Trichloroethane	ND	1.0	0.084	1	
1,1-Dichloroethane	ND	1.0	0.28	1		Trichloroethene	ND	1.0	0.16	1	
1,2-Dichloroethane	ND	0.50	0.17	1		Vinyl Chloride	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.11	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	98	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-A**	**05/10/13 13:00**	**Aqueous**	**GC/MS GGG**	**05/11/13**	**05/11/13 17:31**	**130511L01**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	15	20	10	1	J	Tert-Butyl Alcohol (TBA)	4.8	10	4.6	1	J
2-Butanone	7.2	10	2.2	1	J	Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
p/m-Xylene	41	1.0	0.24	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
o-Xylene	14	1.0	0.23	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Methyl-t-Butyl Ether (MTBE)	0.56	1.0	0.31	1	J						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	102	80-120	

Method Blank	099-14-001-10,907	N/A	Aqueous	GC/MS GGG	05/11/13	05/11/13 12:36	130511L01

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
2-Butanone	ND	10	2.2	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
p/m-Xylene	ND	1.0	0.24	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
o-Xylene	ND	1.0	0.23	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	93	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	98	80-120	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-M**	**05/10/13 13:00**	**Aqueous**	**ICP 7300**	**05/13/13**	**05/13/13 20:49**	**130513LA5**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	0.0721	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

Method Blank	097-01-003-13,420	N/A	Aqueous	ICP 7300	05/13/13	05/14/13 12:11	130513LA5

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 7470A Total
		Method:	EPA 7470A

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-05-0849-1-M**	**05/10/13 13:00**	**Aqueous**	**Mercury**	**05/13/13**	**05/13/13 17:22**	**130513L06M**

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.000200	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-457-304**	**N/A**	**Aqueous**	**Mercury**	**05/13/13**	**05/13/13 17:04**	**130513L06M**

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.000200	1		mg/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849

Project: DFSP Norwalk (NPDES New Permit)

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Influent	**13-05-0849-1**	**05/10/13**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	05/13/13	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	05/10/13	EPA 7199
Cyanide, Total	0.0015	0.0010	1		mg/L	05/22/13	05/22/13	SM 4500-CN E

Method Blank			**N/A**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	05/13/13	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	05/10/13	EPA 7199
Cyanide, Total	ND	0.0010	1		mg/L	05/22/13	05/22/13	SM 4500-CN E

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 3010A Total
Method: EPA 6010B

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0879-3	**Aqueous**	**ICP 7300**	**05/13/13**	**05/14/13**	**130513SA5**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.5504	110	0.5604	112	72-132	2	0-10	
Arsenic	0.06326	0.5000	0.6295	113	0.6428	116	80-140	2	0-11	
Beryllium	ND	0.5000	0.5093	102	0.5220	104	89-119	2	0-8	
Cadmium	ND	0.5000	0.4989	100	0.5122	102	82-124	3	0-7	
Chromium	ND	0.5000	0.4927	99	0.5072	101	86-122	3	0-8	
Copper	ND	0.5000	0.5248	105	0.5405	108	78-126	3	0-7	
Lead	ND	0.5000	0.5052	101	0.5144	103	84-120	2	0-7	
Nickel	ND	0.5000	0.5169	103	0.5352	107	84-120	3	0-7	
Selenium	ND	0.5000	0.5519	110	0.5582	112	79-127	1	0-9	
Silver	ND	0.2500	0.2642	106	0.2722	109	86-128	3	0-7	
Thallium	ND	0.5000	0.4791	96	0.4908	98	79-121	2	0-8	
Zinc	ND	0.5000	0.5502	110	0.5584	112	89-131	1	0-8	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: N/A
Method: EPA 7199

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Influent	**Aqueous**	**IC 14**	**N/A**	**05/10/13**	**130510S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	50	8.4	17	8.3	17	70-130	2	0-25	3

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 314.0

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0985-3	**Aqueous**	**IC 13**	**N/A**	**05/13/13**	**130513S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	50	50	99	48	96	80-120	3	0-15	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0783-2	**Aqueous**	**GC 25**	**05/13/13**	**05/13/13**	**130513S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	1091	2000	2801	86	2811	86	68-122	0	0-18	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 7470A Total
		Method:	EPA 7470A

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0882-2	**Aqueous**	**Mercury**	**05/13/13**	**05/13/13**	**130513S06**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008605	86	0.008160	82	57-141	5	0-10	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: N/A
Method: EPA 8015B(M)

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0827-2	**Aqueous**	**GC 12**	**N/A**	**05/14/13**	**130514S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethanol	ND	2.000	1.780	89	1.778	89	70-130	0	0-25	
Methanol	ND	2.000	1.762	88	1.752	88	70-130	1	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	05/10/13
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 504.1 Ext.
		Method:	EPA 504.1

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Influent	**Aqueous**	**GC 40**	**05/13/13**	**05/13/13**	**130513S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2-Dibromoethane	ND	0.2857	0.1990	70	0.2150	75	60-140	8	0-25	
1,2-Dibromo-3-Chloropropane	ND	0.2857	0.2660	93	0.2820	99	60-140	6	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0828-2	**Aqueous**	**GC/MS GGG**	**05/11/13**	**05/11/13**	**130511S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	49.80	100	47.06	94	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	49.80	100	47.52	95	67-139	5	0-20	
Chlorobenzene	ND	50.00	52.77	106	50.59	101	80-120	4	0-20	
1,2-Dibromoethane	ND	50.00	51.91	104	50.46	101	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	53.85	108	51.85	104	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	50.42	101	48.50	97	76-130	4	0-20	
1,1-Dichloroethene	ND	50.00	45.13	90	42.21	84	70-130	7	0-27	
Ethylbenzene	ND	50.00	52.14	104	49.52	99	73-127	5	0-20	
Toluene	ND	50.00	50.85	102	48.14	96	72-126	5	0-20	
Trichloroethene	ND	50.00	44.39	89	41.44	83	74-122	7	0-20	
Vinyl Chloride	ND	50.00	44.29	89	42.17	84	65-131	5	0-24	
p/m-Xylene	ND	100.0	109.4	109	104.4	104	70-130	5	0-30	
o-Xylene	ND	50.00	56.16	112	53.95	108	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.29	95	47.93	96	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	256.4	103	210.5	84	65-131	20	0-22	
Diisopropyl Ether (DIPE)	2.246	50.00	47.81	91	47.20	90	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.48	97	48.17	96	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	51.94	104	50.77	102	70-124	2	0-20	
Ethanol	ND	500.0	397.1	79	337.4	67	41-155	16	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 05/10/13
Work Order No: 13-05-0849
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-05-0828-2	**Aqueous**	**GC/MS GGG**	**05/11/13**	**05/11/13**	**130511S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	49.80	100	47.06	94	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	49.80	100	47.52	95	67-139	5	0-20	
Chlorobenzene	ND	50.00	52.77	106	50.59	101	80-120	4	0-20	
1,2-Dichlorobenzene	ND	50.00	53.85	108	51.85	104	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	50.42	101	48.50	97	76-130	4	0-20	
1,1-Dichloroethene	ND	50.00	45.13	90	42.21	84	70-130	7	0-27	
Ethylbenzene	ND	50.00	52.14	104	49.52	99	73-127	5	0-20	
Toluene	ND	50.00	50.85	102	48.14	96	72-126	5	0-20	
Trichloroethene	ND	50.00	44.39	89	41.44	83	74-122	7	0-20	
Vinyl Chloride	ND	50.00	44.29	89	42.17	84	65-131	5	0-24	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-13,420	**Aqueous**	**ICP 7300**	**05/14/13**	**130513-la-5__27.icp**	**130513LA5**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	ME_CL	Qualifiers
Antimony	0.5000	0.5161	103	80-120	73-127	
Arsenic	0.5000	0.5148	103	80-120	73-127	
Beryllium	0.5000	0.5030	101	80-120	73-127	
Cadmium	0.5000	0.5333	107	80-120	73-127	
Chromium	0.5000	0.5102	102	80-120	73-127	
Copper	0.5000	0.4983	100	80-120	73-127	
Lead	0.5000	0.5404	108	80-120	73-127	
Nickel	0.5000	0.5597	112	80-120	73-127	
Selenium	0.5000	0.4850	97	80-120	73-127	
Silver	0.2500	0.2476	99	80-120	73-127	
Thallium	0.5000	0.5487	110	80-120	73-127	
Zinc	0.5000	0.5538	111	80-120	73-127	

Total number of LCS compounds : 12
Total number of ME compounds: 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 7199

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-123-3,347	**Aqueous**	**IC 14**	**05/10/13**	**0032**	**130510L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chromium, Hexavalent	50	50	100	80-120	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 314.0

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-203-1,690	**Aqueous**	**IC 13**	**N/A**	**05/13/13**	**130513L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	25	26	104	25	101	85-115	2	0-15	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 4500-CN E

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-357-43	**Aqueous**	**UV 8**	**05/22/13**	**05/22/13**	**D0522CNL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cyanide, Total	0.010	0.0085	85	0.0086	86	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-97	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13**	**130514B06**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4319	108	4287	107	75-117	1	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-498-69	**Aqueous**	**GC 46**	**05/14/13**	**05/16/13**	**130514B06**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4319	108	4287	107	75-117	1	0-13	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-704-377	**Aqueous**	**GC 25**	**05/13/13**	**05/13/13**	**130513B01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	1886	94	1887	94	78-120	0	0-10	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 7470A Total
		Method:	EPA 7470A

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-457-304	**Aqueous**	**Mercury**	**05/13/13**	**130513-L-06.icp**	**130513L06M**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Mercury	0.01000	0.01051	105	90-122	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 8015B(M)

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-006-3,762	**Aqueous**	**GC 12**	**05/14/13**	**13051403**	**130514L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Ethanol	2.000	1.827	91	76-112	
Methanol	2.000	2.008	100	69-117	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3520C
		Method:	EPA 8270C(M) Isotope Dilution

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-2,295	**Aqueous**	**GC/MS DDD**	**05/13/13**	**05/15/13**	**130513L10**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	200.0	219.3	110	220.4	110	50-130	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3520C
		Method:	EPA 1625CM

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-027-777	**Aqueous**	**GC/MS III**	**05/13/13**	**05/17/13**	**130513L08**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	20.00	20.83	104	19.29	96	50-130	8	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 504.1 Ext.
		Method:	EPA 504.1

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-520-388	**Aqueous**	**GC 40**	**05/13/13**	**13051303**	**130513L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
1,2-Dibromoethane	0.2857	0.2620	92	60-140	
1,2-Dibromo-3-Chloropropane	0.2857	0.2570	90	60-140	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8081A

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-525-182	**Aqueous**	**GC 51**	**05/14/13**	**05/15/13**	**130514L06**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.2500	0.2471	99	0.2358	94	50-135	36-149	5	0-25	
Gamma-BHC	0.2500	0.2480	99	0.2368	95	50-135	36-149	5	0-25	
Beta-BHC	0.2500	0.2415	97	0.2370	95	50-135	36-149	2	0-25	
Heptachlor	0.2500	0.2387	95	0.2198	88	50-135	36-149	8	0-25	
Delta-BHC	0.2500	0.2646	106	0.2553	102	50-135	36-149	4	0-25	
Aldrin	0.2500	0.2240	90	0.2029	81	50-135	36-149	10	0-25	
Heptachlor Epoxide	0.2500	0.2459	98	0.2350	94	50-135	36-149	4	0-25	
Endosulfan I	0.2500	0.2434	97	0.2364	95	50-135	36-149	3	0-25	
Dieldrin	0.2500	0.2498	100	0.2433	97	50-135	36-149	3	0-25	
4,4'-DDE	0.2500	0.2608	104	0.2503	100	50-135	36-149	4	0-25	
Endrin	0.2500	0.2580	103	0.2523	101	50-135	36-149	2	0-25	
Endrin Aldehyde	0.2500	0.2456	98	0.2538	102	50-135	36-149	3	0-25	
4,4'-DDD	0.2500	0.2624	105	0.2526	101	50-135	36-149	4	0-25	
Endosulfan II	0.2500	0.2556	102	0.2496	100	50-135	36-149	2	0-25	
4,4'-DDT	0.2500	0.2559	102	0.2495	100	50-135	36-149	3	0-25	
Endosulfan Sulfate	0.2500	0.2550	102	0.2487	99	50-135	36-149	3	0-25	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8082

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-527-393	**Aqueous**	**GC 58**	**05/14/13**	**05/16/13**	**130514L07**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	1.000	0.8895	89	0.8848	88	50-135	1	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8270C

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-818-155	**Aqueous**	**GC/MS TT**	**05/13/13**	**05/15/13**	**130513L11**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	100.0	46.53	47	46.42	46	12-151	0-174	0	0-23	
2-Chlorophenol	100.0	80.88	81	80.46	80	45-135	30-150	1	0-18	
1,4-Dichlorobenzene	100.0	62.53	63	62.62	63	36-118	22-132	0	0-26	
N-Nitroso-di-n-propylamine	100.0	69.19	69	68.24	68	52-128	39-141	1	0-13	
1,2,4-Trichlorobenzene	100.0	74.33	74	73.57	74	42-120	29-133	1	0-21	
4-Chloro-3-Methylphenol	100.0	79.09	79	77.65	78	20-150	0-172	2	0-40	
Acenaphthene	100.0	81.99	82	82.61	83	51-137	37-151	1	0-11	
4-Nitrophenol	100.0	40.14	40	40.16	40	20-150	0-172	0	0-40	
2,4-Dinitrotoluene	100.0	92.09	92	91.69	92	25-143	5-163	0	0-36	
Pentachlorophenol	100.0	87.93	88	87.27	87	20-150	0-172	1	0-40	
Pyrene	100.0	82.76	83	83.90	84	45-135	30-150	1	0-20	

Total number of LCS compounds : 11
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-14-001-10,907	**Aqueous**	**GC/MS GGG**	**05/11/13**	**11MAY003.rr**	**130511L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	ME_CL	Qualifiers
Benzene	50.00	50.73	101	80-120	73-127	
Carbon Tetrachloride	50.00	54.34	109	66-138	54-150	
Chlorobenzene	50.00	54.74	109	80-120	73-127	
1,2-Dibromoethane	50.00	52.21	104	80-120	73-127	
1,2-Dichlorobenzene	50.00	56.84	114	80-120	73-127	
1,2-Dichloroethane	50.00	49.70	99	80-129	72-137	
1,1-Dichloroethene	50.00	47.69	95	71-131	61-141	
Ethylbenzene	50.00	55.01	110	80-123	73-130	
Toluene	50.00	52.38	105	79-121	72-128	
Trichloroethene	50.00	49.17	98	80-120	73-127	
Vinyl Chloride	50.00	47.47	95	70-136	59-147	
p/m-Xylene	100.0	116.6	117	75-125	67-133	
o-Xylene	50.00	58.37	117	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	49.04	98	72-126	63-135	
Tert-Butyl Alcohol (TBA)	250.0	268.4	107	71-125	62-134	
Diisopropyl Ether (DIPE)	50.00	47.26	95	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	50.80	102	69-129	59-139	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.96	106	67-133	56-144	
Ethanol	500.0	418.4	84	47-155	29-173	

Total number of LCS compounds : 19
Total number of ME compounds: 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-05-0849
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk (NPDES New Permit)

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-026-630	**Aqueous**	**GC/MS GGG**	**05/11/13**	**11MAY003.rr**	**130511L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Benzene	50.00	50.73	101	80-120	
Carbon Tetrachloride	50.00	54.34	109	66-138	
Chlorobenzene	50.00	54.74	109	80-120	
1,2-Dichlorobenzene	50.00	56.84	114	80-120	
1,2-Dichloroethane	50.00	49.70	99	80-129	
1,1-Dichloroethene	50.00	47.69	95	71-131	
Ethylbenzene	50.00	55.01	110	80-123	
Toluene	50.00	52.38	105	79-121	
Trichloroethene	50.00	49.17	98	80-120	
Vinyl Chloride	50.00	47.47	95	70-136	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

ACCREDITED IN ACCORDANCE WITH nelac

WORK ORDER #: 13-05-0849

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-M	Influent	EPA 6010B	EPA 3010A T	05/13/2013 20:49	598	ICP 7300	1
1-A	Influent	EPA 8260B	EPA 5030C	05/11/2013 17:31	791	GC/MS GG	2
1-V	Influent	EPA 7199	N/A	05/10/2013 18:09	758	IC 14	1
1-G	Influent	EPA 8015B(M)	N/A	05/14/2013 23:48	684	GC 12	1
1-T	Influent	EPA 8270C(M) Iso	EPA 3520C	05/15/2013 15:20	449	GC/MS DD	1
1-W	Influent	EPA 314.0	N/A	05/13/2013 19:24	758	IC 13	1
1-S	Influent	EPA 1625CM	EPA 3520C	05/17/2013 13:27	449	GC/MS III	1
1-A	Influent	EPA 8260B	EPA 5030C	05/11/2013 17:31	791	GC/MS GG	2
1-E	Influent	EPA 8015B (M)	EPA 5030C	05/13/2013 22:09	797	GC 25	2
1-M	Influent	EPA 7470A	EPA 7470A T	05/13/2013 17:22	769	Mercury	1
1-J	Influent	EPA 504.1	EPA 504.1 E	05/13/2013 16:57	669	GC 40	1
1-D	Influent	EPA 8081A	EPA 3510C	05/15/2013 12:23	500	GC 51	1
1-P	Influent	EPA 8082	EPA 3510C	05/16/2013 12:46	669	GC 58	1
1-N	Influent	EPA 8270C	EPA 3510C	05/15/2013 13:20	513	GC/MS TT	1
1-U	Influent	SM 4500-CN E	N/A	05/22/2013 18:53	735	UV 8	1
1-L	Influent	EPA 8015B (M)	EPA 3510C	05/16/2013 12:29	847	GC 46	1
1-L	Influent	EPA 8015B (M)	EPA 3510C	05/16/2013 12:29	847	GC 46	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841
2	7445 Lampson Avenue, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-05-0849

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY: **13-05-0849**

Date: F 5-10-13

Page: 1 of 1

LABORATORY CLIENT: Parsons	CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk (NPDES New Permit)
ADDRESS: 100 W. Walnut St	P.O. NO.: 747576
CITY: Pasadena STATE: CA ZIP: 91124	PROJECT CONTACT: Mary Lucas / Cindy Zicker
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com	SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH-gas	VOC's (8260B)	TPH-diesel/motor oil/carbon chain	Metals	SVOC's	Pesticides, Organochlorine	PCB's	TCDD (1613)	NDMA	1,4 Dioxane	EDB/DBCP	Methanol/Ethanol (unpres)	Cyanide	Wet Chem	Perchlorate (314.0)	Asbestos		
1	Influent	5-10-13	1300	GW	25	13	12		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) COEL	Date: 5-10-13	Time: 16:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/10/13	Time: 1700
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-05-0649

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 05/10/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Initial: DEE

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: DEE

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: SH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☐	☐	☐
COC document(s) received complete	☐	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☐
Sample container label(s) consistent with COC	☐	☐	☐
Sample container(s) intact and good condition	☐	☐	☐
Proper containers and sufficient volume for analyses requested	☐	☐	☐
Analyses received within holding time	☐	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA ☑VOAh ☑VOA**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na**$_2$ ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑1PB ☑1PB**na** ☐500PB

☑250PB ☑250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na**$_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SH

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** YC

Preservative: **h:** HCL **n:** HNO_3 **na**$_2$:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** YC

Return to Contents

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.latesting.com / pasadenalab@latesting.com

LA Testing Order ID: 321308274
Customer ID: 32CALS51
Customer PO:
Project ID:

Attn: Ranjit Clarke
Calscience Environmental Labs, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Collected: 05/10/2013
Received: 05/13/2013
Analyzed: 05/20/2013

Proj: 13-05-0849

Test Report: Determination of Asbestos Structures > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
Influent 321308274-0001	5/15/2013 04:45 PM	3	1288	0.2860	None Detected	ND	1.50	<1.50	0.00 - 5.50

UV OZONATED - Received Past Hold Time

Analyst(s)
Sherrie Ahmad (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 05/20/2013 10:07:29

Return to Contents

321308274

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

TO: LA Testing

CHAIN OF CUSTODY RECORD

DATE: 05/13/13

PAGE: 1 OF 1

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.	CLIENT PROJECT NAME / NUMBER: 13-05-0849
ADDRESS: 7440 Lincoln Way	PROJECT CONTACT: Ranjit Clarke
CITY: Garden Grove, CA 92841-1427	SAMPLER(S): (PRINT)
TEL: (714) 895-5494	E-MAIL: rclarke@calscience.com
P.O. NO.:	QUOTE NO.:
LAB USE ONLY	

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS ☐ 6+ DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Asbestos by EPA 100.2
	Influent	05/10/13	1300	W	2	X

Relinquished by: (Signature) (CALSCIENCE)	Received by / Affiliation: (Signature)	Date: 5/13/13	Time: 11:36
Relinquished by: (Signature)	Received by / Affiliation: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by / Affiliation: (Signature)	Date:	Time:

Return to Contents

May 30, 2013

FAL Project ID: 7894

Mr. Ranjit Clarke
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Clarke,

Attached are the results for Frontier Analytical Laboratory project **7894**. This corresponds to your project number **13-05-0849**. One aqueous sample was received on 5/14/2013 in good condition. This sample was extracted and analyzed by EPA Method 8290 for 2,3,7,8-TCDD only. Calscience requested a turnaround time of ten business days for project **7894**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The attached results and electronic data deliverables (EDD) are specifically for the sample referenced in this report only. These results meet all National Environmental Laboratory Accreditation Program (NELAP) requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of California NELAP certificate number is **02113CA**. This report and EDD have been emailed to you directly. A hardcopy of the report will not be sent to you unless specifically requested.

If you have any questions regarding project **7894**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Thomas C. Crabtree

Thomas C. Crabtree
Director

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **7894**

Received on: **05/14/2013** Project Due: **05/30/2013** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
7894-001-SA	1	13-05-0849	Influent	EPA 8290 TCDD	Aqueous	05/10/2013	01:00 pm	06/11/2013

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5172 Hillsdale Circle * El Dorado Hills, CA 95762 * Tel (916) 934-0900 * Fax (916) 934-0999 * www.frontieranalytical.com

EPA Method 8290
TCDD

FAL ID: 7894-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X2854

Date Extracted: 05-28-2013
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-26-13
GC Column: DB5
Units: pg/L

Acquired: 05-29-2013
WHO TEQ: NA

Compound	Conc	DL	Qual	MDL
2,3,7,8-TCDD	ND	0.481		0.155

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.7	40.0 - 135	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	91.3	50.0 - 150	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Return to Contents

Analyst: _____
Date: 5/30/2013

Reviewed By: _____
Date: 5/30/2013

5172 Hillsdale Circle * El Dorado Hills, CA 95762 * Tel (916) 934-0900 * Fax (916) 934-0999 * www.frontieranalytical.com

EPA Method 8290
TCDD

FAL ID: 7894-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X2854

Date Extracted: 05-28-2013
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL3-4-26-13
GC Column: DB5
Units: ng/ml

Acquired: 05-29-2013
WHO TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	8.29	7.00 - 13.0

Internal Standards	% Rec	QC Limits
13C-2,3,7,8-TCDD	82.7	40.0 - 135

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	91.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Return to Contents

Analyst: _____
Date: 5/30/2013

Reviewed By: _____
Date: 5/30/2013

5172 Hillsdale Circle * El Dorado Hills, CA 95762 * Tel (916) 934-0900 * Fax (916) 934-0999 * www.frontieranalytical.com

EPA Method 8290
TCDD

FAL ID: 7894-001-SA
Client ID: Influent
Matrix: Aqueous
Batch No: X2854

Date Extracted: 05-28-2013
Date Received: 05-14-2013
Amount: 1.023 L

ICal: PCDDFAL3-4-26-13
GC Column: DB5
Units: pg/L

Acquired: 05-29-2013
WHO TEQ: NA

Compound	Conc	DL	Qual	MDL
2,3,7,8-TCDD	ND	0.758		0.155

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.0	40.0 - 135	

Cleanup Surrogate			
37Cl-2,3,7,8-TCDD	85.8	50.0 - 150	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Return to Contents

Analyst: _____
Date: 5/30/2013

Reviewed By: _____
Date: 5/30/2013

5172 Hillsdale Circle * El Dorado Hills, CA 95762 * Tel (916) 934-0900 * Fax (916) 934-0999 * www.frontieranalytical.com

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

TO: Frontier Analytical

CHAIN OF CUSTODY RECORD

DATE: 05/13/13

PAGE: 1 OF 1

1894

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.	CLIENT PROJECT NAME / NUMBER: 13-05-0849
ADDRESS: 7440 Lincoln Way	PROJECT CONTACT: Ranjit Clarke
CITY: Garden Grove, CA 92841-1427	SAMPLER(S): (PRINT)
TEL: (714) 895-5494	E-MAIL: rclarke@calscience.com
P.O. NO.:	QUOTE NO.:
LAB USE ONLY	

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 72HR ☐ 5 DAYS ☒ 10 DAYS ☐ Normal

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS

10 Day TAT

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	EPA 8290 (2,3,7,8-TCDD only)
	Influent	05/10/13	1300	W	2	X

Relinquished by: (Signature)	(CALSCIENCE)	Received by / Affiliation: (Signature) ONTRAC # D10010578331434	Date: 5/13/13 Time: 1600
Relinquished by: (Signature)		Received by / Affiliation: (Signature)	Date: 5/14/13 Time: 1020
Relinquished by: (Signature)		Received by / Affiliation: (Signature)	Date: Time:

000000 of 000000

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Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **7894**

Client:	Calscience
Client Project ID:	13-05-0849
Date Received:	05/14/2013
Time Received:	10:20 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	1
Storage Location:	R1

Method of Delivery:	California Overnight
Tracking Number:	D10010578331434
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	06/11/2013
Adequate Sample Volume	Yes
pH Range	Between 4 and 9
Anomalies or additional comments:	

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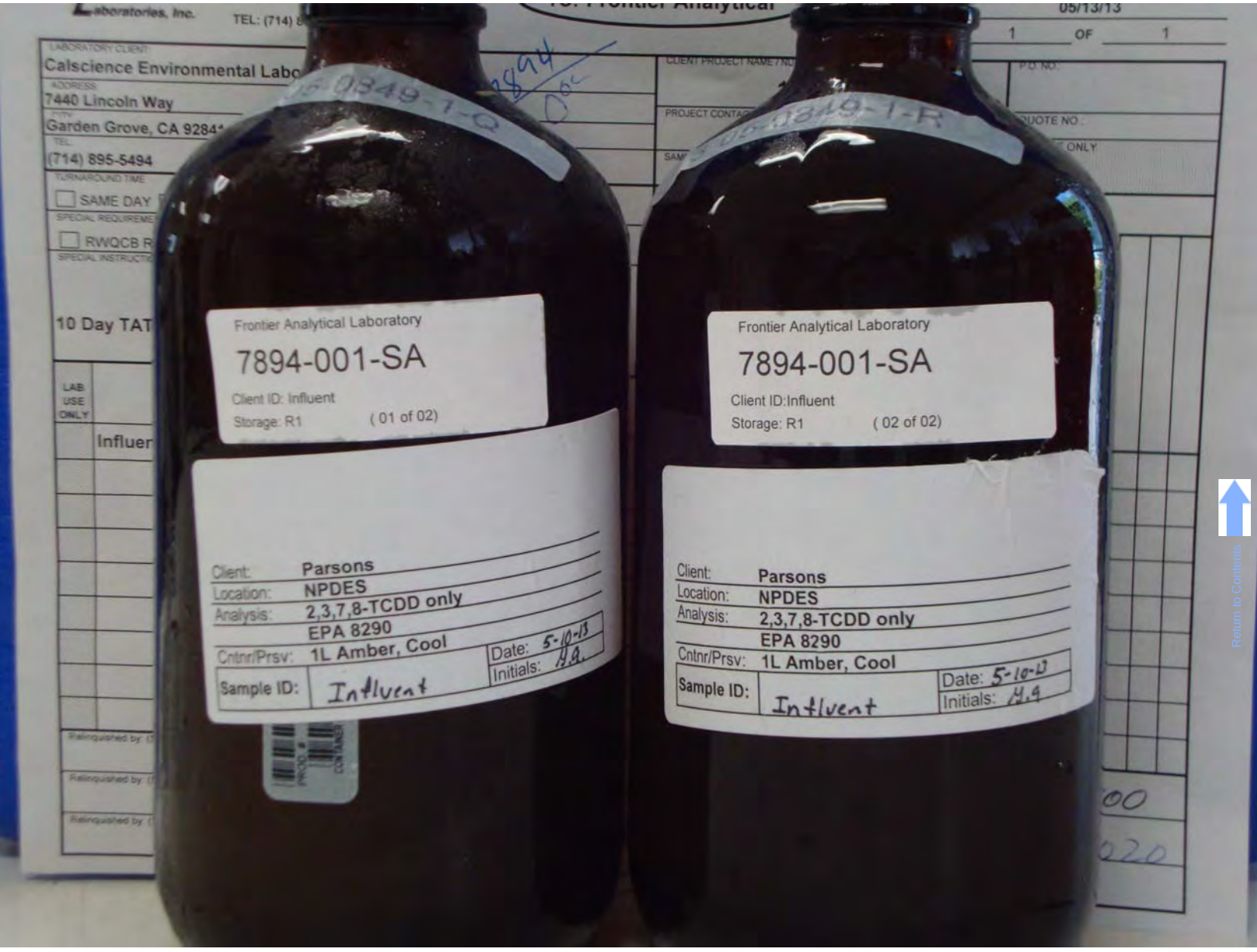

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-06-0658

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP Norwalk - Quarterly

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 06/19/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP Norwalk - Quarterly
Work Order Number: 13-06-0658

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 06/11/2013. They were assigned to Work Order 13-06-0658.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

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Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	06/11/13
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EFFLUENT	**13-06-0658-1-I**	**06/11/13 08:30**	**Aqueous**	**GC 47**	**06/12/13**	**06/12/13 20:51**	**130612B11**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	83	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-282-105**	**N/A**	**Aqueous**	**GC 47**	**06/12/13**	**06/12/13 19:18**	**130612B11**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
n-Octacosane	78	68-140	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	06/11/13
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EFFLUENT	**13-06-0658-1-E**	**06/11/13 08:30**	**Aqueous**	**GC 25**	**06/12/13**	**06/12/13 17:46**	**130612B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-416**	**N/A**	**Aqueous**	**GC 25**	**06/12/13**	**06/12/13 11:03**	**130612B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	38-134	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EFFLUENT	**13-06-0658-1-B**	**06/11/13 08:30**	**Aqueous**	**GC/MS QQ**	**06/12/13**	**06/13/13 04:07**	**130612L03**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	87	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	117	80-134		Toluene-d8	106	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-11,196**	**N/A**	**Aqueous**	**GC/MS QQ**	**06/12/13**	**06/12/13 22:27**	**130612L03**

Comment(s): -Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	87	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	105	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EFFLUENT	**13-06-0658-1-J**	**06/11/13 08:30**	**Aqueous**	**ICP/MS 03**	**06/12/13**	**06/13/13 14:12**	**130612L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00490	0.00100	1		Zinc	0.00774	0.00500	1	
Lead	ND	0.00100	1						

Method Blank	096-06-003-4,128	N/A	Aqueous	ICP/MS 03	06/12/13	06/13/13 13:31	130612L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658

Project: DFSP Norwalk - Quarterly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
EFFLUENT	**13-06-0658-1**	**06/11/13**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	06/19/13	06/19/13	EPA 420.1
Turbidity	0.090	0.050	1		NTU	N/A	06/11/13	SM 2130 B
Solids, Total Suspended	ND	1.0	1		mg/L	06/12/13	06/12/13	SM 2540 D
Solids, Settleable	ND	0.10	1		mL/L/hr	N/A	06/12/13	SM 2540 F
pH	7.09	0.01	1		pH units	N/A	06/11/13	SM 4500 H+ B
Sulfide, Total	ND	0.050	1		mg/L	06/11/13	06/11/13	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	06/11/13	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	06/12/13	06/12/13	SM 5520 B
MBAS	ND	0.10	1		mg/L	06/12/13	06/12/13	SM 5540C

Method Blank					**N/A**	**Aqueous**		

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	06/19/13	06/19/13	EPA 420.1
Solids, Total Suspended	ND	1.0	1		mg/L	06/12/13	06/12/13	SM 2540 D
Sulfide, Total	ND	0.050	1		mg/L	06/11/13	06/11/13	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	06/11/13	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	06/12/13	06/12/13	SM 5520 B
MBAS	ND	0.10	1		mg/L	06/12/13	06/12/13	SM 5540C

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EFFLUENT	**Aqueous**	**ICP/MS 03**	**06/12/13**	**06/13/13**	**130612S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1044	104	0.1046	105	73-127	0	0-11	
Copper	0.004897	0.1000	0.09884	94	0.09998	95	72-108	1	0-10	
Lead	ND	0.1000	0.1128	113	0.1135	113	79-121	1	0-10	
Selenium	ND	0.1000	0.09197	92	0.09099	91	59-125	1	0-12	
Zinc	0.007744	0.1000	0.09021	82	0.08838	81	43-145	2	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.	Date Received	06/11/13
100 West Walnut Street	Work Order No:	13-06-0658
Pasadena, CA 91124-0002	Preparation:	EPA 3020A Total
	Method:	EPA 6020

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
EFFLUENT	**Aqueous**	**ICP/MS 03**	**06/12/13**	**06/13/13**	**130612S03**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	ND	0.1000	0.1035	103	75-125	
Copper	0.004897	0.1000	0.09984	95	75-125	
Lead	ND	0.1000	0.1071	107	75-125	
Selenium	ND	0.1000	0.08670	87	75-125	
Zinc	0.007744	0.1000	0.09200	84	75-125	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: N/A
Method: SM 5540C

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-0717-1	**Aqueous**	**UV 8**	**06/12/13**	**06/12/13**	**D0612SURS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.0	0.95	95	0.94	94	70-130	1	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	06/11/13
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5520 B

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-0480-1	**Aqueous**	**N/A**	**06/12/13**	**06/12/13**	**D0612OGS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Oil and Grease	31.7	40.0	70.3	96	71.3	99	80-120	1	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-0657-1	**Aqueous**	**GC 25**	**06/12/13**	**06/12/13**	**130612S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1989	99	1936	97	68-122	3	0-18	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/11/13
Work Order No: 13-06-0658
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-0605-5	**Aqueous**	**GC/MS QQ**	**06/12/13**	**06/12/13**	**130612S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.72	103	54.25	109	78-120	5	0-20	
Carbon Tetrachloride	ND	50.00	57.92	116	61.51	123	67-139	6	0-20	
Chlorobenzene	ND	50.00	50.84	102	51.39	103	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	56.82	114	59.92	120	80-123	5	0-20	
1,2-Dichlorobenzene	ND	50.00	49.20	98	51.61	103	76-120	5	0-20	
1,2-Dichloroethane	ND	50.00	53.67	107	56.40	113	76-130	5	0-20	
1,1-Dichloroethene	ND	50.00	57.38	115	63.26	127	70-130	10	0-27	
Ethylbenzene	ND	50.00	52.37	105	52.35	105	73-127	0	0-20	
Toluene	ND	50.00	49.67	99	47.51	95	72-126	4	0-20	
Trichloroethene	ND	50.00	51.18	102	53.30	107	74-122	4	0-20	
Vinyl Chloride	ND	50.00	55.97	112	59.01	118	65-131	5	0-24	
p/m-Xylene	ND	100.0	105.8	106	109.1	109	70-130	3	0-30	
o-Xylene	ND	50.00	53.31	107	55.87	112	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	56.43	113	61.00	122	69-123	8	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	252.7	101	264.9	106	65-131	5	0-22	
Diisopropyl Ether (DIPE)	ND	50.00	59.01	118	62.08	124	68-128	5	0-22	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	54.51	109	58.25	117	69-123	7	0-21	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.05	98	51.35	103	70-124	5	0-20	
Ethanol	ND	500.0	570.7	114	560.3	112	41-155	2	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 13-06-0658

Project: DFSP Norwalk - Quarterly

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chlorine, Total Residual	SM 4500-Cl F	EFFLUENT	06/11/13	ND	ND	NA	0-25	
Turbidity	SM 2130 B	EFFLUENT	06/11/13	0.090	0.090	0	0-25	
pH	SM 4500 H+ B	EFFLUENT	06/11/13	7.09	7.11	0	0-25	
Sulfide, Total	SM 4500 S2 - D	13-06-0698-5	06/11/13	ND	ND	NA	0-25	
Solids, Total Suspended	SM 2540 D	13-06-0674-1	06/12/13	138	134	3	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,128	**Aqueous**	**ICP/MS 03**	**06/13/13**	**130312-L-03__053.icp**	**130612L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.09709	97	80-120	
Copper	0.1000	0.1007	101	80-120	
Lead	0.1000	0.09526	95	80-120	
Selenium	0.1000	0.09486	95	80-120	
Zinc	0.1000	0.1016	102	80-120	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 420.1

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-085-2,659	**Aqueous**	**UV 9**	**06/19/13**	**06/19/13**	**D0619PHEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenolics, Total	0.50	0.44	88	0.41	82	80-120	7	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5540C

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-093-2,521	**Aqueous**	**UV 8**	**06/12/13**	**NONE**	**D0612SURL1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
MBAS	1.0	0.95	95	80-120	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 4500 S2 - D

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-853-61	**Aqueous**	**N/A**	**06/11/13**	**06/11/13**	**D0611SL2**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfide, Total	1.0	0.85	85	0.85	85	80-120	0	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 5520 B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2,909	**Aqueous**	**N/A**	**06/12/13**	**06/12/13**	**D0612OGL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.0	38.4	96	39.1	98	80-120	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	SM 2540 D

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-6,323	**Aqueous**	**N/A**	**06/12/13**	**06/12/13**	**D0612TSSL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100	93	93	90	90	80-120	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-105	**Aqueous**	**GC 47**	**06/12/13**	**06/12/13**	**130612B11**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	3994	100	3929	98	75-117	2	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-15-704-416	**Aqueous**	**GC 25**	**06/12/13**	**13061204**	**130612B02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Gasoline	2000	1944	97	78-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-0658
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk - Quarterly

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-14-001-11,196	**Aqueous**	**GC/MS QQ**	**06/12/13**	**12JUN028.rr**	**130612L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	ME_CL	Qualifiers
Benzene	50.00	50.50	101	80-120	73-127	
Carbon Tetrachloride	50.00	56.39	113	66-138	54-150	
Chlorobenzene	50.00	48.10	96	80-120	73-127	
1,2-Dibromoethane	50.00	56.38	113	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.45	101	80-120	73-127	
1,2-Dichloroethane	50.00	52.06	104	80-129	72-137	
1,1-Dichloroethene	50.00	58.29	117	71-131	61-141	
Ethylbenzene	50.00	50.59	101	80-123	73-130	
Toluene	50.00	46.91	94	79-121	72-128	
Trichloroethene	50.00	49.41	99	80-120	73-127	
Vinyl Chloride	50.00	57.34	115	70-136	59-147	
p/m-Xylene	100.0	103.3	103	75-125	67-133	
o-Xylene	50.00	52.39	105	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	56.66	113	72-126	63-135	
Tert-Butyl Alcohol (TBA)	250.0	228.5	91	71-125	62-134	
Diisopropyl Ether (DIPE)	50.00	57.06	114	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	53.40	107	69-129	59-139	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.66	95	67-133	56-144	
Ethanol	500.0	547.0	109	47-155	29-173	

Total number of LCS compounds : 19
Total number of ME compounds: 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

ACCREDITED IN ACCORDANCE WITH nelac

WORK ORDER #: 13-06-0658

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-G	EFFLUENT	SM 4500-Cl F	N/A	06/11/2013 17:05	688	BUR16	1
1-H	EFFLUENT	SM 5520 B	N/A	06/12/2013 18:00	691	N/A	1
1-N	EFFLUENT	EPA 420.1	N/A	06/19/2013 15:10	686	UV 9	1
1-L	EFFLUENT	SM 2540 F	N/A	06/12/2013 19:20	691	N/A	1
1-G	EFFLUENT	SM 5540C	N/A	06/12/2013 15:03	687	UV 8	1
1-K	EFFLUENT	SM 2540 D	N/A	06/12/2013 13:40	722	N/A	1
1-G	EFFLUENT	SM 2130 B	N/A	06/11/2013 20:18	650	TUR 3	1
1-J	EFFLUENT	EPA 6020	EPA 3020A T	06/13/2013 14:12	598	ICP/MS 03	1
1-B	EFFLUENT	EPA 8260B	EPA 5030C	06/13/2013 4:07	510	GC/MS QQ	2
1-E	EFFLUENT	EPA 8015B (M)	EPA 5030C	06/12/2013 17:46	797	GC 25	2
1-G	EFFLUENT	SM 4500 H+ B	N/A	06/11/2013 19:12	688	PH 1	1
1-I	EFFLUENT	EPA 8015B (M)	EPA 3510C	06/12/2013 20:51	682	GC 47	1
1-M	EFFLUENT	SM 4500 S2 - D	N/A	06/11/2013 20:00	687	N/A	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841
2	7445 Lampson Avenue, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-06-0658

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 06-11-2013

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.
100 W. Walnut Street
CITY: Paasadena, CA 91124
TEL: | FAX: | E-MAIL

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Quarterly
PROJECT CONTACT: MARY LUCAS
SAMPLER(S): (SIGNATURE) Milton L. Douglas
P.O. NO.:
QUOTE NO.:
LAB USE ONLY 13-06-0658

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys(EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)	Total Suspended Solids (SM 2540D)	Settleable Solids (SM 2540F)	Total Sulfides (SM 4500 S-2)	Phenolics (EPA 420.1)	Residual Chlorine (SM 4500 Cl F)	MBAS (SM 5540C)	Comments
1	EFFLUENT	GWTS	6-11-13	0830	W	14	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) Milton L. Douglas	Received by: (Signature) CEL	Date: 6/11/13	Time: 1300
Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 6/11/13	Time: 1415
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-06-0658

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 06/11/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑(6)VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☑500AGJ ☑500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑(5)1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☑125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** _____

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-06-1486

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP - Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 06/28/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 13-06-1486

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 06/21/2013. They were assigned to Work Order 13-06-1486.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/21/13
Work Order No: 13-06-1486
Preparation: EPA 3020A Total
Method: EPA 6020

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-06-1486-1-A**	**06/21/13 11:40**	**Aqueous**	**ICP/MS 03**	**06/25/13**	**06/25/13 20:03**	**130625L04A**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4,135**	**N/A**	**Aqueous**	**ICP/MS 03**	**06/25/13**	**06/25/13 19:19**	**130625L04A**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/21/13
Work Order No: 13-06-1486
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-1388-2	**Aqueous**	**ICP/MS 03**	**06/25/13**	**06/25/13**	**130625S04**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.004394	0.1000	0.1116	107	0.1116	107	73-127	0	0-11	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	06/21/13
100 West Walnut Street		Work Order No:	13-06-1486
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13-06-1388-2	**Aqueous**	**ICP/MS 03**	**06/25/13**	**06/25/13**	**130625S04**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.004394	0.1000	0.1057	101	75-125	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-1486
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,135	**Aqueous**	**ICP/MS 03**	**06/25/13**	**130625-L-04__139.icp**	**130625L04A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.1025	103	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

WORK ORDER #: 13-06-1486

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-A	Effluent	EPA 6020	EPA 3020A T	06/25/2013 20:03	598	ICP/MS 03	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841

Return to Contents

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-06-1486

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY
13-06-1486

Date 6-21-13

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 91124

TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]	Arsenic (6020)		
1	Effluent	6-21-13	1140	GW	1		X																	X		

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) - CCL	Date: 6-21-13	Time: 1545
Relinquished by: (Signature) - CCL	Received by: (Signature/Affiliation) Dannyle CCL	Date: 6/21/13	Time: 1545
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-06-1486

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 06/21/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.4 °C - 0.2 °C (CF) = 1.2 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Initial: BV

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: BV

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: MM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** MM

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** VC

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** VC

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-06-1762

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP - Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 07/2/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 13-06-1762

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 06/26/2013. They were assigned to Work Order 13-06-1762.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/26/13
Work Order No: 13-06-1762
Preparation: EPA 3005A Total
Method: EPA 6020

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-06-1762-1-A**	**06/26/13 12:45**	**Aqueous**	**ICP/MS 03**	**06/28/13**	**06/28/13 19:01**	**130628L02**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4,136**	**N/A**	**Aqueous**	**ICP/MS 03**	**06/28/13**	**06/28/13 18:37**	**130628L02**

Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.00100	1		mg/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 06/26/13
Work Order No: 13-06-1762
Preparation: EPA 3005A Total
Method: EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13-06-1699-1	**Aqueous**	**ICP/MS 03**	**06/28/13**	**06/28/13**	**130628S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.01044	0.1000	0.1170	107	0.1179	107	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received	06/26/13
100 West Walnut Street		Work Order No:	13-06-1762
Pasadena, CA 91124-0002		Preparation:	EPA 3005A Total
		Method:	EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13-06-1699-1	**Aqueous**	**ICP/MS 03**	**06/28/13**	**06/28/13**	**130628S02**

Parameter	SAMPLE_CONC	SPIKE_ADDED	PDS_CONC	PDS %REC	%REC CL	Qualifiers
Arsenic	0.01044	0.1000	0.1078	97	75-125	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-06-1762
Pasadena, CA 91124-0002		Preparation:	EPA 3005A Total
		Method:	EPA 6020

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
096-06-003-4,136	**Aqueous**	**ICP/MS 03**	**06/28/13**	**130628-L-02__075.icp**	**130628L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.1000	0.09917	99	80-120	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

WORK ORDER #: 13-06-1762

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-A	Effluent	EPA 6020	EPA 3005A T	06/28/2013 19:01	598	ICP/MS 03	1

Location	Description
1	7440 Lincoln Way, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-06-1762

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other CA office locations: Concord and San Luis Obispo
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
13-06-1762

Date 6-26-13
Page 1 of 1

LABORATORY CLIENT: Parsons
ADDRESS: 100 W. Walnut St.
CITY: Pasadena STATE: CA ZIP:
TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk
P.O. NO.: 747577-05000
PROJECT CONTACT: Mary Lucas / Cindy Zicker
SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic 6020			
1	Effluent	6-26-13	1245	GW	1		X																X			

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 6-26-13	Time: 1415
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle CEL	Date: 6/26/13	Time: 16:30
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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11/01/12 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-06- 1 7 6 2

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 06/26/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: AM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: SH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☐	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SH

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** RJ

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** RJ

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 13-04-1559

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons Government Services, Inc.

Client Project Name: DFSP - Norwalk

Attention: Mary Lucas
100 West Walnut Street
Pasadena, CA 91124-0002

Ranjit K. K. Clarke

Approved for release on 04/30/2013 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 13-04-1559

Calscience Environmental Laboratories, Inc.

Work Order Narrative

ACCREDITED IN ACCORDANCE WITH nelac

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/22/2013. They were assigned to Work Order 13-04-1559.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with an immediate holding time (HT </= 15 minutes --40CFR-136.3 Table II footnote 4), is considered a "field" test and reported samples results are not flagged unless the analysis is performed beyond 24 hours of the time of collection.

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Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontract Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA 8260B (M)
Units: ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1559-1-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 06:04**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Ethylbenzene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	10	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
o-Xylene	ND	5.0	1		Ethanol	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	47-156		1,2-Dichloroethane-d4	98	47-156	
Toluene-d8	99	47-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-2	**13-04-1559-2-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 06:54**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Ethylbenzene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	10	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
o-Xylene	ND	5.0	1		Ethanol	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	47-156		1,2-Dichloroethane-d4	97	47-156	
Toluene-d8	100	47-156					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-1	**13-04-1559-3-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 07:48**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Ethylbenzene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	10	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
o-Xylene	ND	5.0	1		Ethanol	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	47-156		1,2-Dichloroethane-d4	97	47-156	
Toluene-d8	98	47-156					

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA 8260B (M)
Units: ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-04-1559-4-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 09:25**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	8.0	1.6		Tert-Butyl Alcohol (TBA)	ND	16	1.6	
Toluene	ND	8.0	1.6		Diisopropyl Ether (DIPE)	ND	16	1.6	
Ethylbenzene	ND	8.0	1.6		Ethyl-t-Butyl Ether (ETBE)	ND	16	1.6	
p/m-Xylene	ND	16	1.6		Tert-Amyl-Methyl Ether (TAME)	ND	16	1.6	
o-Xylene	ND	8.0	1.6		Ethanol	ND	80	1.6	
Methyl-t-Butyl Ether (MTBE)	ND	16	1.6						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	110	47-156		1,2-Dichloroethane-d4	97	47-156	
Toluene-d8	99	47-156					

Method Blank	**099-13-041-1,280**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**04/23/13 16:52**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Ethylbenzene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	10	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
o-Xylene	ND	5.0	1		Ethanol	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	47-156		1,2-Dichloroethane-d4	103	47-156	
Toluene-d8	99	47-156					

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1559-1-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 06:04**	**130423L01**

Comment(s): -The method has been modified to use Tedlar Bags instead of Summa canisters and is not NY NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzyl Chloride	ND	1.5	1		c-1,2-Dichloroethene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		t-1,2-Dichloroethene	ND	0.50	1	
Bromoform	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Bromomethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
2-Butanone	2.4	1.5	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Carbon Disulfide	ND	10	1		2-Hexanone	ND	1.5	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Chlorobenzene	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chloroethane	ND	0.50	1		Styrene	ND	1.5	1	
Chloroform	0.98	0.50	1		Tetrachloroethene	ND	0.50	1	
Chloromethane	0.80	0.50	1		Trichloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
Dichlorodifluoromethane	0.89	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,1-Dichloroethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,2-Dichloroethane	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dichloropropane	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
1,3-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	98	47-137	
Toluene-d8	99	78-156					

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-2	**13-04-1559-2-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 06:54**	**130423L01**

Comment(s): -The method has been modified to use Tedlar Bags instead of Summa canisters and is not NY NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzyl Chloride	ND	1.5	1		c-1,2-Dichloroethene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		t-1,2-Dichloroethene	ND	0.50	1	
Bromoform	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Bromomethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
2-Butanone	1.5	1.5	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Carbon Disulfide	ND	10	1		2-Hexanone	ND	1.5	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Chlorobenzene	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chloroethane	ND	0.50	1		Styrene	ND	1.5	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chloromethane	0.69	0.50	1		Trichloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
Dichlorodifluoromethane	0.74	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,1-Dichloroethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,2-Dichloroethane	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dichloropropane	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
1,3-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	97	47-137	
Toluene-d8	100	78-156					

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: 04/22/13
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-1	**13-04-1559-3-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 07:48**	**130423L01**

Comment(s): -The method has been modified to use Tedlar Bags instead of Summa canisters and is not NY NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzyl Chloride	ND	1.5	1		c-1,2-Dichloroethene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		t-1,2-Dichloroethene	ND	0.50	1	
Bromoform	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Bromomethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
2-Butanone	2.4	1.5	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Carbon Disulfide	ND	10	1		2-Hexanone	ND	1.5	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Chlorobenzene	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chloroethane	ND	0.50	1		Styrene	ND	1.5	1	
Chloroform	0.50	0.50	1		Tetrachloroethene	ND	0.50	1	
Chloromethane	0.70	0.50	1		Trichloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
Dichlorodifluoromethane	0.80	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,1-Dichloroethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,2-Dichloroethane	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dichloropropane	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
1,3-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	57-129		1,2-Dichloroethane-d4	97	47-137	
Toluene-d8	98	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	04/22/13
100 West Walnut Street		Work Order No:	13-04-1559
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA TO-15M
		Units:	ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-04-1559-4-A**	**04/22/13 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/24/13 09:25**	**130423L01**

Comment(s): -The method has been modified to use Tedlar Bags instead of Summa canisters and is not NY NELAC accredited.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	80	1.6		c-1,3-Dichloropropene	ND	0.80	1.6	
Benzyl Chloride	ND	2.4	1.6		c-1,2-Dichloroethene	ND	0.80	1.6	
Bromodichloromethane	ND	0.80	1.6		t-1,2-Dichloroethene	ND	0.80	1.6	
Bromoform	ND	0.80	1.6		t-1,3-Dichloropropene	ND	1.6	1.6	
Bromomethane	ND	0.80	1.6		4-Ethyltoluene	ND	0.80	1.6	
2-Butanone	3.5	2.4	1.6		Hexachloro-1,3-Butadiene	ND	2.4	1.6	
Carbon Disulfide	ND	16	1.6		2-Hexanone	ND	2.4	1.6	
Carbon Tetrachloride	ND	0.80	1.6		Methylene Chloride	ND	8.0	1.6	
Chlorobenzene	ND	0.80	1.6		4-Methyl-2-Pentanone	ND	2.4	1.6	
Chloroethane	ND	0.80	1.6		Styrene	ND	2.4	1.6	
Chloroform	1.4	0.80	1.6		Tetrachloroethene	ND	0.80	1.6	
Chloromethane	1.4	0.80	1.6		Trichloroethene	ND	0.80	1.6	
Dibromochloromethane	ND	0.80	1.6		Trichlorofluoromethane	ND	1.6	1.6	
Dichlorodifluoromethane	1.6	0.80	1.6		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.4	1.6	
1,1-Dichloroethane	ND	0.80	1.6		1,1,1-Trichloroethane	ND	0.80	1.6	
1,1-Dichloroethene	ND	0.80	1.6		1,1,2-Trichloroethane	ND	0.80	1.6	
1,2-Dibromoethane	ND	0.80	1.6		1,3,5-Trimethylbenzene	ND	0.80	1.6	
Dichlorotetrafluoroethane	ND	3.2	1.6		1,1,2,2-Tetrachloroethane	ND	1.6	1.6	
1,2-Dichlorobenzene	ND	0.80	1.6		1,2,4-Trimethylbenzene	ND	2.4	1.6	
1,2-Dichloroethane	ND	0.80	1.6		1,2,4-Trichlorobenzene	ND	3.2	1.6	
1,2-Dichloropropane	ND	0.80	1.6		Vinyl Acetate	ND	3.2	1.6	
1,3-Dichlorobenzene	ND	0.80	1.6		Vinyl Chloride	ND	0.80	1.6	
1,4-Dichlorobenzene	ND	0.80	1.6						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	110	57-129		1,2-Dichloroethane-d4	97	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	04/22/13
100 West Walnut Street		Work Order No:	13-04-1559
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA TO-15M
		Units:	ppb (v/v)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-981-2,934**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**04/23/13 16:52**	**130423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzyl Chloride	ND	1.5	1		c-1,2-Dichloroethene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		t-1,2-Dichloroethene	ND	0.50	1	
Bromoform	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Bromomethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
2-Butanone	ND	1.5	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Carbon Disulfide	ND	10	1		2-Hexanone	ND	1.5	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Chlorobenzene	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chloroethane	ND	0.50	1		Styrene	ND	1.5	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chloromethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
Dichlorodifluoromethane	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,1-Dichloroethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,2-Dichloroethane	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dichloropropane	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
1,3-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	103	47-137	
Toluene-d8	99	78-156					

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7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons Government Services, Inc.		Date Received:	04/22/13
100 West Walnut Street		Work Order No:	13-04-1559
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA TO-3M

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**13-04-1559-1-A**	**04/22/13 00:00**	**Air**	**GC 13**	**N/A**	**04/23/13 17:22**	**130423L02**

Parameter	Result	RL	DF	Qual	Units
VOCs >/= C3 As Hexane	ND	3.0	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-2	**13-04-1559-2-A**	**04/22/13 00:00**	**Air**	**GC 13**	**N/A**	**04/23/13 17:35**	**130423L02**

Parameter	Result	RL	DF	Qual	Units
VOCs >/= C3 As Hexane	ND	3.0	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After GAC-1	**13-04-1559-3-A**	**04/22/13 00:00**	**Air**	**GC 13**	**N/A**	**04/23/13 17:45**	**130423L02**

Parameter	Result	RL	DF	Qual	Units
VOCs >/= C3 As Hexane	ND	3.0	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Influent	**13-04-1559-4-A**	**04/22/13 00:00**	**Air**	**GC 13**	**N/A**	**04/23/13 17:56**	**130423L02**

Parameter	Result	RL	DF	Qual	Units
VOCs >/= C3 As Hexane	5.4	3.0	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-713-1,711**	**N/A**	**Air**	**GC 13**	**N/A**	**04/23/13 09:48**	**130423L02**

Parameter	Result	RL	DF	Qual	Units
VOCs >/= C3 As Hexane	ND	3.0	1		ppm (v/v)

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.	Date Received: 04/22/13
100 West Walnut Street	Work Order No: 13-04-1559
Pasadena, CA 91124-0002	Preparation: N/A
	Method: EPA TO-3M

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
Influent	**Air**	**GC 13**	**N/A**	**04/23/13**	**130423D02**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
VOCs >/= C3 As Hexane	5.352	5.418	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1559
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA TO-3M

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-713-1,711	**Air**	**GC 13**	**04/23/13**	**13042305**	**130423L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
VOCs >/= C3 As Hexane	400.0	410.4	103	80-120	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA TO-15M

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-981-2,934	**Air**	**GC/MS AA**	**N/A**	**04/23/13**	**130423L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Acetone	25.00	27.01	108	27.23	109	50-150	33-167	1	0-35	
Benzene	25.00	25.19	101	25.68	103	60-156	44-172	2	0-40	
Benzyl Chloride	25.00	29.33	117	28.95	116	50-150	33-167	1	0-35	
Bromodichloromethane	25.00	27.93	112	28.17	113	50-150	33-167	1	0-35	
Bromoform	25.00	30.88	124	30.56	122	50-150	33-167	1	0-38	
Bromomethane	25.00	30.02	120	29.38	118	50-150	33-167	2	0-35	
2-Butanone	25.00	26.55	106	26.78	107	50-150	33-167	1	0-35	
Carbon Disulfide	25.00	25.22	101	25.25	101	50-150	33-167	0	0-35	
Carbon Tetrachloride	25.00	30.20	121	30.13	121	64-154	49-169	0	0-32	
Chlorobenzene	25.00	26.45	106	26.49	106	50-150	33-167	0	0-35	
Chloroethane	25.00	29.30	117	29.13	117	50-150	33-167	1	0-35	
Chloroform	25.00	26.20	105	25.99	104	50-150	33-167	1	0-35	
Chloromethane	25.00	28.46	114	28.63	115	50-150	33-167	1	0-35	
Dibromochloromethane	25.00	29.46	118	29.23	117	50-150	33-167	1	0-35	
Dichlorodifluoromethane	25.00	28.29	113	30.25	121	50-150	33-167	7	0-35	
Diisopropyl Ether (DIPE)	25.00	23.39	94	23.06	92	60-140	47-153	1	0-30	
1,1-Dichloroethane	25.00	26.63	107	26.73	107	50-150	33-167	0	0-35	
1,1-Dichloroethene	25.00	26.67	107	27.09	108	50-150	33-167	2	0-35	
1,2-Dibromoethane	25.00	27.65	111	27.71	111	54-144	39-159	0	0-36	
Dichlorotetrafluoroethane	25.00	29.41	118	28.87	115	50-150	33-167	2	0-35	
1,2-Dichlorobenzene	25.00	27.56	110	27.17	109	34-160	13-181	1	0-47	
1,2-Dichloroethane	25.00	28.52	114	28.72	115	69-153	55-167	1	0-35	
1,2-Dichloropropane	25.00	26.49	106	27.00	108	67-157	52-172	2	0-35	
1,3-Dichlorobenzene	25.00	27.94	112	27.87	111	50-150	33-167	0	0-35	
1,4-Dichlorobenzene	25.00	27.71	111	27.56	110	36-156	16-176	1	0-47	
c-1,3-Dichloropropene	25.00	27.27	109	27.84	111	61-157	45-173	2	0-35	
c-1,2-Dichloroethene	25.00	25.63	103	26.05	104	50-150	33-167	2	0-35	
t-1,2-Dichloroethene	25.00	25.89	104	26.10	104	50-150	33-167	1	0-35	
t-1,3-Dichloropropene	25.00	28.98	116	29.30	117	50-150	33-167	1	0-35	
Ethanol	100.0	95.14	95	93.91	94	60-140	47-153	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	25.00	26.46	106	26.66	107	60-140	47-153	1	0-30	
Ethylbenzene	25.00	26.57	106	26.66	107	52-154	35-171	0	0-38	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.
100 West Walnut Street
Pasadena, CA 91124-0002

Date Received: N/A
Work Order No: 13-04-1559
Preparation: N/A
Method: EPA TO-15M

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-981-2,934	**Air**	**GC/MS AA**	**N/A**	**04/23/13**	**130423L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
4-Ethyltoluene	25.00	27.03	108	26.83	107	50-150	33-167	1	0-35	
Hexachloro-1,3-Butadiene	25.00	25.47	102	24.97	100	50-150	33-167	2	0-35	
2-Hexanone	25.00	28.68	115	28.61	114	50-150	33-167	0	0-35	
Methyl-t-Butyl Ether (MTBE)	25.00	24.20	97	24.29	97	50-150	33-167	0	0-35	
Methylene Chloride	25.00	24.44	98	24.61	98	50-150	33-167	1	0-35	
4-Methyl-2-Pentanone	25.00	28.39	114	28.71	115	50-150	33-167	1	0-35	
o-Xylene	25.00	27.07	108	27.03	108	52-148	36-164	0	0-38	
p/m-Xylene	50.00	53.95	108	53.50	107	42-156	23-175	1	0-41	
Styrene	25.00	26.86	107	26.93	108	50-150	33-167	0	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	27.98	112	28.40	114	60-140	47-153	2	0-30	
Tert-Butyl Alcohol (TBA)	50.00	68.71	137	68.95	138	60-140	47-153	0	0-30	
Tetrachloroethene	25.00	27.85	111	27.82	111	56-152	40-168	0	0-40	
Toluene	25.00	25.62	102	25.73	103	56-146	41-161	0	0-43	
Trichloroethene	25.00	27.14	109	27.38	110	63-159	47-175	1	0-34	
Trichlorofluoromethane	25.00	28.49	114	28.27	113	50-150	33-167	1	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	25.00	27.75	111	27.67	111	50-150	33-167	0	0-35	
1,1,1-Trichloroethane	25.00	28.31	113	28.18	113	50-150	33-167	0	0-35	
1,1,2-Trichloroethane	25.00	26.29	105	26.81	107	65-149	51-163	2	0-37	
1,3,5-Trimethylbenzene	25.00	27.07	108	27.10	108	50-150	33-167	0	0-35	
1,1,2,2-Tetrachloroethane	25.00	26.33	105	26.32	105	50-150	33-167	0	0-35	
1,2,4-Trimethylbenzene	25.00	27.89	112	27.92	112	50-150	33-167	0	0-35	
1,2,4-Trichlorobenzene	25.00	25.43	102	25.45	102	50-150	33-167	0	0-35	
Vinyl Acetate	25.00	27.19	109	27.05	108	50-150	33-167	1	0-35	
Vinyl Chloride	25.00	29.32	117	28.77	115	45-177	23-199	2	0-36	

Total number of LCS compounds : 56
Total number of ME compounds : 0
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons Government Services, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	13-04-1559
Pasadena, CA 91124-0002		Preparation:	N/A
		Method:	EPA 8260B (M)

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-1,280	**Air**	**GC/MS AA**	**N/A**	**04/23/13**	**130423L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	25.00	25.19	101	25.68	103	60-156	44-172	2	0-40	
Toluene	25.00	25.62	102	25.73	103	56-146	41-161	0	0-43	
Ethylbenzene	25.00	26.57	106	26.66	107	52-154	35-171	0	0-38	
p/m-Xylene	50.00	53.95	108	53.50	107	42-156	23-175	1	0-41	
o-Xylene	25.00	27.07	108	27.03	108	52-148	36-164	0	0-38	
Methyl-t-Butyl Ether (MTBE)	25.00	24.20	97	24.29	97	45-147	28-164	0	0-25	
Tert-Butyl Alcohol (TBA)	50.00	68.71	137	68.95	138	60-140	47-153	0	0-35	
Diisopropyl Ether (DIPE)	25.00	23.39	94	23.06	92	60-140	47-153	1	0-35	
Ethyl-t-Butyl Ether (ETBE)	25.00	26.46	106	26.66	107	60-140	47-153	1	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	27.98	112	28.40	114	60-140	47-153	2	0-35	
Ethanol	100.0	95.14	95	93.91	94	47-137	32-152	1	0-35	
1,1-Difluoroethane	25.00	28.52	114	28.45	114	78-156	65-169	0	0-35	
Isopropanol	25.00	26.30	105	26.12	104	78-156	65-169	1	0-35	

Total number of LCS compounds : 13
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

ACCREDITED IN ACCORDANCE WITH nelac

WORK ORDER #: 13-04-1559

Lab Sample Number	Client Sample ID	Method	Extraction	Date/Time Analyzed	Chemist ID	Instrument	Analytical Location
1-A	Effluent	EPA TO-3M	N/A	04/23/2013 17:22	846	GC 13	2
1-A	Effluent	EPA TO-15M	N/A	04/24/2013 6:04	702	GC/MS AA	2
1-A	Effluent	EPA 8260B (M)	N/A	04/24/2013 6:04	702	GC/MS AA	2
2-A	After GAC-2	EPA TO-3M	N/A	04/23/2013 17:35	846	GC 13	2
2-A	After GAC-2	EPA TO-15M	N/A	04/24/2013 6:54	702	GC/MS AA	2
2-A	After GAC-2	EPA 8260B (M)	N/A	04/24/2013 6:54	702	GC/MS AA	2
3-A	After GAC-1	EPA TO-3M	N/A	04/23/2013 17:45	846	GC 13	2
3-A	After GAC-1	EPA TO-15M	N/A	04/24/2013 7:48	702	GC/MS AA	2
3-A	After GAC-1	EPA 8260B (M)	N/A	04/24/2013 7:48	702	GC/MS AA	2
4-A	Influent	EPA TO-3M	N/A	04/23/2013 17:56	846	GC 13	2
4-A	Influent	EPA TO-15M	N/A	04/24/2013 9:25	702	GC/MS AA	2
4-A	Influent	EPA 8260B (M)	N/A	04/24/2013 9:25	702	GC/MS AA	2

Location	Description
2	7445 Lampson Avenue, Garden Grove, CA 92841

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 13-04-1559

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

For any analysis identified as a "field" test with a holding time (HT) </= 15 minutes where the sample is received outside of HT, Calscience will adhere to its internal HT of 24 hours. In cases where sample analysis does not meet Calscience's internal HT, results will be appropriately qualified.

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY **13-04-1559**

Date 4-22-13

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LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP: 91124

TEL: 626-440-6032 E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk

P.O. NO.: 747577-05000

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15) + MTBE	Air - TPH (g) [TO-3]			
1	Effluent	4-22-13		Air	1																	X	X			
2	After GAC-2	↓		↓	1																	X	X			
3	After GAC-1				1																	X	X			
4	Influent				1																	X	X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Glenn Androsko	CEL	4-22-13	1718
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	COC	4/22/13	18:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 13-04-1559

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: PARSONS DATE: 04/13

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature ____.____ °C - 0.2 °C (CF) = ____.____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☑ Air ☐ Filter Initial: RM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☑ N/A Initial: RM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: HH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☑ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** HH

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:**

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

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