

August 15, 2014

Information & Technology Unit  
California Regional Water Quality Control Board, Los Angeles Region  
320 West Fourth Street, Suite 200  
Los Angeles, California 90013

Subject: **GROUNDWATER DISCHARGE MONITORING REPORT  
QUARTER 2, 2014**  
**NPDES No. CAG994004; Compliance File No. CI-7585**  
Defense Fuel Support Point, Norwalk  
15306 Norwalk Boulevard  
Norwalk, California

On behalf of The Defense Logistics Agency - Energy (DLA Energy), The Source Group, Inc. (SGI) presents this discharge monitoring report to summarize the National Pollutant Discharge Elimination System (NPDES) monitoring activities for Quarter 2, 2014 at Defense Fuel Support Point, Norwalk located at 15306 Norwalk Boulevard, in Norwalk, California (Site).

### ***SUMMARY OF REMEDIATION PROGRESS AND DISCHARGE VOLUMES***

Active remediation systems at the Site consist of a soil vapor extraction system (VES) and a groundwater extraction and treatment system (GWETS) for treatment of extracted soil vapors and groundwater to address the entire former tank farm, the former water tank, former truck fueling, and pump house areas during the subject reporting period.

The GWETS consists of five vertical extraction wells (four 6-inch diameter wells and one 4-inch diameter well), three bag filter vessels, two MYCELX oil separator vessels, three granular activated carbon (GAC) vessels, and two ion exchange vessels. Four wells (GW-2, GW-13, GW-15, and GW-16) were in operation during this reporting period. The treated groundwater was discharged in accordance with NPDES Permit No. CAG994004, CI-7585.

The GWETS discharge volumes and field notes for the reporting period are summarized in Tables 2A, 2B, and 2C. Periodic site visits were conducted to assess and optimize system operation and record operational data. During Quarter 2, 2014, 812,185 gallons of groundwater were processed and discharged. Total hydrocarbons removed via groundwater treatment during the subject reporting period is 10.17 pounds.

There were no changes in the operation of the facility that have or would change the character, location, or volume of the groundwater discharge.

### **SUMMARY OF COMPLIANCE RESULTS**

Representative samples of treated groundwater were collected from the system effluent and analyzed for compounds as required by the Monitoring and Reporting Program (MRP).

Representative sample results indicate concentrations were below detection limits or did not exceed permit required discharge levels. The sample dates and summary of test results are provided in Table 1. Laboratory analytical reports and chain-of-custody documents are included in Appendix A.

Compliance samples were submitted to a laboratory certified for analyses of requested methods by the California Department of Public Health Environmental Laboratory Approval Program (ELAP). The laboratory analyzed samples in batches with other samples of similar matrix and analyzed quality control samples with each batch to assess method precision and accuracy. Duplicate sample or matrix spike/matrix spike duplicate sample pairs were analyzed to assess method precision. Matrix spike sample results also demonstrate method accuracy. Method blank and laboratory control samples are analyzed to assess potential laboratory contamination and method accuracy without potential matrix interferences, respectively.

### **SUMMARY OF NON-COMPLIANCE**

The GWETS operated in compliance with NPDES No. CAG994004, CI-7585 during this reporting period.

### **LABORATORY CERTIFICATION**

All analyses were conducted at a laboratory certified for such analyses by the California Department of Public Health or approved by the Executive Officer and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring and Reporting Program. The laboratory's quality control data is included in the laboratory analytical reports provided in Appendix A. A copy of the laboratory ELAP certification is provided in Appendix B.

### **REPORT CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Sincerely,



Aaron Disman, P.E.  
Project Engineer



Neil F. Irish, P.G. 5484  
Principal Geologist

Attachments and Distribution on Following Page.

Attachments:

Table 1 – Summary of Effluent Groundwater Analytical Sampling Results – 2<sup>nd</sup> Quarter 2014

Table 2A – Groundwater Extraction and Treatment System Summary of Operations - April

Table 2B – Groundwater Extraction and Treatment System Summary of Operations - May

Table 2C – Groundwater Extraction and Treatment System Summary of Operations - June

Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents

Appendix B – Laboratory ELAP Certification

cc: Mr. Paul Cho, LARWQCB

Mr. Everett Bole, DLA-E

Mr. Stuart Strum, DLA-E

Maj. Todd J. Morin, DLA-E

Ms. Adriana Figueroa, City of Norwalk

Mr. Mike Egan, City of Norwalk

Ms. Phuong Ly, Water Replenishment District

Mr. Everett Ferguson, Water Replenishment District

Mr. Charles Emig, City of Cerritos

Ms. Evelyn Herrera, Office of Congresswoman Grace Napolitano

Mr. Jon Wreschinsky, March ARB

Ms. Angelina Mancillas, Office of Congresswoman Linda T. Sánchez

Mr. Luis Gonzalez, Office of State Senator Ron Calderon

Mr. Norman Dupont, Richards Watson Gershon

Mr. Gary Lynch, Park Water Company

Mr. Walter Scherer, March ARB

Mr. Michael T. Wilson, Air Force Real Property Agency

Ms. Minxia Dong, Norwalk Regional Library

Mr. Steve Defibaugh, KMED

Mr. Mark Wuttig, CH2M HILL

Mr. Dan Jablonski, CH2M HILL

Ms. Lorena Sierra, John Dolland Elementary School

Mr. Marcos Alamillo, Office of Assemblymember Christina Garcia

Ms. Mary Jane McIntosh, RAB Community Member

Dr. Eugene Garcia, RAB Community Member

Ms. Tracy Winkle, RAB Community Member

## TABLES

**TABLE 1**  
**Summary of Effluent Groundwater Analytical Sampling Results - 2nd Quarter 2014**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sampling Frequency			Monthly								Quarterly								Annually		
Laboratory Analysis Methods			--	SM 4500 H+B	--	EPA 8015B (M)	EPA 8015B (M)	EPA 8260B	EPA 8260B	EPA 6020	SM 5520 B	EPA 6020	SM 2130 B	SM 4500 S2-D	SM 4500-CI F	SM 2540 D	SM 2540 F	SM 5540 C	EPA 420.1	SM 5210 B	
Daily Discharge Limitation			--	--	--	100 µg/L	5 µg/L	12 µg/L	10 µg/L	15 mg/L	30 µg/L	150 NTU	1.0 mg/L	0.1 mg/L	75 mg/L	0.3 mL/L	0.5 mg/L	1.0 mg/L	30 mg/L	--	
Monthly Discharge Limitation			--	--	--	--	--	--	--	10 mg/L	15 µg/L	50 NTU	--	--	50 mg/L	0.1 mL/L	--	--	20 mg/L	--	
Sample Date	Notes	GWETS Wells On Line	Average Flow Rate	pH	Temp-erature	TPHd	TPHg	MTBE	TBA	Arsenic	Oil & Grease	Copper	Turbidity	Sulfides	Residual Chlorine	Total Suspended Solids	Settleable Solids	MBAS	Phenols	BOD <sub>5</sub> 20°C	Acute Toxicity
			(gpd)	pH units	°F	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(NTU)	(mg/L)	(mg/L)	(mg/L)	(mL/L/hr)	(mg/L)	(mg/L)	(mg/L)	(%)
04/23/14		--	--	7.00	--	<100	<100	<0.50	<10	<b>2.22</b>	<1.0	--	<b>0.62</b>	--	--	--	--	--	--	--	--
04/30/14		--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--
05/02/14		--	--	--	--	--	--	--	--	<b>3.83</b>	--	--	--	--	--	--	--	--	--	--	--
05/16/14		--	--	--	--	<98	<100	<0.50	<b>4.8</b>	<1.00	<1.0	<b>1.48</b>	<b>0.10</b>	<0.050	<0.10	<b>2.4</b>	<0.10	<0.10	<0.10	<b>1.7</b>	--
05/29/14	1	--	--	--	--	--	--	<0.50	<10	--	--	--	--	--	--	--	--	--	--	--	--

**Legend / Notes:**

Data collected prior to July 2014 not verified for completeness nor accuracy.      1 = GWETS manually shut down.  
 GWETS = Groundwater extraction and treatment system  
 TPHd = Total petroleum hydrocarbons as diesel  
 TPHg = Total petroleum hydrocarbons as gasoline  
 MTBE = Methyl tertiary-butyl ether  
 TBA = tertiary-Butyl alcohol  
 MBAS = Methylene blue active substances  
 BOD = Biochemical oxygen demand  
 gpd = Gallons per day  
 µg/L = Micrograms per liter  
 mg/L = Milligrams per liter  
 NTU = Nephelometric Turbidity Units  
 <1 = Not detected at or above the Method Reporting Limit (MRL) shown.  
 -- = Not available or not analyzed

**TABLE 2a**  
**Groundwater Extraction and Treatment System Summary of Operations - April**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
04/01/14	*		2,895,897	1,844,900	552,850	5,965,439	6,518,289	4,740,797	69,809,124	--	9,912
04/02/14	Technician		2,904,789	1,850,510	557,689	5,971,133	6,528,822	4,755,299	69,829,940	--	9,913
04/03/14	*		2,914,049	1,856,344	562,343	5,976,896	6,539,239	4,770,393	69,850,770	--	9,913
04/04/14	Technician	1	2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/05/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/06/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/07/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/08/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/09/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/10/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/11/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/12/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/13/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/14/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/15/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/16/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/17/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/18/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/19/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/20/14	Off line		2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/21/14	Technician	2	2,922,344	1,861,571	566,512	5,982,059	6,548,571	4,783,915	69,869,430	--	9,913
04/22/14	Technician	3	2,924,506	1,862,988	567,582	5,982,089	6,549,671	4,787,494	69,874,045	--	9,913
04/23/14	Technician	4	2,932,101	1,868,577	571,097	5,982,089	6,553,186	4,800,678	69,885,215	--	9,913
04/24/14	*		2,940,402	1,874,385	576,030	5,987,229	6,563,258	4,814,788	69,906,164	--	9,914
04/25/14	Technician		2,949,828	1,880,980	581,630	5,993,065	6,574,695	4,830,808	69,929,950	--	9,914
04/26/14	*		2,958,891	1,886,618	586,334	5,998,518	6,584,851	4,845,509	69,951,274	--	9,914
04/27/14	*		2,967,954	1,892,257	591,037	6,003,970	6,595,007	4,860,211	69,972,599	--	9,914
04/28/14	Technician		2,977,615	1,898,267	596,051	6,009,783	6,605,834	4,875,882	69,995,330	--	9,915
04/29/14	*		2,986,651	1,903,392	600,392	6,015,181	6,615,573	4,890,044	70,015,112	--	9,915
04/30/14	Technician	4	2,995,060	1,908,162	604,432	6,020,205	6,624,637	4,903,222	70,033,520	--	9,915

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	245,505	1,950,806	245,505	--	--	2,196,311	70,033,520

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	3.07	3.07	9,915.11

$$Liquid\text{-Phase DRO Mass [lb]} = \left( Conc. \left[ \frac{\mu g}{L} \right] \right) \cdot \left( \frac{3.785 L}{gal} \right) \cdot \left( \frac{1 g}{1,000,000 \mu g} \right) \cdot \left( \frac{1 lb}{453.59 g} \right) \cdot (Volume [gal])$$

**Legend / Notes:**

- 1 = GWETS manually shut down.
- 2 = GWETS operated temporarily.
- 3 = GWETS restarted.
- 4 = Collected effluent GWETS sample for laboratory analysis.

GWETS = Groundwater extraction and treatment system      lb = Pounds  
 ug/L - Micrograms per liter      DRO = Diesel range organics  
 A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on:  
 02/07/14.  
 -- = Not applicable  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

**TABLE 2b**  
**Groundwater Extraction and Treatment System Summary of Operations - May**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
05/01/14	*		3,004,067	1,914,091	609,169	6,025,592	6,634,761	4,918,158	70,054,456	--	9,915
05/02/14	Technician	1	3,012,762	1,919,814	613,742	6,030,792	6,644,534	4,932,576	70,074,665	--	9,916
05/03/14	*		3,021,952	1,925,825	618,173	6,036,240	6,654,413	4,947,777	70,094,725	--	9,916
05/04/14	*		3,031,142	1,931,835	622,604	6,041,688	6,664,293	4,962,977	70,114,786	--	9,916
05/05/14	Technician		3,039,056	1,937,011	626,420	6,046,380	6,672,800	4,976,067	70,132,060	--	9,916
05/06/14	Technician		3,047,937	1,943,484	630,766	6,051,819	6,682,584	4,991,421	70,152,600	--	9,917
05/07/14	Technician		3,055,963	1,949,392	634,991	6,056,941	6,691,932	5,005,355	70,172,150	--	9,917
05/08/14	*		3,065,044	1,956,074	640,281	6,062,455	6,702,736	5,021,118	70,193,233	--	9,917
05/09/14	Technician		3,072,656	1,961,674	644,715	6,067,077	6,711,792	5,034,330	70,210,905	--	9,917
05/10/14	*		3,081,703	1,968,309	649,596	6,072,453	6,722,048	5,050,012	70,231,487	--	9,918
05/11/14	*		3,090,750	1,974,944	654,476	6,077,829	6,732,305	5,065,694	70,252,069	--	9,918
05/12/14	Technician		3,099,677	1,981,492	659,293	6,083,135	6,742,427	5,081,169	70,272,380	--	9,918
05/13/14	*		3,103,839	1,984,373	661,741	6,085,817	6,747,558	5,088,212	70,280,808	--	9,918
05/14/14	Technician		3,108,151	1,987,358	664,278	6,088,597	6,752,874	5,095,509	70,289,540	--	9,918
05/15/14	*		3,115,748	1,992,767	668,840	6,093,535	6,762,375	5,108,514	70,308,132	--	9,919
05/16/14	Technician	1	3,124,136	1,998,739	673,877	6,098,988	6,772,865	5,122,875	70,328,660	--	9,919
05/17/14	*		3,132,523	2,004,793	678,966	6,104,484	6,783,450	5,137,315	70,348,110	--	9,919
05/18/14	*		3,140,910	2,010,846	684,055	6,109,980	6,794,035	5,151,756	70,367,560	--	9,919
05/19/14	Technician		3,147,695	2,015,744	688,172	6,114,427	6,802,599	5,163,439	70,383,295	--	9,919
05/20/14	Technician		3,157,266	2,022,649	693,676	6,120,430	6,814,106	5,179,915	70,405,660	--	9,920
05/21/14	*		3,165,399	2,028,451	698,540	6,125,790	6,824,331	5,193,849	70,424,841	--	9,920
05/22/14	Technician		3,172,594	2,033,584	702,844	6,130,533	6,833,377	5,206,178	70,441,810	--	9,920
05/23/14	*		3,180,945	2,039,480	707,603	6,135,904	6,843,507	5,220,424	70,461,184	--	9,920
05/24/14	*		3,189,295	2,045,376	712,362	6,141,275	6,853,636	5,234,671	70,480,557	--	9,921
05/25/14	*		3,197,646	2,051,272	717,121	6,146,645	6,863,766	5,248,918	70,499,931	--	9,921
05/26/14	*		3,205,997	2,057,168	721,880	6,152,016	6,873,896	5,263,165	70,519,304	--	9,921
05/27/14	Technician		3,215,107	2,063,601	727,072	6,157,876	6,884,947	5,278,708	70,540,440	--	9,921
05/28/14	*		3,223,470	2,069,333	731,956	6,163,326	6,895,282	5,292,803	70,559,690	--	9,922
05/29/14	Technician	1,2,3	3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
05/30/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
05/31/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	May	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	548,280	1,950,806	793,785	--	--	2,744,591	70,581,800

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	6.86	9.94	9,921.97

$$Liquid\text{-Phase DRO Mass [lb]} = \left( Conc. \left[ \frac{\mu\text{g}}{L} \right] \right) \cdot \left( \frac{3.785 L}{gal} \right) \cdot \left( \frac{1 g}{1,000,000 \mu\text{g}} \right) \cdot \left( \frac{1 lb}{453.59 g} \right) \cdot (Volume [gal])$$

**Legend / Notes:**

- 1 = Collected effluent GWETS sample for laboratory analysis.
- 2 = Collected surge tank and pre MX-21 GWETS samples for laboratory analysis.
- 3 = GWETS manually shut down.

GWETS = Groundwater extraction and treatment system      lb = Pounds  
 ug/L - Micrograms per liter      DRO = Diesel range organics  
 A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on:  
 02/07/14.  
 -- = Not applicable  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16



**TABLE 2c**  
**Groundwater Extraction and Treatment System Summary of Operations - June**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from the North-East Area (gallons)	Groundwater Extracted from the North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed (lb)
06/01/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/02/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/03/14	Off line		3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/04/14	Technician	1	3,233,076	2,075,918	737,566	6,169,588	6,907,153	5,308,993	70,581,800	--	9,922
06/05/14	Technician	2	3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/06/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/07/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/08/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/09/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/10/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/11/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/12/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/13/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/14/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/15/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/16/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/17/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/18/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/19/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/20/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/21/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/22/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/23/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/24/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/25/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/26/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/27/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/28/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/29/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922
06/30/14	Off line		3,234,516	2,087,551	743,492	6,175,410	6,918,902	5,322,066	70,600,200	--	9,922

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2014	Quarter 2, 2014	Quarter 3, 2014	Quarter 4, 2014	2014	April 1996 to Date
Volume	18,400	1,950,806	812,185	--	--	2,762,991	70,600,200

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.23	10.17	9,922.20

$$Liquid\text{-Phase DRO Mass [lb]} = \left( Conc. \left[ \frac{\mu\text{g}}{L} \right] \right) \cdot \left( \frac{3.785 L}{gal} \right) \cdot \left( \frac{1 g}{1,000,000 \mu\text{g}} \right) \cdot \left( \frac{1 lb}{453.59 g} \right) \cdot (Volume [gal])$$

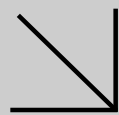
**Legend / Notes:**

- 1 = GWETS restarted.
- 2 = GWETS manually shut down.

GWETS = Groundwater extraction and treatment system      lb = Pounds  
 ug/L - Micrograms per liter      DRO = Diesel range organics  
 A = Mass removal is calculated using analytical laboratory results for DRO from samples collected on:  
 02/07/14.  
 -- = Not applicable  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.

Groundwater extraction wells on line this month: GW-13, GW-15, GW-16

**APPENDIX A**  
Laboratory Analytical Results and Chain-of-Custody Documentation



# CALSCIENCE

**WORK ORDER NUMBER: 14-04-1672**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

## Analytical Report For

**Client:** Parsons Government Services, Inc.

**Client Project Name:** DFSP Norwalk - Monthly

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

*Ranjit K. Clarke*

Approved for release on 04/30/2014 by:  
Ranjit Clarke  
Project Manager

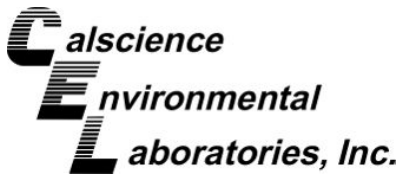
ResultLink ▶

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.

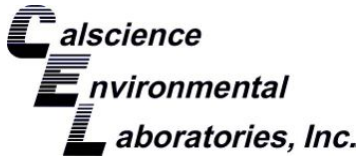




# Contents

Client Project Name: DFSP Norwalk - Monthly  
Work Order Number: 14-04-1672

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 Combined Inorganic Tests. . . . .	5
4	Quality Control Sample Data. . . . .	6
	4.1 Sample Duplicate. . . . .	6
	4.2 LCS/LCSD. . . . .	8
5	Sample Analysis Summary. . . . .	9
6	Glossary of Terms and Qualifiers. . . . .	10
7	Chain of Custody/Sample Receipt Form. . . . .	11



## Work Order Narrative

---

Work Order: 14-04-1672

Page 1 of 1

---

### **Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 04/23/14. They were assigned to Work Order 14-04-1672.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

### **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:**

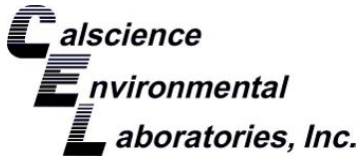
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

### **Subcontractor Information:**

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

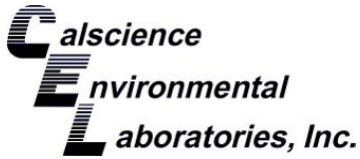


## Sample Summary

Client: Parsons Government Services, Inc.	Work Order: 14-04-1672
100 West Walnut Street	Project Name: DFSP Norwalk - Monthly
Pasadena, CA 91124-0002	PO Number:
	Date/Time Received: 04/23/14 12:55
	Number of Containers: 2

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-04-1672-1	04/23/14 10:00	2	Aqueous



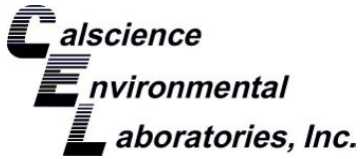
## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002  
 Project: DFSP Norwalk - Monthly

Date Received: 04/23/14  
 Work Order: 14-04-1672

Page 1 of 1

Client Sample Number		Lab Sample Number			Date/Time Collected		Matrix	
<b>Effluent</b>		<b>14-04-1672-1</b>			<b>04/23/14 10:00</b>		<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Turbidity	0.62	0.050	1.00		NTU	N/A	04/23/14	SM 2130 B
pH	7.00	0.01	1.00	BV,BU	pH units	N/A	04/23/14	SM 4500 H+ B
Oil and Grease	ND	1.0	1.00		mg/L	04/29/14	04/29/14	SM 5520 B
<b>Method Blank</b>					<b>N/A</b>		<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Oil and Grease	ND	1.0	1.00		mg/L	04/29/14	04/29/14	SM 5520 B



## Quality Control - Sample Duplicate

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

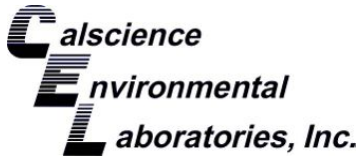
Date Received: 04/23/14  
Work Order: 14-04-1672  
Preparation: N/A  
Method: SM 2130 B

Project: DFSP Norwalk - Monthly

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	Sample	Aqueous	TUR 3	N/A	04/23/14 18:30	E0423TURD1
Effluent	Sample Duplicate	Aqueous	TUR 3	N/A	04/23/14 18:30	E0423TURD1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Turbidity		0.6200	0.6300	2	0-25	





## Quality Control - Sample Duplicate

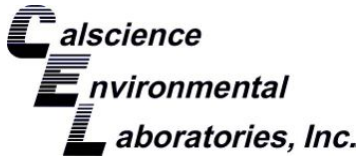
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 04/23/14  
Work Order: 14-04-1672  
Preparation: N/A  
Method: SM 4500 H+ B

Project: DFSP Norwalk - Monthly

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
Effluent	Sample	Aqueous	PH 1	N/A	04/23/14 19:15	E0423PHD1
Effluent	Sample Duplicate	Aqueous	PH 1	N/A	04/23/14 19:15	E0423PHD1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
pH		7.000	7.020	0	0-25	



## Quality Control - LCS/LCSD

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

Date Received: 04/23/14  
Work Order: 14-04-1672  
Preparation: N/A  
Method: SM 5520 B

Project: DFSP Norwalk - Monthly

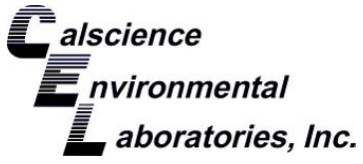
Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2964	LCS	Aqueous	N/A	04/29/14	04/29/14 16:00	E0429OGL1
099-05-081-2964	LCSD	Aqueous	N/A	04/29/14	04/29/14 16:00	E0429OGL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.00	38.50	96	39.20	98	80-120	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 14-04-1672

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
SM 2130 B	N/A	688	TUR 3	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 5520 B	N/A	691	N/A	1

  
Return to Contents

## Glossary of Terms and Qualifiers

Work Order: 14-04-1672

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq$  15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.



**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: T&E

DATE: 04/23/14

TEMPERATURE: Thermometer ID: 803 (Criteria: 11°C - 13°C, not frozen except sediment/soil)

Temperature 2.2 °C - 2.3 °C (CF) = 2.9 °C  Blank  Sample

Sample(s) outside temperature criteria (P&APs contacted by: \_\_\_\_\_)

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

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

Ambient Temperature:  Air  Filter

Checked by: FT

**CUSTODY SEALS INTACT:**

Code  \_\_\_\_\_  No (Not Intact)  Not Present  NA Checked by: FT

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Checked by: FT

**SAMPLE CONDITION:**

	Yes	No	NA
Chain-Of-Custody (DOC) document(s) received with samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DOC document(s) received complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, meter, and/or # of containers logged in based on sample labels			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No lab/line relinquished			
Sampler's name indicated on DOC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with DOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input checked="" type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on CDC or sample container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ccCGU  8ccCGU  16ccCGU  Bore (\_\_\_\_)  ExCore®  TeraCore®  \_\_\_\_\_

Aqueous:  VOA  VOB  VOA<sub>2</sub>  25AGB  25AGBh  25AGBp  1AGB  1AGBna  1AGBe

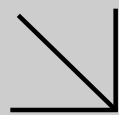
500AGB  500AGU  500AGUa  250AGB  2500GB  2500GBa  1PB  1PBna  250PB

250PB  250PBa  125PB  125PBna  100FU  100P<sub>2</sub>na  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedia®  Canister Other:  \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: FT

Container:  Can & Lid  Pad  2oz J  8oz Bottle  2oz Freezer Bag  Envelope Reviewed by: FT

Preservative:  HCL  HNO<sub>3</sub>  NaOH  Na<sub>2</sub>CO<sub>3</sub>  Na<sub>2</sub>SO<sub>4</sub>  H<sub>2</sub>SO<sub>4</sub>  H<sub>2</sub>O<sub>2</sub>  H<sub>2</sub>PO<sub>4</sub>  H<sub>2</sub>PO<sub>3</sub>  H<sub>2</sub>PO<sub>2</sub>  H<sub>2</sub>PO<sub>1</sub>  H<sub>2</sub>PO<sub>0</sub>  H<sub>2</sub>PO<sub>-1</sub>  H<sub>2</sub>PO<sub>-2</sub>  H<sub>2</sub>PO<sub>-3</sub>  H<sub>2</sub>PO<sub>-4</sub>  H<sub>2</sub>PO<sub>-5</sub>  H<sub>2</sub>PO<sub>-6</sub>  H<sub>2</sub>PO<sub>-7</sub>  H<sub>2</sub>PO<sub>-8</sub>  H<sub>2</sub>PO<sub>-9</sub>  H<sub>2</sub>PO<sub>-10</sub>  H<sub>2</sub>PO<sub>-11</sub>  H<sub>2</sub>PO<sub>-12</sub>  H<sub>2</sub>PO<sub>-13</sub>  H<sub>2</sub>PO<sub>-14</sub>  H<sub>2</sub>PO<sub>-15</sub>  H<sub>2</sub>PO<sub>-16</sub>  H<sub>2</sub>PO<sub>-17</sub>  H<sub>2</sub>PO<sub>-18</sub>  H<sub>2</sub>PO<sub>-19</sub>  H<sub>2</sub>PO<sub>-20</sub>  H<sub>2</sub>PO<sub>-21</sub>  H<sub>2</sub>PO<sub>-22</sub>  H<sub>2</sub>PO<sub>-23</sub>  H<sub>2</sub>PO<sub>-24</sub>  H<sub>2</sub>PO<sub>-25</sub>  H<sub>2</sub>PO<sub>-26</sub>  H<sub>2</sub>PO<sub>-27</sub>  H<sub>2</sub>PO<sub>-28</sub>  H<sub>2</sub>PO<sub>-29</sub>  H<sub>2</sub>PO<sub>-30</sub>  H<sub>2</sub>PO<sub>-31</sub>  H<sub>2</sub>PO<sub>-32</sub>  H<sub>2</sub>PO<sub>-33</sub>  H<sub>2</sub>PO<sub>-34</sub>  H<sub>2</sub>PO<sub>-35</sub>  H<sub>2</sub>PO<sub>-36</sub>  H<sub>2</sub>PO<sub>-37</sub>  H<sub>2</sub>PO<sub>-38</sub>  H<sub>2</sub>PO<sub>-39</sub>  H<sub>2</sub>PO<sub>-40</sub>  H<sub>2</sub>PO<sub>-41</sub>  H<sub>2</sub>PO<sub>-42</sub>  H<sub>2</sub>PO<sub>-43</sub>  H<sub>2</sub>PO<sub>-44</sub>  H<sub>2</sub>PO<sub>-45</sub>  H<sub>2</sub>PO<sub>-46</sub>  H<sub>2</sub>PO<sub>-47</sub>  H<sub>2</sub>PO<sub>-48</sub>  H<sub>2</sub>PO<sub>-49</sub>  H<sub>2</sub>PO<sub>-50</sub>  H<sub>2</sub>PO<sub>-51</sub>  H<sub>2</sub>PO<sub>-52</sub>  H<sub>2</sub>PO<sub>-53</sub>  H<sub>2</sub>PO<sub>-54</sub>  H<sub>2</sub>PO<sub>-55</sub>  H<sub>2</sub>PO<sub>-56</sub>  H<sub>2</sub>PO<sub>-57</sub>  H<sub>2</sub>PO<sub>-58</sub>  H<sub>2</sub>PO<sub>-59</sub>  H<sub>2</sub>PO<sub>-60</sub>  H<sub>2</sub>PO<sub>-61</sub>  H<sub>2</sub>PO<sub>-62</sub>  H<sub>2</sub>PO<sub>-63</sub>  H<sub>2</sub>PO<sub>-64</sub>  H<sub>2</sub>PO<sub>-65</sub>  H<sub>2</sub>PO<sub>-66</sub>  H<sub>2</sub>PO<sub>-67</sub>  H<sub>2</sub>PO<sub>-68</sub>  H<sub>2</sub>PO<sub>-69</sub>  H<sub>2</sub>PO<sub>-70</sub>  H<sub>2</sub>PO<sub>-71</sub>  H<sub>2</sub>PO<sub>-72</sub>  H<sub>2</sub>PO<sub>-73</sub>  H<sub>2</sub>PO<sub>-74</sub>  H<sub>2</sub>PO<sub>-75</sub>  H<sub>2</sub>PO<sub>-76</sub>  H<sub>2</sub>PO<sub>-77</sub>  H<sub>2</sub>PO<sub>-78</sub>  H<sub>2</sub>PO<sub>-79</sub>  H<sub>2</sub>PO<sub>-80</sub>  H<sub>2</sub>PO<sub>-81</sub>  H<sub>2</sub>PO<sub>-82</sub>  H<sub>2</sub>PO<sub>-83</sub>  H<sub>2</sub>PO<sub>-84</sub>  H<sub>2</sub>PO<sub>-85</sub>  H<sub>2</sub>PO<sub>-86</sub>  H<sub>2</sub>PO<sub>-87</sub>  H<sub>2</sub>PO<sub>-88</sub>  H<sub>2</sub>PO<sub>-89</sub>  H<sub>2</sub>PO<sub>-90</sub>  H<sub>2</sub>PO<sub>-91</sub>  H<sub>2</sub>PO<sub>-92</sub>  H<sub>2</sub>PO<sub>-93</sub>  H<sub>2</sub>PO<sub>-94</sub>  H<sub>2</sub>PO<sub>-95</sub>  H<sub>2</sub>PO<sub>-96</sub>  H<sub>2</sub>PO<sub>-97</sub>  H<sub>2</sub>PO<sub>-98</sub>  H<sub>2</sub>PO<sub>-99</sub>  H<sub>2</sub>PO<sub>-100</sub>  H<sub>2</sub>PO<sub>-101</sub>  H<sub>2</sub>PO<sub>-102</sub>  H<sub>2</sub>PO<sub>-103</sub>  H<sub>2</sub>PO<sub>-104</sub>  H<sub>2</sub>PO<sub>-105</sub>  H<sub>2</sub>PO<sub>-106</sub>  H<sub>2</sub>PO<sub>-107</sub>  H<sub>2</sub>PO<sub>-108</sub>  H<sub>2</sub>PO<sub>-109</sub>  H<sub>2</sub>PO<sub>-110</sub>  H<sub>2</sub>PO<sub>-111</sub>  H<sub>2</sub>PO<sub>-112</sub>  H<sub>2</sub>PO<sub>-113</sub>  H<sub>2</sub>PO<sub>-114</sub>  H<sub>2</sub>PO<sub>-115</sub>  H<sub>2</sub>PO<sub>-116</sub>  H<sub>2</sub>PO<sub>-117</sub>  H<sub>2</sub>PO<sub>-118</sub>  H<sub>2</sub>PO<sub>-119</sub>  H<sub>2</sub>PO<sub>-120</sub>  H<sub>2</sub>PO<sub>-121</sub>  H<sub>2</sub>PO<sub>-122</sub>  H<sub>2</sub>PO<sub>-123</sub>  H<sub>2</sub>PO<sub>-124</sub>  H<sub>2</sub>PO<sub>-125</sub>  H<sub>2</sub>PO<sub>-126</sub>  H<sub>2</sub>PO<sub>-127</sub>  H<sub>2</sub>PO<sub>-128</sub>  H<sub>2</sub>PO<sub>-129</sub>  H<sub>2</sub>PO<sub>-130</sub>  H<sub>2</sub>PO<sub>-131</sub>  H<sub>2</sub>PO<sub>-132</sub>  H<sub>2</sub>PO<sub>-133</sub>  H<sub>2</sub>PO<sub>-134</sub>  H<sub>2</sub>PO<sub>-135</sub>  H<sub>2</sub>PO<sub>-136</sub>  H<sub>2</sub>PO<sub>-137</sub>  H<sub>2</sub>PO<sub>-138</sub>  H<sub>2</sub>PO<sub>-139</sub>  H<sub>2</sub>PO<sub>-140</sub>  H<sub>2</sub>PO<sub>-141</sub>  H<sub>2</sub>PO<sub>-142</sub>  H<sub>2</sub>PO<sub>-143</sub>  H<sub>2</sub>PO<sub>-144</sub>  H<sub>2</sub>PO<sub>-145</sub>  H<sub>2</sub>PO<sub>-146</sub>  H<sub>2</sub>PO<sub>-147</sub>  H<sub>2</sub>PO<sub>-148</sub>  H<sub>2</sub>PO<sub>-149</sub>  H<sub>2</sub>PO<sub>-150</sub>  H<sub>2</sub>PO<sub>-151</sub>  H<sub>2</sub>PO<sub>-152</sub>  H<sub>2</sub>PO<sub>-153</sub>  H<sub>2</sub>PO<sub>-154</sub>  H<sub>2</sub>PO<sub>-155</sub>  H<sub>2</sub>PO<sub>-156</sub>  H<sub>2</sub>PO<sub>-157</sub>  H<sub>2</sub>PO<sub>-158</sub>  H<sub>2</sub>PO<sub>-159</sub>  H<sub>2</sub>PO<sub>-160</sub>  H<sub>2</sub>PO<sub>-161</sub>  H<sub>2</sub>PO<sub>-162</sub>  H<sub>2</sub>PO<sub>-163</sub>  H<sub>2</sub>PO<sub>-164</sub>  H<sub>2</sub>PO<sub>-165</sub>  H<sub>2</sub>PO<sub>-166</sub>  H<sub>2</sub>PO<sub>-167</sub>  H<sub>2</sub>PO<sub>-168</sub>  H<sub>2</sub>PO<sub>-169</sub>  H<sub>2</sub>PO<sub>-170</sub>  H<sub>2</sub>PO<sub>-171</sub>  H<sub>2</sub>PO<sub>-172</sub>  H<sub>2</sub>PO<sub>-173</sub>  H<sub>2</sub>PO<sub>-174</sub>  H<sub>2</sub>PO<sub>-175</sub>  H<sub>2</sub>PO<sub>-176</sub>  H<sub>2</sub>PO<sub>-177</sub>  H<sub>2</sub>PO<sub>-178</sub>  H<sub>2</sub>PO<sub>-179</sub>  H<sub>2</sub>PO<sub>-180</sub>  H<sub>2</sub>PO<sub>-181</sub>  H<sub>2</sub>PO<sub>-182</sub>  H<sub>2</sub>PO<sub>-183</sub>  H<sub>2</sub>PO<sub>-184</sub>  H<sub>2</sub>PO<sub>-185</sub>  H<sub>2</sub>PO<sub>-186</sub>  H<sub>2</sub>PO<sub>-187</sub>  H<sub>2</sub>PO<sub>-188</sub>  H<sub>2</sub>PO<sub>-189</sub>  H<sub>2</sub>PO<sub>-190</sub>  H<sub>2</sub>PO<sub>-191</sub>  H<sub>2</sub>PO<sub>-192</sub>  H<sub>2</sub>PO<sub>-193</sub>  H<sub>2</sub>PO<sub>-194</sub>  H<sub>2</sub>PO<sub>-195</sub>  H<sub>2</sub>PO<sub>-196</sub>  H<sub>2</sub>PO<sub>-197</sub>  H<sub>2</sub>PO<sub>-198</sub>  H<sub>2</sub>PO<sub>-199</sub>  H<sub>2</sub>PO<sub>-200</sub>  H<sub>2</sub>PO<sub>-201</sub>  H<sub>2</sub>PO<sub>-202</sub>  H<sub>2</sub>PO<sub>-203</sub>  H<sub>2</sub>PO<sub>-204</sub>  H<sub>2</sub>PO<sub>-205</sub>  H<sub>2</sub>PO<sub>-206</sub>  H<sub>2</sub>PO<sub>-207</sub>  H<sub>2</sub>PO<sub>-208</sub>  H<sub>2</sub>PO<sub>-209</sub>  H<sub>2</sub>PO<sub>-210</sub>  H<sub>2</sub>PO<sub>-211</sub>  H<sub>2</sub>PO<sub>-212</sub>  H<sub>2</sub>PO<sub>-213</sub>  H<sub>2</sub>PO<sub>-214</sub>  H<sub>2</sub>PO<sub>-215</sub>  H<sub>2</sub>PO<sub>-216</sub>  H<sub>2</sub>PO<sub>-217</sub>  H<sub>2</sub>PO<sub>-218</sub>  H<sub>2</sub>PO<sub>-219</sub>  H<sub>2</sub>PO<sub>-220</sub>  H<sub>2</sub>PO<sub>-221</sub>  H<sub>2</sub>PO<sub>-222</sub>  H<sub>2</sub>PO<sub>-223</sub>  H<sub>2</sub>PO<sub>-224</sub>  H<sub>2</sub>PO<sub>-225</sub>  H<sub>2</sub>PO<sub>-226</sub>  H<sub>2</sub>PO<sub>-227</sub>  H<sub>2</sub>PO<sub>-228</sub>  H<sub>2</sub>PO<sub>-229</sub>  H<sub>2</sub>PO<sub>-230</sub>  H<sub>2</sub>PO<sub>-231</sub>  H<sub>2</sub>PO<sub>-232</sub>  H<sub>2</sub>PO<sub>-233</sub>  H<sub>2</sub>PO<sub>-234</sub>  H<sub>2</sub>PO<sub>-235</sub>  H<sub>2</sub>PO<sub>-236</sub>  H<sub>2</sub>PO<sub>-237</sub>  H<sub>2</sub>PO<sub>-238</sub>  H<sub>2</sub>PO<sub>-239</sub>  H<sub>2</sub>PO<sub>-240</sub>  H<sub>2</sub>PO<sub>-241</sub>  H<sub>2</sub>PO<sub>-242</sub>  H<sub>2</sub>PO<sub>-243</sub>  H<sub>2</sub>PO<sub>-244</sub>  H<sub>2</sub>PO<sub>-245</sub>  H<sub>2</sub>PO<sub>-246</sub>  H<sub>2</sub>PO<sub>-247</sub>  H<sub>2</sub>PO<sub>-248</sub>  H<sub>2</sub>PO<sub>-249</sub>  H<sub>2</sub>PO<sub>-250</sub>  H<sub>2</sub>PO<sub>-251</sub>  H<sub>2</sub>PO<sub>-252</sub>  H<sub>2</sub>PO<sub>-253</sub>  H<sub>2</sub>PO<sub>-254</sub>  H<sub>2</sub>PO<sub>-255</sub>  H<sub>2</sub>PO<sub>-256</sub>  H<sub>2</sub>PO<sub>-257</sub>  H<sub>2</sub>PO<sub>-258</sub>  H<sub>2</sub>PO<sub>-259</sub>  H<sub>2</sub>PO<sub>-260</sub>  H<sub>2</sub>PO<sub>-261</sub>  H<sub>2</sub>PO<sub>-262</sub>  H<sub>2</sub>PO<sub>-263</sub>  H<sub>2</sub>PO<sub>-264</sub>  H<sub>2</sub>PO<sub>-265</sub>  H<sub>2</sub>PO<sub>-266</sub>  H<sub>2</sub>PO<sub>-267</sub>  H<sub>2</sub>PO<sub>-268</sub>  H<sub>2</sub>PO<sub>-269</sub>  H<sub>2</sub>PO<sub>-270</sub>  H<sub>2</sub>PO<sub>-271</sub>  H<sub>2</sub>PO<sub>-272</sub>  H<sub>2</sub>PO<sub>-273</sub>  H<sub>2</sub>PO<sub>-274</sub>  H<sub>2</sub>PO<sub>-275</sub>  H<sub>2</sub>PO<sub>-276</sub>  H<sub>2</sub>PO<sub>-277</sub>  H<sub>2</sub>PO<sub>-278</sub>  H<sub>2</sub>PO<sub>-279</sub>  H<sub>2</sub>PO<sub>-280</sub>  H<sub>2</sub>PO<sub>-281</sub>  H<sub>2</sub>PO<sub>-282</sub>  H<sub>2</sub>PO<sub>-283</sub>  H<sub>2</sub>PO<sub>-284</sub>  H<sub>2</sub>PO<sub>-285</sub>  H<sub>2</sub>PO<sub>-286</sub>  H<sub>2</sub>PO<sub>-287</sub>  H<sub>2</sub>PO<sub>-288</sub>  H<sub>2</sub>PO<sub>-289</sub>  H<sub>2</sub>PO<sub>-290</sub>  H<sub>2</sub>PO<sub>-291</sub>  H<sub>2</sub>PO<sub>-292</sub>  H<sub>2</sub>PO<sub>-293</sub>  H<sub>2</sub>PO<sub>-294</sub>  H<sub>2</sub>PO<sub>-295</sub>  H<sub>2</sub>PO<sub>-296</sub>  H<sub>2</sub>PO<sub>-297</sub>  H<sub>2</sub>PO<sub>-298</sub>  H<sub>2</sub>PO<sub>-299</sub>  H<sub>2</sub>PO<sub>-300</sub>  H<sub>2</sub>PO<sub>-301</sub>  H<sub>2</sub>PO<sub>-302</sub>  H<sub>2</sub>PO<sub>-303</sub>  H<sub>2</sub>PO<sub>-304</sub>  H<sub>2</sub>PO<sub>-305</sub>  H<sub>2</sub>PO<sub>-306</sub>  H<sub>2</sub>PO<sub>-307</sub>  H<sub>2</sub>PO<sub>-308</sub>  H<sub>2</sub>PO<sub>-309</sub>  H<sub>2</sub>PO<sub>-310</sub>  H<sub>2</sub>PO<sub>-311</sub>  H<sub>2</sub>PO<sub>-312</sub>  H<sub>2</sub>PO<sub>-313</sub>  H<sub>2</sub>PO<sub>-314</sub>  H<sub>2</sub>PO<sub>-315</sub>  H<sub>2</sub>PO<sub>-316</sub>  H<sub>2</sub>PO<sub>-317</sub>  H<sub>2</sub>PO<sub>-318</sub>  H<sub>2</sub>PO<sub>-319</sub>  H<sub>2</sub>PO<sub>-320</sub>  H<sub>2</sub>PO<sub>-321</sub>  H<sub>2</sub>PO<sub>-322</sub>  H<sub>2</sub>PO<sub>-323</sub>  H<sub>2</sub>PO<sub>-324</sub>  H<sub>2</sub>PO<sub>-325</sub>  H<sub>2</sub>PO<sub>-326</sub>  H<sub>2</sub>PO<sub>-327</sub>  H<sub>2</sub>PO<sub>-328</sub>  H<sub>2</sub>PO<sub>-329</sub>  H<sub>2</sub>PO<sub>-330</sub>  H<sub>2</sub>PO<sub>-331</sub>  H<sub>2</sub>PO<sub>-332</sub>  H<sub>2</sub>PO<sub>-333</sub>  H<sub>2</sub>PO<sub>-334</sub>  H<sub>2</sub>PO<sub>-335</sub>  H<sub>2</sub>PO<sub>-336</sub>  H<sub>2</sub>PO<sub>-337</sub>  H<sub>2</sub>PO<sub>-338</sub>  H<sub>2</sub>PO<sub>-339</sub>  H<sub>2</sub>PO<sub>-340</sub>  H<sub>2</sub>PO<sub>-341</sub>  H<sub>2</sub>PO<sub>-342</sub>  H<sub>2</sub>PO<sub>-343</sub>  H<sub>2</sub>PO<sub>-344</sub>  H<sub>2</sub>PO<sub>-345</sub>  H<sub>2</sub>PO<sub>-346</sub>  H<sub>2</sub>PO<sub>-347</sub>  H<sub>2</sub>PO<sub>-348</sub>  H<sub>2</sub>PO<sub>-349</sub>  H<sub>2</sub>PO<sub>-350</sub>  H<sub>2</sub>PO<sub>-351</sub>  H<sub>2</sub>PO<sub>-352</sub>  H<sub>2</sub>PO<sub>-353</sub>  H<sub>2</sub>PO<sub>-354</sub>  H<sub>2</sub>PO<sub>-355</sub>  H<sub>2</sub>PO<sub>-356</sub>  H<sub>2</sub>PO<sub>-357</sub>  H<sub>2</sub>PO<sub>-358</sub>  H<sub>2</sub>PO<sub>-359</sub>  H<sub>2</sub>PO<sub>-360</sub>  H<sub>2</sub>PO<sub>-361</sub>  H<sub>2</sub>PO<sub>-362</sub>  H<sub>2</sub>PO<sub>-363</sub>  H<sub>2</sub>PO<sub>-364</sub>  H<sub>2</sub>PO<sub>-365</sub>  H<sub>2</sub>PO<sub>-366</sub>  H<sub>2</sub>PO<sub>-367</sub>  H<sub>2</sub>PO<sub>-368</sub>  H<sub>2</sub>PO<sub>-369</sub>  H<sub>2</sub>PO<sub>-370</sub>  H<sub>2</sub>PO<sub>-371</sub>  H<sub>2</sub>PO<sub>-372</sub>  H<sub>2</sub>PO<sub>-373</sub>  H<sub>2</sub>PO<sub>-374</sub>  H<sub>2</sub>PO<sub>-375</sub>  H<sub>2</sub>PO<sub>-376</sub>  H<sub>2</sub>PO<sub>-377</sub>  H<sub>2</sub>PO<sub>-378</sub>  H<sub>2</sub>PO<sub>-379</sub>  H<sub>2</sub>PO<sub>-380</sub>  H<sub>2</sub>PO<sub>-381</sub>  H<sub>2</sub>PO<sub>-382</sub>  H<sub>2</sub>PO<sub>-383</sub>  H<sub>2</sub>PO<sub>-384</sub>  H<sub>2</sub>PO<sub>-385</sub>  H<sub>2</sub>PO<sub>-386</sub>  H<sub>2</sub>PO<sub>-387</sub>  H<sub>2</sub>PO<sub>-388</sub>  H<sub>2</sub>PO<sub>-389</sub>  H<sub>2</sub>PO<sub>-390</sub>  H<sub>2</sub>PO<sub>-391</sub>  H<sub>2</sub>PO<sub>-392</sub>  H<sub>2</sub>PO<sub>-393</sub>  H<sub>2</sub>PO<sub>-394</sub>  H<sub>2</sub>PO<sub>-395</sub>  H<sub>2</sub>PO<sub>-396</sub>  H<sub>2</sub>PO<sub>-397</sub>  H<sub>2</sub>PO<sub>-398</sub>  H<sub>2</sub>PO<sub>-399</sub>  H<sub>2</sub>PO<sub>-400</sub>  H<sub>2</sub>PO<sub>-401</sub>  H<sub>2</sub>PO<sub>-402</sub>  H<sub>2</sub>PO<sub>-403</sub>  H<sub>2</sub>PO<sub>-404</sub>  H<sub>2</sub>PO<sub>-405</sub>  H<sub>2</sub>PO<sub>-406</sub>  H<sub>2</sub>PO<sub>-407</sub>  H<sub>2</sub>PO<sub>-408</sub>  H<sub>2</sub>PO<sub>-409</sub>  H<sub>2</sub>PO<sub>-410</sub>  H<sub>2</sub>PO<sub>-411</sub>  H<sub>2</sub>PO<sub>-412</sub>  H<sub>2</sub>PO<sub>-413</sub>  H<sub>2</sub>PO<sub>-414</sub>  H<sub>2</sub>PO<sub>-415</sub>  H<sub>2</sub>PO<sub>-416</sub>  H



# CALSCIENCE

**WORK ORDER NUMBER: 14-04-2246**

*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. Clarke*

Approved for release on 05/01/2014 by:  
Ranjit Clarke  
Project Manager

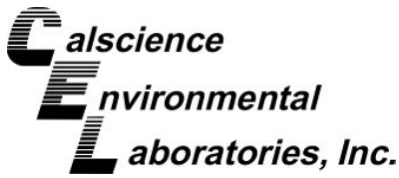
ResultLink ▶

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.





# Contents

---

Client Project Name: DFSP - Norwalk  
Work Order Number: 14-04-2246

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 SM 2540 D Total Suspended Solids (Aqueous). . . . .	5
4	Quality Control Sample Data. . . . .	6
	4.1 Sample Duplicate. . . . .	6
	4.2 LCS/LCSD. . . . .	7
5	Sample Analysis Summary. . . . .	8
6	Glossary of Terms and Qualifiers. . . . .	9
7	Chain of Custody/Sample Receipt Form. . . . .	10



**Work Order Narrative**

Work Order: 14-04-2246

Page 1 of 1

**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 04/30/14. They were assigned to Work Order 14-04-2246.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**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:**

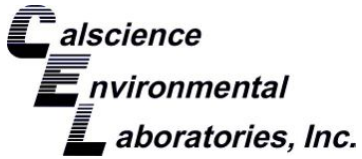
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

**Subcontractor Information:**

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

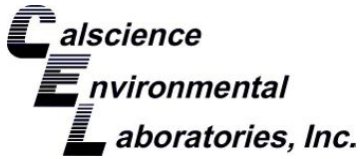


## Sample Summary

Client: Parsons Government Services, Inc.	Work Order: 14-04-2246
100 West Walnut Street	Project Name: DFSP - Norwalk
Pasadena, CA 91124-0002	PO Number: 747577-05000
	Date/Time Received: 04/30/14 16:45
	Number of Containers: 2

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-04-2246-1	04/30/14 14:45	2	Aqueous



## Analytical Report

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

Date Received: 04/30/14  
Work Order: 14-04-2246  
Preparation: N/A  
Method: SM 2540 D  
Units: mg/L

Project: DFSP - Norwalk

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Effluent</b>	<b>14-04-2246-1-AB</b>	<b>04/30/14 14:45</b>	<b>Aqueous</b>	<b>N/A</b>	<b>05/01/14</b>	<b>05/01/14 13:30</b>	<b>E0501TSSB1</b>

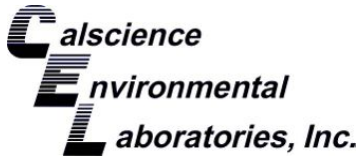
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Suspended	ND	1.0	1.00	

<b>Method Blank</b>	<b>099-09-010-6670</b>	<b>N/A</b>	<b>Aqueous</b>	<b>N/A</b>	<b>05/01/14</b>	<b>05/01/14 13:30</b>	<b>E0501TSSB1</b>
---------------------	------------------------	------------	----------------	------------	-----------------	---------------------------	-------------------

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Suspended	ND	1.0	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Sample Duplicate

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

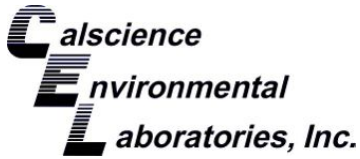
Date Received: 04/30/14  
Work Order: 14-04-2246  
Preparation: N/A  
Method: SM 2540 D

Project: DFSP - Norwalk

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-04-2093-2	Sample	Aqueous	N/A	05/01/14 00:00	05/01/14 13:30	E0501TSSD1
14-04-2093-2	Sample Duplicate	Aqueous	N/A	05/01/14 00:00	05/01/14 13:30	E0501TSSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	163.0	167.0	2	0-20	



## Quality Control - LCS/LCSD

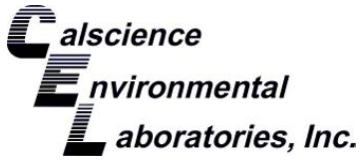
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 04/30/14  
Work Order: 14-04-2246  
Preparation: N/A  
Method: SM 2540 D

Project: DFSP - Norwalk

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-09-010-6670	LCS	Aqueous	N/A	05/01/14	05/01/14 13:30	E0501TSSB1			
099-09-010-6670	LCSD	Aqueous	N/A	05/01/14	05/01/14 13:30	E0501TSSB1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	92.00	92	91.00	91	80-120	1	0-20	



## Sample Analysis Summary Report

---

Work Order: 14-04-2246

Page 1 of 1

---

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
SM 2540 D	N/A	722	N/A	1

  
Return to Contents

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

## Glossary of Terms and Qualifiers

Work Order: 14-04-2246

Page 1 of 1

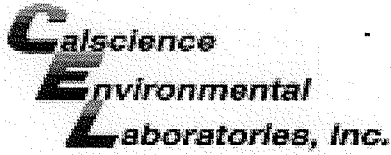
<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate 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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSR or PES/PESR associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq$  15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.







WORK ORDER #: 14-04-2246

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSON

DATE: 04/30/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C [X] 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

Checked by: 820

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A Checked by: 820

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present Checked by: 739

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, 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, Aqueous samples received within 15-minute holding time, Proper preservation noted on COC or sample container, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_

Aqueous: [ ] VOA [ ] VOA<sub>h</sub> [ ] VOA<sub>na2</sub> [ ] 125AGB [ ] 125AGB<sub>h</sub> [ ] 125AGB<sub>p</sub> [ ] 1AGB [ ] 1AGB<sub>na2</sub> [ ] 1AGB<sub>s</sub>

[ ] 500AGB [ ] 500AGJ [ ] 500AGJ<sub>s</sub> [ ] 250AGB [ ] 250CGB [ ] 250CGB<sub>s</sub> [ ] 1PB [ ] 1PB<sub>na</sub> [ ] 500PB

[X] 250PB [ ] 250PB<sub>n</sub> [ ] 125PB [ ] 125PB<sub>znna</sub> [ ] 100PJ [ ] 100PJ<sub>na2</sub> [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

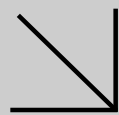
Air: [ ] Tedlar® [ ] Canister Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 659

Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure znna: ZnAc2+NaOH f: Filtered Scanned by: 659







# CALSCIENCE

**WORK ORDER NUMBER: 14-05-0177**

*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. Clarke*

Approved for release on 05/05/2014 by:  
Ranjit Clarke  
Project Manager

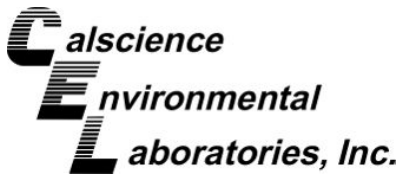
ResultLink ▶

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.





# Contents

Client Project Name: DFSP - Norwalk  
Work Order Number: 14-05-0177

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 6020 ICP/MS Metals (Aqueous). . . . .	5
4	Quality Control Sample Data. . . . .	6
	4.1 MS/MSD. . . . .	6
	4.2 PDS/PDSD. . . . .	7
	4.3 LCS/LCSD. . . . .	8
5	Sample Analysis Summary. . . . .	9
6	Glossary of Terms and Qualifiers. . . . .	10
7	Chain of Custody/Sample Receipt Form. . . . .	11

**Work Order Narrative**

Work Order: 14-05-0177

Page 1 of 1

**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 05/02/14. They were assigned to Work Order 14-05-0177.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**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:**

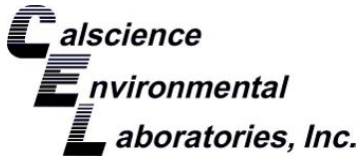
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

**Subcontractor Information:**

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

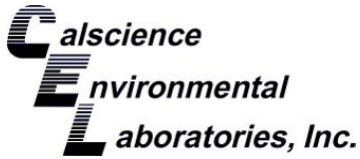


## Sample Summary

Client: Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order: 14-05-0177 Project Name: DFSP - Norwalk PO Number: Date/Time Received: 05/02/14 17:58 Number of Containers: 1
--	---

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-0177-1	05/02/14 13:15	1	Aqueous



## Analytical Report

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

Date Received: 05/02/14  
Work Order: 14-05-0177  
Preparation: EPA 3020A Total  
Method: EPA 6020  
Units: mg/L

Project: DFSP - Norwalk

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Effluent</b>	<b>14-05-0177-1-A</b>	<b>05/02/14 13:15</b>	<b>Aqueous</b>	<b>ICP/MS 04</b>	<b>05/02/14</b>	<b>05/05/14 12:51</b>	<b>140502L03</b>

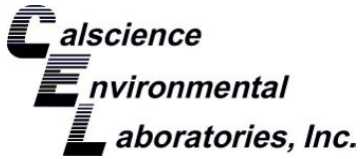
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	0.00383	0.00100	1.00	

<b>Method Blank</b>	<b>096-06-003-4416</b>	<b>N/A</b>	<b>Aqueous</b>	<b>ICP/MS 04</b>	<b>05/02/14</b>	<b>05/05/14 12:44</b>	<b>140502L03</b>
---------------------	------------------------	------------	----------------	------------------	-----------------	---------------------------	------------------

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	ND	0.00100	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

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

Date Received: 05/02/14  
Work Order: 14-05-0177  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

Project: DFSP - Norwalk

Page 1 of 1

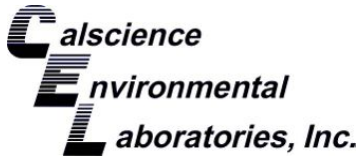
Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-0001-5	Sample	Aqueous	ICP/MS 04	05/02/14	05/05/14 13:01	140502S03
14-05-0001-5	Matrix Spike	Aqueous	ICP/MS 04	05/02/14	05/05/14 13:22	140502S03
14-05-0001-5	Matrix Spike Duplicate	Aqueous	ICP/MS 04	05/02/14	05/05/14 13:26	140502S03

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.01001	0.1000	0.08193	72	0.09273	83	73-127	12	0-11	3,4

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





## Quality Control - PDS

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

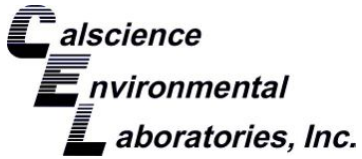
Date Received: 05/02/14  
Work Order: 14-05-0177  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

Project: DFSP - Norwalk

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-05-0001-5	Sample	Aqueous	ICP/MS 04	05/02/14 00:00	05/05/14 13:01	140502S03
14-05-0001-5	PDS	Aqueous	ICP/MS 04	05/02/14 00:00	05/05/14 13:19	140502S03

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.01001	0.1000	0.09798	88	75-125	



## Quality Control - LCS

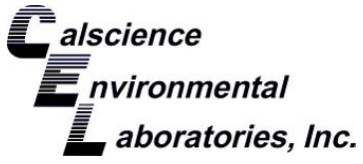
Parsons Government Services, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 05/02/14  
Work Order: 14-05-0177  
Preparation: EPA 3020A Total  
Method: EPA 6020

Project: DFSP - Norwalk

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-4416	LCS	Aqueous	ICP/MS 04	05/02/14	05/05/14 12:48	140502L03
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic		0.1000	0.09928	99	80-120	



## Sample Analysis Summary Report

Work Order: 14-05-0177

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6020	EPA 3020A Total	598	ICP/MS 04	1

  
Return to Contents

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

## Glossary of Terms and Qualifiers

Work Order: 14-05-0177

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.



**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSON'S

DATE: 05/2/14

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °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

Checked by: 678

**CUSTODY SEALS INTACT:**

- Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A
- Sample  \_\_\_\_\_  No (Not Intact)  Not Present

Checked by: 678

Checked by: 802

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

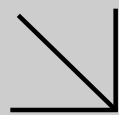
- Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_
- Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>
- 500AGB  500AGJ  500AGJ<sub>s</sub>  250AGB  250CGB  250CGB<sub>s</sub>  1PB  1PB<sub>na</sub>  500PB
- 250PB  250PB<sub>nu</sub>  125PB  125PB<sub>zanna</sub>  100PJ  100PJ<sub>na2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Canister **Other:**  \_\_\_\_\_ **Trip Blank Lot#:** \_\_\_\_\_ **Labeled/Checked by:** 802

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 802

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered **Scanned by:** 802

Return to Contents



# CALSCIENCE

**WORK ORDER NUMBER: 14-05-1338**

*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. Clarke*

Approved for release on 05/28/2014 by:  
Ranjit Clarke  
Project Manager

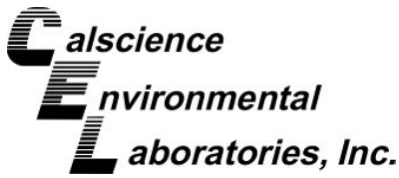
ResultLink ▶

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.





# Contents

Client Project Name: DFSP Norwalk - Quarterly  
Work Order Number: 14-05-1338

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 6020 ICP/MS Metals (Aqueous). . . . .	5
	3.2 Combined Inorganic Tests. . . . .	6
4	Quality Control Sample Data. . . . .	7
	4.1 MS/MSD. . . . .	7
	4.2 PDS/PDSD. . . . .	9
	4.3 Sample Duplicate. . . . .	10
	4.4 LCS/LCSD. . . . .	15
5	Sample Analysis Summary. . . . .	20
6	Glossary of Terms and Qualifiers. . . . .	21
7	Chain of Custody/Sample Receipt Form. . . . .	22



**Work Order Narrative**

Work Order: 14-05-1338

Page 1 of 1

**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 05/16/14. They were assigned to Work Order 14-05-1338.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**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:**

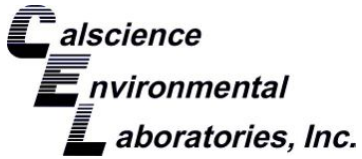
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

**Subcontractor Information:**

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

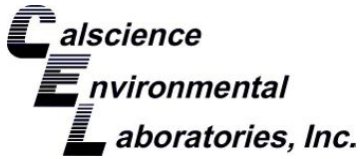


## Sample Summary

Client: Parsons Government Services, Inc.	Work Order: 14-05-1338
100 West Walnut Street	Project Name: DFSP Norwalk - Quarterly
Pasadena, CA 91124-0002	PO Number:
	Date/Time Received: 05/16/14 18:00
	Number of Containers: 7

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-1338-1	05/16/14 13:05	7	Aqueous



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: EPA 3020A Total  
Method: EPA 6020  
Units: mg/L

Project: DFSP Norwalk - Quarterly

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Effluent</b>	<b>14-05-1338-1-B</b>	<b>05/16/14 13:05</b>	<b>Aqueous</b>	<b>ICP/MS 04</b>	<b>05/19/14</b>	<b>05/20/14 17:34</b>	<b>140519L06</b>

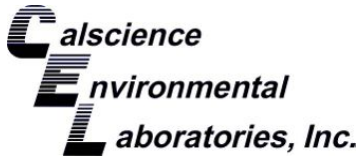
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	ND	0.00100	1.00	
Copper	0.00148	0.00100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>096-06-003-4429</b>	<b>N/A</b>	<b>Aqueous</b>	<b>ICP/MS 03</b>	<b>05/19/14</b>	<b>05/19/14 21:41</b>	<b>140519L06</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	ND	0.00100	1.00	
Copper	ND	0.00100	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002  
 Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14  
 Work Order: 14-05-1338

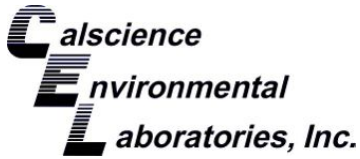
Page 1 of 1

Client Sample Number	Lab Sample Number				Date/Time Collected		Matrix	
<b>Effluent</b>	<b>14-05-1338-1</b>				<b>05/16/14 13:05</b>		<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Turbidity	0.10	0.050	1.00		NTU	N/A	05/16/14	SM 2130 B
Solids, Total Suspended	2.4	1.0	1.00		mg/L	05/20/14	05/20/14	SM 2540 D
Solids, Settleable	ND	0.10	1.00		mL/L/hr	N/A	05/16/14	SM 2540 F
Sulfide, Total	ND	0.050	1.00		mg/L	05/21/14	05/21/14	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1.00	BV,BU	mg/L	N/A	05/16/14	SM 4500-CI F
Biochemical Oxygen Demand	1.7	1.0	1.00		mg/L	05/17/14	05/22/14	SM 5210 B
Oil and Grease	ND	1.0	1.00		mg/L	05/28/14	05/28/14	SM 5520 B
MBAS	ND	0.10	1.00		mg/L	05/16/14	05/16/14	SM 5540C

<b>Method Blank</b>						<b>N/A</b>	<b>Aqueous</b>	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Solids, Total Suspended	ND	1.0	1.00		mg/L	05/20/14	05/20/14	SM 2540 D
Sulfide, Total	ND	0.050	1.00		mg/L	05/21/14	05/21/14	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1.00		mg/L	N/A	05/16/14	SM 4500-CI F
Biochemical Oxygen Demand	ND	1.0	1.00		mg/L	05/17/14	05/22/14	SM 5210 B
Oil and Grease	ND	1.0	1.00		mg/L	05/28/14	05/28/14	SM 5520 B
MBAS	ND	0.10	1.00		mg/L	05/16/14	05/16/14	SM 5540C


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: N/A  
Method: SM 5540C

Project: DFSP Norwalk - Quarterly

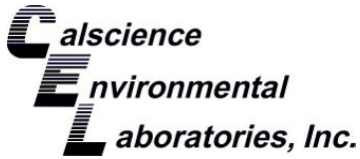
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-1327-1	Sample	Aqueous	UV 9	05/16/14	05/16/14 19:32	E0516SURS1
14-05-1327-1	Matrix Spike	Aqueous	UV 9	05/16/14	05/16/14 19:32	E0516SURS1
14-05-1327-1	Matrix Spike Duplicate	Aqueous	UV 9	05/16/14	05/16/14 19:32	E0516SURS1

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
MBAS	ND	1.000	0.9300	93	0.9500	95	70-130	2	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Spike/Spike Duplicate

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

Project: DFSP Norwalk - Quarterly

Page 2 of 2

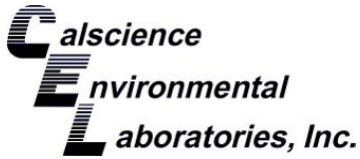
Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-1386-1	Sample	Aqueous	ICP/MS 03	05/19/14	05/19/14 20:59	140519S06
14-05-1386-1	Matrix Spike	Aqueous	ICP/MS 03	05/19/14	05/19/14 20:50	140519S06
14-05-1386-1	Matrix Spike Duplicate	Aqueous	ICP/MS 03	05/19/14	05/19/14 20:52	140519S06

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.05000	0.04658	93	0.04597	92	73-127	1	0-11	
Copper	ND	0.05000	0.05146	103	0.05113	102	72-108	1	0-10	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - PDS

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: EPA 3005A Filt.  
Method: EPA 6020

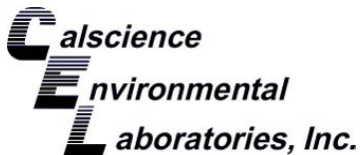
Project: DFSP Norwalk - Quarterly

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-05-1386-1	Sample	Aqueous	ICP/MS 03	05/19/14 00:00	05/19/14 20:59	140519S06
14-05-1386-1	PDS	Aqueous	ICP/MS 03	05/19/14 00:00	05/19/14 20:54	140519S06
Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.09102	91	75-125	
Copper	ND	0.1000	0.09956	100	75-125	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



**Quality Control - Sample Duplicate**

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 2130 B

Project: DFSP Norwalk - Quarterly

Page 1 of 5

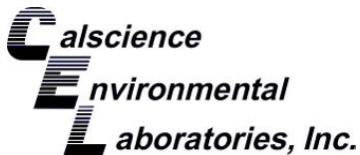
Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>Effluent</b>	<b>Sample</b>	<b>Aqueous</b>	<b>TUR 3</b>	<b>N/A</b>	<b>05/16/14 18:52</b>	<b>E0516TURD1</b>
<b>Effluent</b>	<b>Sample Duplicate</b>	<b>Aqueous</b>	<b>TUR 3</b>	<b>N/A</b>	<b>05/16/14 18:52</b>	<b>E0516TURD1</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Turbidity	0.1000	0.1100	10	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





**Quality Control - Sample Duplicate**

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 2540 D

Project: DFSP Norwalk - Quarterly

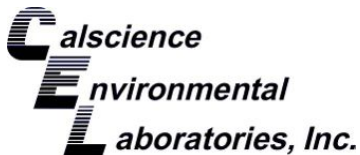
Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1395-2	Sample	Aqueous	N/A	05/20/14 00:00	05/20/14 14:00	E0520TSSD1
14-05-1395-2	Sample Duplicate	Aqueous	N/A	05/20/14 00:00	05/20/14 14:00	E0520TSSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	418.0	394.0	6	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Sample Duplicate

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 4500 S2 - D

Project: DFSP Norwalk - Quarterly

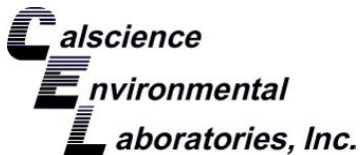
Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1344-6	Sample	Aqueous	N/A	05/21/14 00:00	05/21/14 19:11	E0521SD2
14-05-1344-6	Sample Duplicate	Aqueous	N/A	05/21/14 00:00	05/21/14 19:11	E0521SD2

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Sulfide, Total	ND	ND	N/A	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



**Quality Control - Sample Duplicate**

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 4500-CI F

Project: DFSP Norwalk - Quarterly

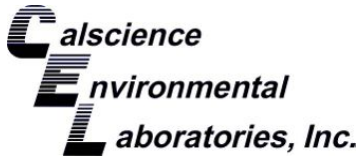
Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
<b>Effluent</b>	<b>Sample</b>	<b>Aqueous</b>	<b>BUR16</b>	<b>N/A</b>	<b>05/16/14 18:56</b>	<b>E0516CLFD2</b>
<b>Effluent</b>	<b>Sample Duplicate</b>	<b>Aqueous</b>	<b>BUR16</b>	<b>N/A</b>	<b>05/16/14 18:56</b>	<b>E0516CLFD2</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chlorine, Total Residual	ND	ND	N/A	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Sample Duplicate

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

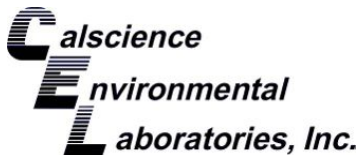
Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: N/A  
Method: SM 5210 B

Project: DFSP Norwalk - Quarterly

Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-05-1327-1	Sample	Aqueous	BOD 1	05/17/14 00:00	05/22/14 13:40	E0517BODD1
14-05-1327-1	Sample Duplicate	Aqueous	BOD 1	05/17/14 00:00	05/22/14 13:40	E0517BODD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Biochemical Oxygen Demand	ND	ND	N/A	0-25	



Quality Control - LCS/LCSD

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 2540 D

Project: DFSP Norwalk - Quarterly

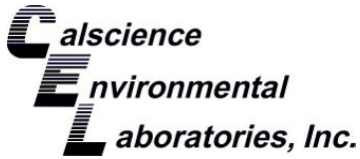
Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-6689	LCS	Aqueous	N/A	05/20/14	05/20/14 14:00	E0520TSSL1
099-09-010-6689	LCSD	Aqueous	N/A	05/20/14	05/20/14 14:00	E0520TSSL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	98.00	98	101.0	101	80-120	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS/LCSD

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: N/A  
Method: SM 4500 S2 - D

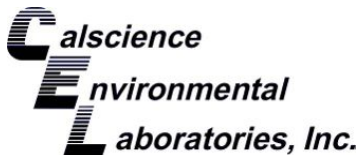
Project: DFSP Norwalk - Quarterly

Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-853-294	LCS	Aqueous	N/A	05/21/14	05/21/14 19:11	E0521SL2			
099-15-853-294	LCSD	Aqueous	N/A	05/21/14	05/21/14 19:11	E0521SL2			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Sulfide, Total	1.000	0.8500	85	0.8500	85	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

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

Date Received: 05/16/14  
 Work Order: 14-05-1338  
 Preparation: N/A  
 Method: SM 5520 B

Project: DFSP Norwalk - Quarterly

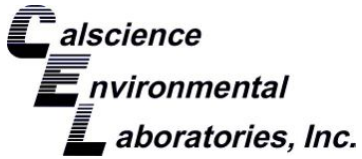
Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-2967	LCS	Aqueous	N/A	05/28/14	05/28/14 15:00	E0528OGL1
099-05-081-2967	LCSD	Aqueous	N/A	05/28/14	05/28/14 15:00	E0528OGL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oil and Grease	40.00	38.10	95	39.50	99	80-120	4	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

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

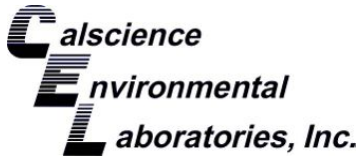
Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: N/A  
Method: SM 5540C

Project: DFSP Norwalk - Quarterly

Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-093-2681	LCS	Aqueous	UV 9	05/16/14	05/16/14 19:32	E0516SURL1
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
MBAS		1.000	0.9400	94	80-120	





## Quality Control - LCS/LCSD

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

Date Received: 05/16/14  
Work Order: 14-05-1338  
Preparation: EPA 3020A Total  
Method: EPA 6020

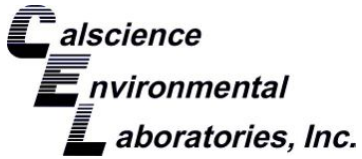
Project: DFSP Norwalk - Quarterly

Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
096-06-003-4429	LCS	Aqueous	ICP/MS 03	05/19/14	05/19/14 21:51	140519L06			
096-06-003-4429	LCSD	Aqueous	ICP/MS 03	05/19/14	05/20/14 16:31	140519L06			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1028	103	0.09601	96	80-120	7	0-20	
Copper	0.1000	0.1026	103	0.09945	99	80-120	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 14-05-1338

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6020	EPA 3020A Total	598	ICP/MS 04	1
SM 2130 B	N/A	688	TUR 3	1
SM 2540 D	N/A	722	N/A	1
SM 2540 F	N/A	691	N/A	1
SM 4500 S2 - D	N/A	880	N/A	1
SM 4500-CI F	N/A	688	BUR16	1
SM 5210 B	N/A	691	BOD 1	1
SM 5520 B	N/A	691	N/A	1
SM 5540C	N/A	735	UV 9	1

  
Return to Contents

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

## Glossary of Terms and Qualifiers

Work Order: 14-05-1338

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.



WORK ORDER #: **14-05-1338**

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSONS

DATE: 05/16/14

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °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

Checked by: 804

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Checked by: 804

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Checked by: 802

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input checked="" type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

Aqueous:  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>

500AGB  500AGJ  500AGJ<sub>s</sub>  250AGB  250CGB  250CGB<sub>s</sub>  1PB  1PB<sub>na</sub>  500PB

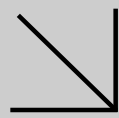
250PB  250PB<sub>na</sub>  125PB  125PB<sub>z</sub>  100PJ  100PJ<sub>na2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Canister Other:  \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 778

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: 778





# CALSCIENCE

**WORK ORDER NUMBER: 14-05-1351**

*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. Clarke*

Approved for release on 05/28/2014 by:  
Ranjit Clarke  
Project Manager

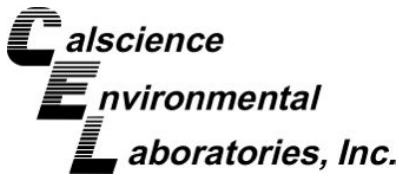
ResultLink ▶

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.





# Contents

Client Project Name: DFSP Norwalk - Quarterly  
Work Order Number: 14-05-1351

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8015B (M) TPH Diesel (Aqueous). . . . .	5
	3.2 EPA 8015B (M) TPH Gasoline (Aqueous). . . . .	6
	3.3 EPA 8260B Volatile Organics (Aqueous). . . . .	7
	3.4 Combined Inorganic Tests. . . . .	13
4	Quality Control Sample Data. . . . .	14
	4.1 MS/MSD. . . . .	14
	4.2 LCS/LCSD. . . . .	16
5	Sample Analysis Summary. . . . .	20
6	Glossary of Terms and Qualifiers. . . . .	21
7	Chain of Custody/Sample Receipt Form. . . . .	22

## Work Order Narrative

---

Work Order: 14-05-1351

Page 1 of 1

---

### **Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 05/16/14. They were assigned to Work Order 14-05-1351.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

### **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:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

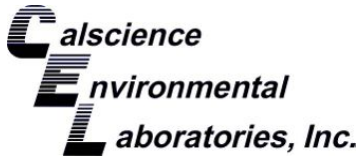
New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

### **Subcontractor Information:**

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



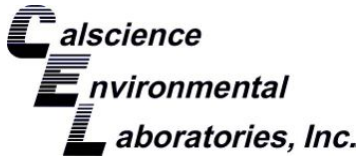


## Sample Summary

Client: Parsons Government Services, Inc.	Work Order: 14-05-1351
100 West Walnut Street	Project Name: DFSP Norwalk - Quarterly
Pasadena, CA 91124-0002	PO Number:
	Date/Time Received: 05/16/14 18:00
	Number of Containers: 8

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Effluent	14-05-1351-1	05/16/14 13:05	8	Aqueous



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: DFSP Norwalk - Quarterly

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Effluent</b>	<b>14-05-1351-1-H</b>	<b>05/16/14 13:05</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>05/19/14</b>	<b>05/20/14 15:12</b>	<b>140519B14</b>

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	68-140	

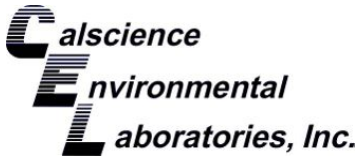
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-282-196</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>05/19/14</b>	<b>05/20/14 14:20</b>	<b>140519B14</b>

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8015B (M)  
Units: ug/L

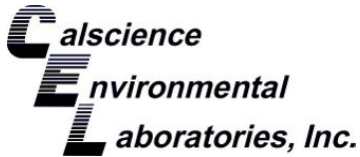
Project: DFSP Norwalk - Quarterly

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Effluent</b>	<b>14-05-1351-1-E</b>	<b>05/16/14 13:05</b>	<b>Aqueous</b>	<b>GC 42</b>	<b>05/22/14</b>	<b>05/23/14 04:24</b>	<b>140522L054</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		100		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		73		38-134			
<b>Method Blank</b>	<b>099-15-704-768</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 42</b>	<b>05/22/14</b>	<b>05/23/14 03:13</b>	<b>140522L054</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		100		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		69		38-134			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Quarterly

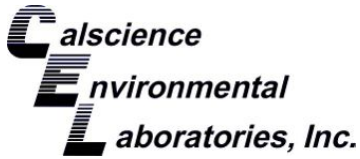
Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	14-05-1351-1-A	05/16/14 13:05	Aqueous	GC/MS JJ	05/20/14	05/20/14 14:46	140520L016

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

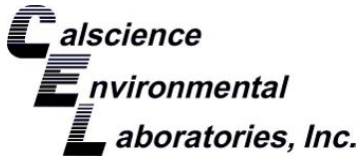
Project: DFSP Norwalk - Quarterly

Page 2 of 6

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	4.8	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

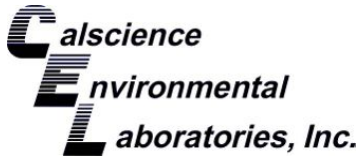
Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 05/16/14  
 Work Order: 14-05-1351  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP Norwalk - Quarterly

Page 3 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	102	80-120	



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Quarterly

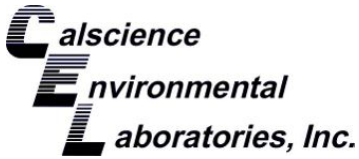
Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-14132	N/A	Aqueous	GC/MS JJ	05/20/14	05/20/14 14:16	140520L016

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP Norwalk - Quarterly

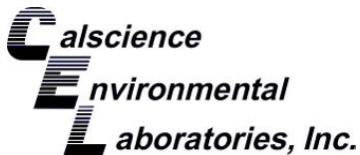
Page 5 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





## Analytical Report

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

Date Received: 05/16/14  
 Work Order: 14-05-1351  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

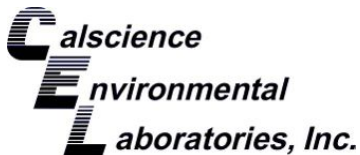
Project: DFSP Norwalk - Quarterly

Page 6 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	101	80-120	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Parsons Government Services, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002  
 Project: DFSP Norwalk - Quarterly

Date Received: 05/16/14  
 Work Order: 14-05-1351

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
<b>Effluent</b>	<b>14-05-1351-1</b>	<b>05/16/14 13:05</b>	<b>Aqueous</b>

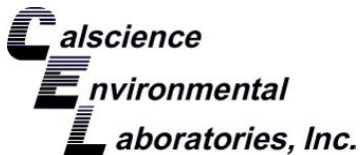
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1.00		mg/L	05/22/14	05/22/14	EPA 420.1

Method Blank	N/A						Aqueous
--------------	-----	--	--	--	--	--	---------

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1.00		mg/L	05/22/14	05/22/14	EPA 420.1



RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



**Quality Control - Spike/Spike Duplicate**

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

Date Received: 05/16/14  
 Work Order: 14-05-1351  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

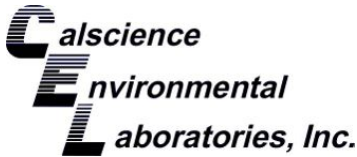
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	Sample	Aqueous	GC 42	05/22/14	05/23/14 04:24	140522S035
Effluent	Matrix Spike	Aqueous	GC 42	05/22/14	05/23/14 04:59	140522S035
Effluent	Matrix Spike Duplicate	Aqueous	GC 42	05/22/14	05/23/14 05:34	140522S035

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1773	89	1687	84	68-122	5	0-18	



RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Spike/Spike Duplicate

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP Norwalk - Quarterly

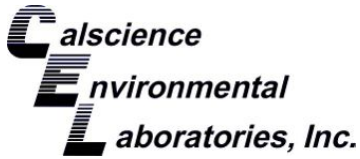
Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	Sample	Aqueous	GC/MS JJ	05/20/14	05/20/14 14:46	140520S026
Effluent	Matrix Spike	Aqueous	GC/MS JJ	05/20/14	05/20/14 15:16	140520S026
Effluent	Matrix Spike Duplicate	Aqueous	GC/MS JJ	05/20/14	05/20/14 15:46	140520S026

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.61	107	54.90	110	74-122	2	0-21	
Carbon Tetrachloride	ND	50.00	52.29	105	54.07	108	60-144	3	0-21	
Chlorobenzene	ND	50.00	53.95	108	55.22	110	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	53.59	107	54.53	109	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	54.20	108	54.96	110	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	56.71	113	57.53	115	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	59.72	119	60.97	122	52-136	2	0-21	
Ethylbenzene	ND	50.00	53.81	108	54.76	110	77-125	2	0-24	
Toluene	ND	50.00	53.55	107	54.98	110	72-126	3	0-23	
Trichloroethene	ND	50.00	53.46	107	54.11	108	74-128	1	0-22	
Vinyl Chloride	ND	50.00	57.62	115	59.89	120	67-133	4	0-20	
p/m-Xylene	ND	100.0	111.6	112	113.9	114	63-129	2	0-25	
o-Xylene	ND	50.00	57.30	115	58.30	117	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.54	105	54.21	108	68-134	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	261.6	105	267.7	107	65-143	2	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	54.40	109	56.19	112	61-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.86	106	54.60	109	64-136	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.15	100	51.59	103	67-133	3	0-20	
Ethanol	ND	500.0	568.0	114	573.4	115	34-178	1	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS/LCSD

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: N/A  
Method: EPA 420.1

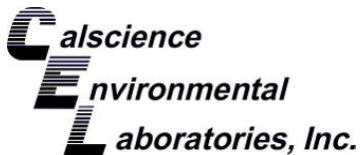
Project: DFSP Norwalk - Quarterly

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-05-085-2764	LCS	Aqueous	UV 8	05/22/14	05/22/14 15:17	E0522PHEL1			
099-05-085-2764	LCSD	Aqueous	UV 8	05/22/14	05/22/14 15:17	E0522PHEL1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phenolics, Total	0.5000	0.4700	94	0.4500	90	80-120	4	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



**Quality Control - LCS/LCSD**

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

Date Received: 05/16/14  
 Work Order: 14-05-1351  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

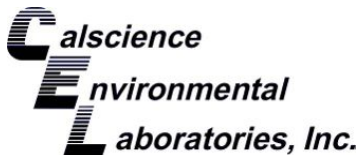
Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-282-196	LCS	Aqueous	GC 47	05/19/14	05/20/14 14:38	140519B14
099-15-282-196	LCSD	Aqueous	GC 47	05/19/14	05/20/14 14:55	140519B14

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4405	110	4467	112	75-117	1	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS

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

Date Received: 05/16/14  
 Work Order: 14-05-1351  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: DFSP Norwalk - Quarterly

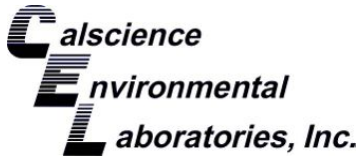
Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-768	LCS	Aqueous	GC 42	05/22/14	05/23/14 03:49	140522L054

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1733	87	78-120	



RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

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

Date Received: 05/16/14  
Work Order: 14-05-1351  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP Norwalk - Quarterly

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-14132</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS JJ</b>	<b>05/20/14</b>	<b>05/20/14 12:36</b>	<b>140520L016</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	53.52	107	80-120	73-127	
Carbon Tetrachloride		50.00	52.23	104	67-139	55-151	
Chlorobenzene		50.00	54.00	108	78-120	71-127	
1,2-Dibromoethane		50.00	53.49	107	80-120	73-127	
1,2-Dichlorobenzene		50.00	54.27	109	63-129	52-140	
1,2-Dichloroethane		50.00	55.28	111	70-130	60-140	
1,1-Dichloroethene		50.00	54.74	109	66-126	56-136	
Ethylbenzene		50.00	53.23	106	80-123	73-130	
Toluene		50.00	53.27	107	80-120	73-127	
Trichloroethene		50.00	52.63	105	80-122	73-129	
Vinyl Chloride		50.00	53.23	106	70-130	60-140	
p/m-Xylene		100.0	110.7	111	75-123	67-131	
o-Xylene		50.00	56.49	113	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	52.20	104	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	252.6	101	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	53.08	106	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	52.69	105	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	51.16	102	67-133	56-144	
Ethanol		500.0	526.6	105	42-168	21-189	

Total number of LCS compounds: 19

Total number of ME compounds: 0

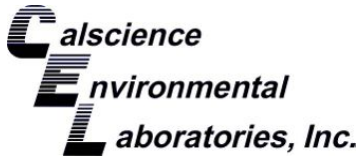
Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





## Sample Analysis Summary Report

Work Order: 14-05-1351

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 420.1	N/A	686	UV 8	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 5030C	797	GC 42	2
EPA 8260B	EPA 5030C	876	GC/MS JJ	2

  
Return to Contents

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

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

Work Order: 14-05-1351

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.



WORK ORDER #: **14-05-0350**

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: PARSONS

DATE: 05/16/14

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °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

Checked by: 804

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Checked by: 804

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Checked by: 142

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

Aqueous:  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  1PBna  500PB

250PB  250PBn  125PB  125PBz<sub>na</sub>  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Canister Other:  \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: 142

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 644

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: 644

Return to Contents



# CALSCIENCE

**WORK ORDER NUMBER: 14-05-2132**

*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. Clarke*

Approved for release on 06/02/2014 by:  
Ranjit Clarke  
Project Manager

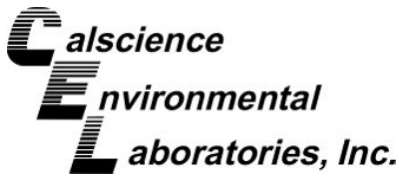
ResultLink ▶

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.





# Contents

---

Client Project Name: DFSP - Norwalk  
Work Order Number: 14-05-2132

1	Work Order Narrative. . . . .	3
2	Sample Summary. . . . .	4
3	Client Sample Data. . . . .	5
	3.1 EPA 8260B Volatile Organics (Aqueous). . . . .	5
4	Quality Control Sample Data. . . . .	17
	4.1 MS/MSD. . . . .	17
	4.2 LCS/LCSD. . . . .	19
5	Sample Analysis Summary. . . . .	20
6	Glossary of Terms and Qualifiers. . . . .	21
7	Chain of Custody/Sample Receipt Form. . . . .	22

**Work Order Narrative**

Work Order: 14-05-2132

Page 1 of 1

**Condition Upon Receipt:**

Samples were received under Chain of Custody (COC) on 05/29/14. They were assigned to Work Order 14-05-2132.

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 a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**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:**

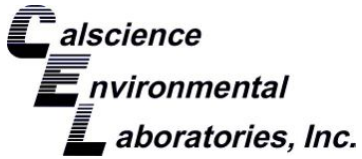
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

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.

**Subcontractor Information:**

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



## Sample Summary

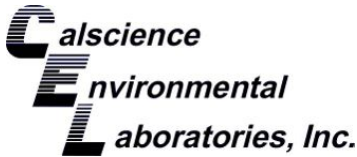
Client: Parsons Government Services, Inc. 100 West Walnut Street Pasadena, CA 91124-0002	Work Order: 14-05-2132 Project Name: DFSP - Norwalk PO Number: Date/Time Received: 05/29/14 16:20 Number of Containers: 9
--	---

Attn: Mary Lucas

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Surge Tank	14-05-2132-1	05/29/14 14:41	3	Aqueous
After MX-21	14-05-2132-2	05/29/14 14:37	3	Aqueous
Effluent	14-05-2132-3	05/29/14 14:35	3	Aqueous

Return to Contents





## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

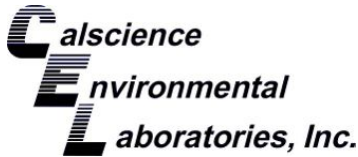
Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Surge Tank	14-05-2132-1-A	05/29/14 14:41	Aqueous	GC/MS JJ	05/29/14	05/29/14 23:54	140529L047

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	29	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	3.7	1.0	0.23	1.00	
sec-Butylbenzene	2.6	1.0	0.25	1.00	
tert-Butylbenzene	0.35	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.9	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

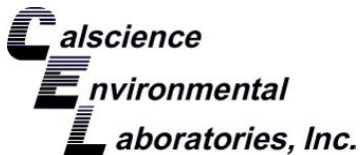
Project: DFSP - Norwalk

Page 2 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	30	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	8.5	1.0	0.58	1.00	
p-Isopropyltoluene	3.1	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	9.1	10	2.5	1.00	J
n-Propylbenzene	7.7	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	1.0	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	60	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	28	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	180	0.50	0.30	1.00	
o-Xylene	45	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
 Work Order: 14-05-2132  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

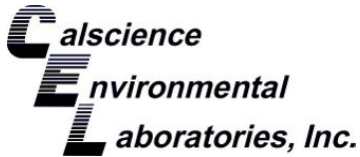
Project: DFSP - Norwalk

Page 3 of 12

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	117	75-135	
Toluene-d8	99	80-120	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

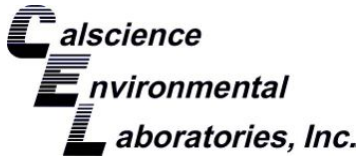
Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
After MX-21	14-05-2132-2-A	05/29/14 14:37	Aqueous	GC/MS JJ	05/29/14	05/29/14 23:23	140529L047

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	30	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	2.4	1.0	0.23	1.00	
sec-Butylbenzene	2.4	1.0	0.25	1.00	
tert-Butylbenzene	0.29	1.0	0.28	1.00	J
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	2.3	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

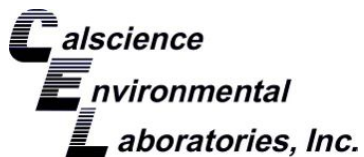
Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

Page 5 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	26	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	7.6	1.0	0.58	1.00	
p-Isopropyltoluene	2.8	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	8.5	10	2.5	1.00	J
n-Propylbenzene	5.6	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.96	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	56	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	24	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	150	0.50	0.30	1.00	
o-Xylene	44	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	1.0	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	5.4	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

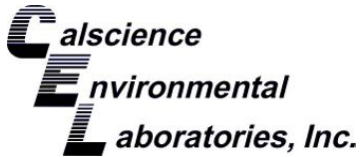
Project: DFSP - Norwalk

Page 6 of 12

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	111	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

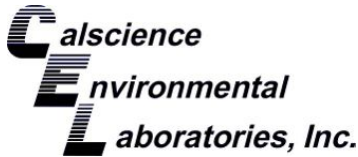
Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	14-05-2132-3-A	05/29/14 14:35	Aqueous	GC/MS JJ	05/29/14	05/29/14 22:53	140529L047

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

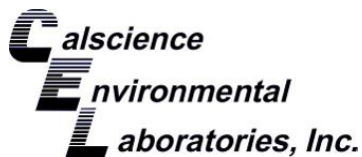
Page 8 of 12

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

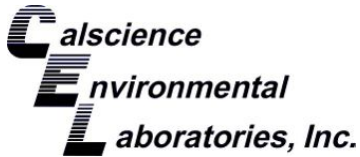
Project: DFSP - Norwalk

Page 9 of 12

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	106	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	100	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP - Norwalk

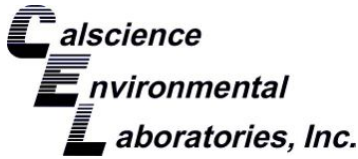
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-14243	N/A	Aqueous	GC/MS JJ	05/29/14	05/29/14 14:51	140529L047

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

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	5.0	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	5.0	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

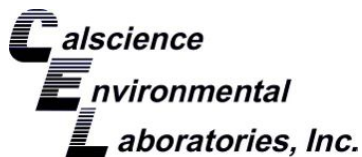
Project: DFSP - Norwalk

Page 11 of 12

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	0.50	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	5.0	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	0.50	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	0.50	0.30	1.00	
o-Xylene	ND	0.50	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

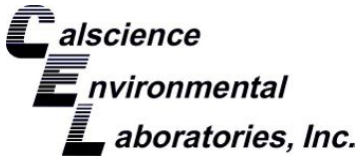
Project: DFSP - Norwalk

Page 12 of 12

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	105	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	100	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Quality Control - Spike/Spike Duplicate

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B

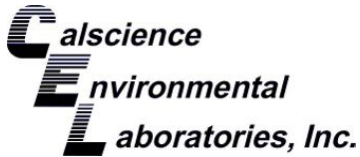
Project: DFSP - Norwalk

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-05-2041-1	Sample	Aqueous	GC/MS JJ	05/29/14	05/29/14 15:21	140529S005
14-05-2041-1	Matrix Spike	Aqueous	GC/MS JJ	05/29/14	05/29/14 15:51	140529S005
14-05-2041-1	Matrix Spike Duplicate	Aqueous	GC/MS JJ	05/29/14	05/29/14 16:22	140529S005

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	51.10	102	51.20	102	51-171	0	0-20	
Benzene	ND	50.00	50.41	101	48.98	98	80-120	3	0-20	
Bromobenzene	ND	50.00	51.24	102	50.34	101	54-150	2	0-20	
Bromochloromethane	ND	50.00	49.08	98	48.17	96	77-125	2	0-20	
Bromodichloromethane	ND	50.00	57.78	116	56.67	113	78-126	2	0-20	
Bromoform	ND	50.00	57.02	114	56.81	114	41-155	0	0-20	
Bromomethane	ND	50.00	34.41	69	35.39	71	30-152	3	0-20	
2-Butanone	ND	50.00	49.80	100	48.63	97	52-160	2	0-20	
n-Butylbenzene	ND	50.00	53.52	107	51.71	103	50-164	3	0-20	
sec-Butylbenzene	ND	50.00	53.28	107	51.71	103	49-157	3	0-20	
tert-Butylbenzene	ND	50.00	55.95	112	54.80	110	48-156	2	0-20	
Carbon Disulfide	ND	50.00	47.89	96	47.00	94	69-123	2	0-20	
Carbon Tetrachloride	ND	50.00	56.78	114	56.29	113	62-140	1	0-20	
Chlorobenzene	ND	50.00	50.90	102	50.11	100	52-148	2	0-20	
Chloroethane	ND	50.00	63.59	127	71.93	144	66-132	12	0-20	3
Chloroform	ND	50.00	53.83	108	52.56	105	80-122	2	0-20	
Chloromethane	ND	50.00	44.77	90	45.98	92	45-147	3	0-20	
2-Chlorotoluene	ND	50.00	55.99	112	54.97	110	51-153	2	0-20	
4-Chlorotoluene	ND	50.00	52.53	105	52.11	104	49-151	1	0-20	
Dibromochloromethane	ND	50.00	57.14	114	58.26	117	48-150	2	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	55.04	110	53.35	107	46-142	3	0-20	
1,2-Dibromoethane	ND	50.00	51.12	102	49.53	99	51-147	3	0-20	
Dibromomethane	ND	50.00	52.83	106	51.41	103	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	51.09	102	50.59	101	51-147	1	0-20	
1,3-Dichlorobenzene	ND	50.00	51.65	103	50.90	102	49-151	1	0-20	
1,4-Dichlorobenzene	ND	50.00	48.61	97	47.71	95	51-147	2	0-20	
Dichlorodifluoromethane	ND	50.00	54.97	110	54.01	108	30-170	2	0-20	
1,1-Dichloroethane	ND	50.00	49.04	98	48.66	97	67-127	1	0-20	
1,2-Dichloroethane	ND	50.00	59.57	119	57.36	115	73-133	4	0-20	
1,1-Dichloroethene	15.41	50.00	76.20	122	73.41	116	68-128	4	0-20	
c-1,2-Dichloroethene	13.58	50.00	64.42	102	62.94	99	77-125	2	0-20	
t-1,2-Dichloroethene	1.687	50.00	53.74	104	52.24	101	71-131	3	0-20	
1,2-Dichloropropane	ND	50.00	48.12	96	46.12	92	80-120	4	0-20	
1,3-Dichloropropane	ND	50.00	49.32	99	48.90	98	50-146	1	0-20	
2,2-Dichloropropane	ND	50.00	57.34	115	56.18	112	30-170	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Spike/Spike Duplicate

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

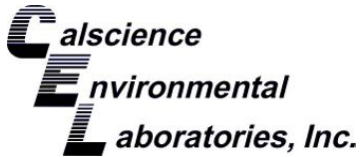
Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP - Norwalk

Page 2 of 2

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	52.44	105	51.88	104	75-129	1	0-20	
c-1,3-Dichloropropene	ND	50.00	52.53	105	51.49	103	80-124	2	0-20	
t-1,3-Dichloropropene	ND	50.00	60.18	120	59.87	120	47-143	1	0-20	
Ethylbenzene	ND	50.00	52.30	105	51.63	103	54-150	1	0-20	
2-Hexanone	ND	50.00	48.69	97	49.84	100	44-152	2	0-20	
Isopropylbenzene	ND	50.00	55.27	111	54.63	109	52-154	1	0-20	
p-Isopropyltoluene	ND	50.00	49.74	99	48.51	97	49-151	2	0-20	
Methylene Chloride	ND	50.00	48.02	96	48.19	96	73-127	0	0-20	
4-Methyl-2-Pentanone	ND	50.00	52.04	104	49.40	99	70-124	5	0-20	
Naphthalene	ND	50.00	50.91	102	49.97	100	39-153	2	0-20	
n-Propylbenzene	ND	50.00	53.97	108	53.08	106	49-157	2	0-20	
Styrene	ND	50.00	51.23	102	51.03	102	54-150	0	0-20	
1,1,1,2-Tetrachloroethane	ND	50.00	53.78	108	54.47	109	50-152	1	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	48.32	97	46.68	93	44-146	3	0-20	
Tetrachloroethene	1.021	50.00	40.32	79	39.52	77	34-170	2	0-20	
Toluene	ND	50.00	50.77	102	49.42	99	80-120	3	0-20	
1,2,3-Trichlorobenzene	ND	50.00	53.72	107	52.70	105	41-161	2	0-20	
1,2,4-Trichlorobenzene	ND	50.00	54.23	108	53.31	107	41-161	2	0-20	
1,1,1-Trichloroethane	ND	50.00	56.97	114	54.85	110	75-129	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	58.59	117	57.01	114	54-156	3	0-20	
1,1,2-Trichloroethane	ND	50.00	48.11	96	47.37	95	51-147	2	0-20	
Trichloroethene	19.82	50.00	69.74	100	67.15	95	80-120	4	0-20	
Trichlorofluoromethane	ND	50.00	57.49	115	55.89	112	61-145	3	0-20	
1,2,3-Trichloropropane	ND	50.00	52.97	106	52.60	105	51-147	1	0-20	
1,2,4-Trimethylbenzene	ND	50.00	53.27	107	52.11	104	56-152	2	0-20	
1,3,5-Trimethylbenzene	ND	50.00	56.68	113	55.54	111	56-158	2	0-20	
Vinyl Acetate	ND	50.00	57.68	115	54.32	109	35-167	6	0-20	
Vinyl Chloride	ND	50.00	55.63	111	57.31	115	67-133	3	0-20	
p/m-Xylene	ND	100.0	107.8	108	106.8	107	51-153	1	0-20	
o-Xylene	ND	50.00	55.52	111	54.87	110	51-153	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	51.92	104	51.52	103	64-130	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	258.1	103	252.7	101	76-124	2	0-20	
Diisopropyl Ether (DIPE)	ND	50.00	48.47	97	48.20	96	67-133	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.62	105	52.87	106	69-129	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.22	104	49.80	100	75-123	5	0-20	
Ethanol	ND	500.0	520.6	104	521.2	104	53-161	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - LCS

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

Date Received: 05/29/14  
Work Order: 14-05-2132  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: DFSP - Norwalk

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-14-001-14243</b>	<b>LCS</b>	<b>Aqueous</b>	<b>GC/MS JJ</b>	<b>05/29/14</b>	<b>05/29/14 13:15</b>	<b>140529L047</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	52.08	104	80-120	73-127	
Carbon Tetrachloride		50.00	58.99	118	67-139	55-151	
Chlorobenzene		50.00	52.52	105	78-120	71-127	
1,2-Dibromoethane		50.00	51.77	104	80-120	73-127	
1,2-Dichlorobenzene		50.00	52.50	105	63-129	52-140	
1,2-Dichloroethane		50.00	60.97	122	70-130	60-140	
1,1-Dichloroethene		50.00	61.44	123	66-126	56-136	
Ethylbenzene		50.00	53.79	108	80-123	73-130	
Toluene		50.00	52.43	105	80-120	73-127	
Trichloroethene		50.00	52.98	106	80-122	73-129	
Vinyl Chloride		50.00	60.37	121	70-130	60-140	
p/m-Xylene		100.0	111.3	111	75-123	67-131	
o-Xylene		50.00	57.38	115	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)		50.00	52.55	105	69-129	59-139	
Tert-Butyl Alcohol (TBA)		250.0	260.2	104	69-129	59-139	
Diisopropyl Ether (DIPE)		50.00	49.81	100	68-128	58-138	
Ethyl-t-Butyl Ether (ETBE)		50.00	52.31	105	63-135	51-147	
Tert-Amyl-Methyl Ether (TAME)		50.00	50.76	102	67-133	56-144	
Ethanol		500.0	573.9	115	42-168	21-189	

Total number of LCS compounds: 19

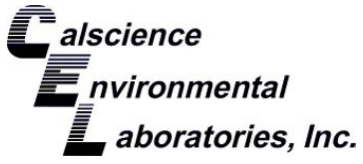
Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



## Sample Analysis Summary Report

Work Order: 14-05-2132

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8260B	EPA 5030C	316	GC/MS JJ	2

  
Return to Contents

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841



## Glossary of Terms and Qualifiers

Work Order: 14-05-2132

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
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.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

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.



**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: Parsons

DATE: 05/29/14

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °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    Checked by: IS

**CUSTODY SEALS INTACT:**

Cooler     \_\_\_\_\_     No (Not Intact)     Not Present     N/A    Checked by: IS

Sample     \_\_\_\_\_     No (Not Intact)     Not Present    Checked by: 778

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, <u>matrix</u> and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

**Solid:**  4ozCGJ     8ozCGJ     16ozCGJ     Sleeve (\_\_\_\_)     EnCores®     TerraCores®     \_\_\_\_\_

**Aqueous:**  VOA     VOAh     VOAna<sub>2</sub>     125AGB     125AGBh     125AGBp     1AGB     1AGBna<sub>2</sub>     1AGBs

500AGB     500AGJ     500AGJs     250AGB     250CGB     250CGBs     1PB     1PBna     500PB

250PB     250PBn     125PB     125PBz<sub>na</sub>     100PJ     100PJna<sub>2</sub>     \_\_\_\_\_     \_\_\_\_\_     \_\_\_\_\_

**Air:**  Tedlar®     Canister    **Other:**  \_\_\_\_\_    **Trip Blank Lot#:** \_\_\_\_\_    **Labeled/Checked by:** 778

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope    **Reviewed by:** 876

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered    **Scanned by:** 876

Return to Contents

**APPENDIX B**  
Laboratory ELAP Certification



RON CHAPMAN, MD, MPH  
Director & State Health Officer

State of California—Health and Human Services Agency  
California Department of Public Health



EDWARD G. BROWN JR.  
Governor

August 21, 2013

Steven L. Lane  
CalScience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92641-1427

Dear Steven L. Lane:

Certificate No. 03220CA

This is to advise you that the laboratory named above has been accredited under National Environmental Laboratory Accreditation Program (NELAP) as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.

The Fields of Accreditation for which this laboratory has been accredited are enclosed. Recognition of accreditation is subject to maintaining accreditation with the primary Accreditation Body. In addition, the laboratory shall comply with the National Environmental Laboratory Accreditation Conference (NELAC) Standards and all associated California Environmental Laboratory Accreditation Program Branch (ELAPB) regulations and statutes.

Please note that your laboratory is required to notify California ELAPB of any major changes in key accreditation criteria within 30 calendar days of the change. This written notification includes, but is not limited to, changes in ownership, location, key personnel, and major instrumentation (HSC 100847(b), (c), (d), and NELAC Standard Section 4.3.2). The certificate must be returned to California ELAPB upon loss of accredited status.

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories accredited by the State of California.

If you have any questions, please contact Rosalinda Lomboy at (818) 551-2014.

Sincerely,

David Mazzera, Ph.D., Assistant Division Chief  
Division of Drinking Water and Environmental Management

Enclosure



NELAP RECOGNIZED

**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH**  
**ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH**  
**NELAP Fields of Accreditation**



Calscience Environmental Laboratories, Inc.

7440 Lincoln Way  
 Garden Grove, CA 92841-1427  
 Phone: (714) 895-5494

Certificate No.: 03220CA  
 Renew Date: 9/30/2014

**101 - Microbiology of Drinking Water**

101.010	001	SM8210B	Heterotrophic Bacteria
101.011	001	SmPlate	Heterotrophic Bacteria
101.020	001	SM8221A,B	Total Coliform
101.021	001	SM8221E (MTFEC)	Fecal Coliform
101.050	001	SM8222A,B,C	Total Coliform
101.051	001	SM8221E (MFEC)	Fecal Coliform
101.060	002	SM8223	Total Coliform
101.060	003	SM8223	E. coli
101.070	002	Colisure	Total Coliform
101.070	003	Colisure	E. coli
101.120	001	SM8221A,B,C	Total Coliform (Enumeration)
101.130	001	SM8221E (MTFEC)	Fecal Coliform (Enumeration)
101.140	001	SM8222A,B,C	Total Coliform (Enumeration)
101.150	001	SM8223D	Fecal Coliform (Enumeration)
101.160	001	SM8223	Total Coliform (Enumeration)
101.200	001	SM8223B	E. coli (Enumeration)
101.210	001	SM8221B 1/SM8221F	E. coli (Enumeration)
101.220	001	SM8223B/SM8223G	E. coli (Enumeration)

**102 - Inorganic Chemistry of Drinking Water**

102.020	001	EPA 180.1	Turbidity
102.022	001	SM2130B	Turbidity
102.030	001	EPA 300.0	Bromide
102.030	003	EPA 300.0	Chloride
102.030	005	EPA 300.0	Fluoride
102.030	006	EPA 300.0	Nitrate
102.030	007	EPA 300.0	Nitrite
102.030	008	EPA 300.0	Phosphate, Ortho
102.030	010	EPA 300.0	Sulfate
102.040	001	EPA 300.1	Bromide
102.040	002	EPA 300.1	Chloride
102.040	003	EPA 300.1	Chlorate
102.040	004	EPA 300.1	Iodate
102.045	001	EPA 314.0	Perchlorate

102.047	001	EPA 331.0	Perchlorate
102.060	001	EPA 353.2	Nitrate-calc.
102.061	001	EPA 353.2	Nitrite
102.070	001	EPA 365.1	Phosphate, Ortho
102.100	001	SM23298	Alkalinity
102.120	001	SM23409	Hardness
102.121	001	SM2340C	Hardness
102.130	001	SM23108	Conductivity
102.140	001	SM2540C	Total Dissolved Solids
102.145	001	EPA 100.1	Total Dissolved Solids
102.190	001	SM500-CN E	Cyanide, Total
102.191	001	SM500-CN F	Cyanide, Total
102.192	001	SM500-CN G	Cyanide, amenable
102.200	001	SM500-F C	Fluoride
102.210	001	SM500-H- B	pH
102.212	001	EPA 100.1	pH
102.220	001	SM500-NO2 B	Nitrite
102.232	001	SM500-NO3 E	Nitrate
102.232	002	SM500-NO3 E	Nitrate
102.260	001	SM53108-2000	Total Organic Carbon
102.261	001	SM53108-2000	DOC
102.261	002	SM53108-2000	TOC/DOC
102.264	001	SM53100	Total Organic Carbon
102.265	001	SM53100	DOC
102.265	002	SM53100	TOC/DOC
102.270	001	SM5540C	Surfactants
102.520	001	EPA 200.7	Calcium
102.520	002	EPA 200.7	Magnesium
102.520	003	EPA 200.7	Potassium
102.520	004	EPA 200.7	Silica
102.520	005	EPA 200.7	Sodium
102.520	006	EPA 200.7	Hardness (calc.)
102.550	002	SM500-Cl F	Chlorine, Free, Combined, Total

**103 - Toxic Chemical Elements of Drinking Water**

103.130	001	EPA 200.7	Aluminum
103.130	003	EPA 200.7	Barium
103.130	004	EPA 200.7	Beryllium
103.130	005	EPA 200.7	Cadmium
103.130	007	EPA 200.7	Chromium
103.130	008	EPA 200.7	Copper
103.130	009	EPA 200.7	Iron

103.130	011	EPA 200.7	Manganese
103.130	012	EPA 200.7	Nickel
103.130	015	EPA 200.7	Silver
103.130	017	EPA 200.7	Zinc
103.130	018	EPA 200.7	Boron
103.140	001	EPA 200.8	Aluminum
103.140	002	EPA 200.8	Antimony
103.140	003	EPA 200.8	Arsenic
103.140	004	EPA 200.8	Barium
103.140	005	EPA 200.8	Beryllium
103.140	006	EPA 200.8	Cadmium
103.140	007	EPA 200.8	Chromium
103.140	008	EPA 200.8	Copper
103.140	009	EPA 200.8	Lead
103.140	010	EPA 200.8	Manganese
103.140	012	EPA 200.8	Nickel
103.140	013	EPA 200.8	Selenium
103.140	014	EPA 200.8	Silver
103.140	015	EPA 200.8	Thallium
103.140	016	EPA 200.8	Zinc
103.140	017	EPA 200.8	Boron
103.140	018	EPA 200.8	Vanadium
103.160	001	EPA 245.1	Mercury
103.310	001	EPA 218.8	Chromium (VI)

**104 - Volatile Organic Chemistry of Drinking Water**

104.030	001	EPA 504.1	1,2-Dibromoethane
104.030	002	EPA 504.1	1,2-Dibromo-3-chloropropane
104.040	000	EPA 524.2	Volatile Organic Compounds
104.040	001	EPA 524.2	Benzene
104.040	002	EPA 524.2	Bromobenzene
104.040	003	EPA 524.2	Bromochloroethane
104.040	006	EPA 524.2	Bromomethane
104.040	007	EPA 524.2	n-Butylbenzene
104.040	008	EPA 524.2	sec-Butylbenzene
104.040	009	EPA 524.2	tert-Butylbenzene
104.040	010	EPA 524.2	Carbon Tetrachloride
104.040	011	EPA 524.2	Chlorobenzene
104.040	012	EPA 524.2	Chloroethane
104.040	014	EPA 524.2	Chloromethane
104.040	015	EPA 524.2	2-Chlorotoluene
104.040	016	EPA 524.2	4-Chlorotoluene



104.040.018	EPA 524.2	Dibromomethane
104.040.019	EPA 524.2	1,3-Dichlorobenzene
104.040.020	EPA 524.2	1,2-Dichlorobenzene
104.040.021	EPA 524.2	1,4-Dichlorobenzene
104.040.022	EPA 524.2	Dichlorodifluoromethane
104.040.023	EPA 524.2	1,1-Dichloroethane
104.040.024	EPA 524.2	1,2-Dichloroethane
104.040.025	EPA 524.2	1,1-Dichloroethane
104.040.026	EPA 524.2	cis-1,2-Dichloroethane
104.040.027	EPA 524.2	trans-1,2-Dichloroethane
104.040.028	EPA 524.2	Dichloromethane
104.040.029	EPA 524.2	1,2-Dichloropropane
104.040.030	EPA 524.2	1,3-Dichloropropane
104.040.031	EPA 524.2	2,2-Dichloropropane
104.040.032	EPA 524.2	1,1-Dichloropropane
104.040.033	EPA 524.2	cis-1,3-Dichloropropane
104.040.034	EPA 524.2	trans-1,3-Dichloropropane
104.040.035	EPA 524.2	Ethylbenzene
104.040.036	EPA 524.2	Hexachlorobutadiene
104.040.037	EPA 524.2	Isopropylbenzene
104.040.038	EPA 524.2	4-Isopropyltoluene
104.040.039	EPA 524.2	Naphthalene
104.040.040	EPA 524.2	Nitrobenzene
104.040.041	EPA 524.2	n-Propylbenzene
104.040.042	EPA 524.2	Styrene
104.040.043	EPA 524.2	1,1,1-Tetrachloroethane
104.040.044	EPA 524.2	1,1,2-Tetrachloroethane
104.040.045	EPA 524.2	Tetrachloroethane
104.040.046	EPA 524.2	Toluene
104.040.047	EPA 524.2	1,2,3-Trichlorobenzene
104.040.048	EPA 524.2	1,2,4-Trichlorobenzene
104.040.049	EPA 524.2	1,1,1-Trichloroethane
104.040.050	EPA 524.2	1,1,2-Trichloroethane
104.040.051	EPA 524.2	Trichloroethane
104.040.052	EPA 524.2	Trichlorofluoromethane
104.040.053	EPA 524.2	1,2,3-Trichloropropane
104.040.054	EPA 524.2	1,2,4-Trimethylbenzene
104.040.055	EPA 524.2	1,3,5-Trimethylbenzene
104.040.056	EPA 524.2	Vinyl Chloride
104.040.057	EPA 524.2	Xylenes, Total
104.040.058	EPA 524.2	Hexachloroethane

104.045	001	EPA 524.2	Bromodichloromethane
104.045	002	EPA 524.2	Bromoform
104.045	003	EPA 524.2	Chloroform
104.045	004	EPA 524.2	Dibromochloromethane
104.045	005	EPA 524.2	Trihalomethanes
104.050	002	EPA 524.2	Methyl tert-butyl Ether (MTBE)
104.050	004	EPA 524.2	tert-Butyl Methyl Ether (TAME)
104.050	005	EPA 524.2	Ethyl tert-butyl Ether (ETBE)
104.050	006	EPA 524.2	Tetrachloroethane
104.050	011	EPA 524.2	Oxygenates

**105 - Semi-volatile Organic Chemistry of Drinking Water**

105.040	000	EPA 508	Chlorinated Pesticides
105.040	001	EPA 508	Aldrin
105.040	002	EPA 508	Dieldrin
105.040	003	EPA 508	Chlordane (total)
105.040	004	EPA 508	4,4'-DDD
105.040	005	EPA 508	4,4'-DDE
105.040	006	EPA 508	4,4'-DDE
105.040	007	EPA 508	Endrin
105.040	008	EPA 508	Heptachlor
105.040	009	EPA 508	Heptachlor Epoxide
105.040	012	EPA 508	Lindane
105.040	013	EPA 508	Methoxychlor
105.040	015	EPA 508	Toxaphene
105.040	016	EPA 508	PCBs as Aroclors (screen)
105.060	001	EPA 508A	PCBs as Decachlorobiphenyl
105.070	001	EPA 515.1	Bentazon
105.070	002	EPA 515.1	2,4-D
105.070	003	EPA 515.1	Dallepon
105.070	004	EPA 515.1	Dicamba
105.070	005	EPA 515.1	Dimeth
105.070	006	EPA 515.1	Pentachlorophenol
105.070	007	EPA 515.1	Picloram
105.070	008	EPA 515.1	2,4,5-TP
105.070	009	EPA 515.1	Chlorinated Acids
105.070	010	EPA 515.1	Chlorophenoxy Herbicides
105.090	001	EPA 525.2	Alachlor
105.090	003	EPA 525.2	Atrazine
105.090	004	EPA 525.2	Benzo(a)pyrene
105.090	005	EPA 525.2	Butachlor
105.090	006	EPA 525.2	Di(2-ethylhexyl) Adipate

105.090	009	EPA 525.2	Di(2-ethylhexyl) Phthalate
105.090	016	EPA 525.2	Hexachlorobenzene
105.090	017	EPA 525.2	Hexachlorocyclopentadiene
105.090	022	EPA 525.3	Molinate
105.090	023	EPA 525.2	Pentachlorophenol
105.090	024	EPA 525.2	Propachlor
105.090	029	EPA 525.2	Polynuclear Aromatic Hydrocarbons
105.090	030	EPA 525.2	Adipates
105.090	031	EPA 525.2	Phthalates
105.090	032	EPA 525.2	Other Extractables
105.090	034	EPA 525.2	Pesticides
105.140	001	EPA 548.1	Endothal

**107 - Microbiology of Wastewater**

107.010	001	SM9215B	Heterotrophic Bacteria
107.020	001	SM9218	Total Coliform
107.030	001	SM9218	Total Coliform with Chlorine Present
107.040	001	SM921C,E (MTFEC)	Fecal Coliform
107.050	001	SM921E	Fecal Coliform with Chlorine Present
107.060	001	SM922B	Total Coliform
107.070	001	SM922B + 9.5c	Total Coliform with Chlorine Present
107.080	001	SM922D	Fecal Coliform
107.090	001	SM922D	Fecal Coliform with Chlorine Present
107.100	001	SM9230B	Fecal Streptococci
107.100	002	SM9230B	Enterococci
107.110	001	SM9230C (MFME)	Fecal Streptococci
107.110	002	SM9230C (MFME)	Enterococci
107.242	001	Enterolert	Enterococci
107.245	001	SM923	E. coli

**108 - Inorganic Chemistry of Wastewater**

108.020	001	EPA 120.1	Conductivity
108.090	001	EPA 180.4	Residue, Volatile
108.110	001	EPA 180.1	Turbidity
108.112	001	EPA 200.7	Boron
108.112	002	EPA 200.7	Calcium
108.112	003	EPA 200.7	Hardness (calc.)
108.112	004	EPA 200.7	Magnesium
108.112	005	EPA 200.7	Potassium
108.112	006	EPA 200.7	Silica
108.112	007	EPA 200.7	Sodium
108.113	001	EPA 200.8	Boron
108.113	002	EPA 200.8	Calcium

108.113	003	EPA 200.8	Magnesium
108.113	004	EPA 200.8	Potassium
108.113	005	EPA 200.8	Silica
108.113	006	EPA 200.8	Sodium
108.120	001	EPA 300.0	Bromide
108.120	002	EPA 300.0	Chloride
108.120	003	EPA 300.0	Fluoride
108.120	004	EPA 300.0	Nitrate
108.120	005	EPA 300.0	Nitrite
108.120	006	EPA 300.0	Nitrate-nitrite
108.120	007	EPA 300.0	Phosphate, Ortho
108.120	008	EPA 300.0	Sulfate
108.121	001	EPA 300.1	Bromide
108.200	001	EPA 350.1	Ammonia
108.211	001	EPA 351.2	Kjeldahl Nitrogen
108.260	001	EPA 365.1	Phosphate, Ortho
108.261	001	EPA 365.1	Phosphorus, Total
108.264	001	EPA 365.3	Phosphate, Ortho
108.265	001	EPA 365.3	Phosphorus, Total
108.268	001	EPA 365.4	Phosphorus, Total
108.323	001	EPA 410.4	Chemical Oxygen Demand
108.350	001	EPA 415.1	Total Recoverable Petroleum Hydrocarbons
108.360	001	EPA 420.1	Phenols, Total
108.381	001	EPA 900A	Oil and Grease
108.390	001	SM210B	Turbidity
108.400	001	SM210B	Acidity
108.410	001	SM230B	Alkalinity
108.420	001	SM234B	Hardness (calc.)
108.421	001	SM234C	Hardness
108.430	001	SM250B	Conductivity
108.440	001	SM254B	Residue, Total
108.441	001	SM254C	Residue, Filterable
108.442	001	SM254D	Residue, Non-Filterable
108.443	001	SM254F	Residue, Settleable
108.451	001	SM4500-Cl-C	Chloride
108.464	001	SM4500-Cl-F	Chlorine, Total
108.472	001	SM4500-CN-E	Cyanide, Total
108.473	001	SM4500-CN-G	Cyanide, amenable
108.474	001	SM4500-CN-F	Cyanide, Total
108.480	001	SM4500-F-C	Fluoride
108.490	001	SM4500-H-B	pH

108.491	001	SM500-NH3 C (189)	Ammonia
108.492	001	SM500-NH3 C (189/209)	Ammonia
108.492	002	SM500-NH3 C (189/209)	Kjeldahl Nitrogen
108.494	001	SM500-NH3 F or G (189)	Ammonia
108.510	001	SM500-NO2 B	Nitrite
108.520	001	SM500-NO3 E	Nitrate-nitrite
108.520	002	SM500-NO3 E	Nitrite
108.531	001	SM500-O G	Dissolved Oxygen
108.540	001	SM500-P E	Phosphate, Ortho
108.560	001	SM500-SO3 B	Sulfite
108.580	001	SM500-S- D	Sulfide
108.590	001	SM510B	Biochemical Oxygen Demand
108.591	001	SM510B	Carbonaceous BOD
108.602	001	SM520D	Chemical Oxygen Demand
108.610	001	SM5310B-2000	Total Organic Carbon
108.612	001	SM5310D	Total Organic Carbon
108.630	001	SM5320B (209)	Oil and Grease
108.640	001	SM540C	Surfactants
108.700	001	ASTM D516-96	Sulfate

**109 - Toxic Chemical Elements of Wastewater**

109.010	001	EPA 200.7	Aluminum
109.010	002	EPA 200.7	Antimony
109.010	003	EPA 200.7	Arsenic
109.010	004	EPA 200.7	Barium
109.010	005	EPA 200.7	Beryllium
109.010	007	EPA 200.7	Cadmium
109.010	008	EPA 200.7	Chromium
109.010	010	EPA 200.7	Cobalt
109.010	011	EPA 200.7	Copper
109.010	012	EPA 200.7	Iron
109.010	013	EPA 200.7	Lead
109.010	015	EPA 200.7	Manganese
109.010	016	EPA 200.7	Molybdenum
109.010	017	EPA 200.7	Nickel
109.010	019	EPA 200.7	Selenium
109.010	021	EPA 200.7	Silver
109.010	023	EPA 200.7	Thallium
109.010	024	EPA 200.7	Tin
109.010	026	EPA 200.7	Vanadium
109.010	027	EPA 200.7	Zinc
109.020	001	EPA 200.8	Aluminum

109.020	002	EPA 200.8	Antimony
109.020	003	EPA 200.8	Arsenic
109.020	004	EPA 200.8	Barium
109.020	005	EPA 200.8	Beryllium
109.020	006	EPA 200.8	Cadmium
109.020	007	EPA 200.8	Chromium
109.020	008	EPA 200.8	Cobalt
109.020	009	EPA 200.8	Copper
109.020	010	EPA 200.8	Lead
109.020	011	EPA 200.8	Manganese
109.020	012	EPA 200.8	Molybdenum
109.020	013	EPA 200.8	Nickel
109.020	014	EPA 200.8	Selenium
109.020	015	EPA 200.8	Silver
109.020	016	EPA 200.8	Thallium
109.020	017	EPA 200.8	Vanadium
109.020	018	EPA 200.8	Zinc
109.020	020	EPA 200.8	Gold
109.020	021	EPA 200.8	Iron
109.020	022	EPA 200.8	Ta
109.020	023	EPA 200.8	Titanium
109.104	001	EPA 215.6	Chromium (VI)
109.190	001	EPA 245.1	Mercury
109.361	001	EPA 1631E	Mercury

**110 - Volatile Organic Chemistry of Wastewater**

110.020	000	EPA 802	Aromatic Volatiles
110.020	001	EPA 802	Benzene
110.020	002	EPA 802	Chlorobenzene
110.020	003	EPA 802	1,2-Dichlorobenzene
110.020	004	EPA 802	1,3-Dichlorobenzene
110.020	005	EPA 802	1,4-Dichlorobenzene
110.020	006	EPA 802	Ethylbenzene
110.020	007	EPA 802	Toluene
110.040	001	EPA 624	Benzene
110.040	002	EPA 624	Bromodichloroethane
110.040	003	EPA 624	Bromobenzene
110.040	004	EPA 624	Bromoethane
110.040	005	EPA 624	Carbon Tetrachloride
110.040	006	EPA 624	Chlorobenzene
110.040	007	EPA 624	Chloroethane
110.040	008	EPA 624	2-Chloroethyl Vinyl Ether

110.040	009	EPA 624	Chloroform
110.040	010	EPA 624	Chloroethane
110.040	011	EPA 624	Dibromochloromethane
110.040	012	EPA 624	1,2-Dichlorobenzene
110.040	013	EPA 624	1,3-Dichlorobenzene
110.040	014	EPA 624	1,4-Dichlorobenzene
110.040	015	EPA 624	1,1-Dichloroethane
110.040	016	EPA 624	1,2-Dichloroethane
110.040	017	EPA 624	1,1-Dichloroethene
110.040	018	EPA 624	trans-1,2-Dichloroethene
110.040	019	EPA 624	1,2-Dichloropropane
110.040	020	EPA 624	cis-1,3-Dichloropropene
110.040	021	EPA 624	trans-1,3-Dichloropropene
110.040	022	EPA 624	Ethylbenzene
110.040	023	EPA 624	Methylene Chloride
110.040	024	EPA 624	1,1,2-Tetrachloroethane
110.040	025	EPA 624	Tetrachloroethene
110.040	026	EPA 624	Toluene
110.040	027	EPA 624	1,1,1-Trichloroethane
110.040	028	EPA 624	1,1,2-Trichloroethane
110.040	029	EPA 624	Trichloroethene
110.040	030	EPA 624	Trichlorofluoromethane
110.040	031	EPA 624	Vinyl Chloride
110.040	040	EPA 624	Halogenated Hydrocarbons
110.040	041	EPA 624	Aromatic Compounds
110.040	042	EPA 624	Oxygenates
110.040	043	EPA 624	Other Volatile Organics

**111 - Semi-volatile Organic Chemistry of Wastewater**

111.060	000	EPA 610	Polynuclear Aromatics
111.060	001	EPA 610	Acenaphthene
111.060	002	EPA 610	Acenaphthylene
111.060	003	EPA 610	Anthracene
111.060	004	EPA 610	Benzo(a)anthracene
111.060	005	EPA 610	Benzo(a)pyrene
111.060	006	EPA 610	Benzo(b)fluoranthene
111.060	007	EPA 610	Benzo(k)fluoranthene
111.060	008	EPA 610	Benzo(g,h,i)perylene
111.060	009	EPA 610	Chrysene
111.060	010	EPA 610	Dibenz(a,h)anthracene
111.060	011	EPA 610	Fluoranthene
111.060	012	EPA 610	Fluorene

111.060	013	EPA 810	Indeno[1,2,3-c,d]pyrene
111.060	014	EPA 810	Naphthalene
111.060	015	EPA 810	Phenanthrene
111.060	016	EPA 810	Pyrene
111.100	001	EPA 825	Acenaphthene
111.100	002	EPA 825	Acenaphthylene
111.100	003	EPA 825	Anthracene
111.100	004	EPA 825	Benzdne
111.100	005	EPA 825	Benzo[ <i>a</i> ]anthracene
111.100	006	EPA 825	Benzo[ <i>b</i> ]fluoranthene
111.100	007	EPA 825	Benzo[ <i>k</i> ]fluoranthene
111.100	008	EPA 825	Benzo[ <i>g,h</i> ]perylene
111.100	009	EPA 825	Benzo[ <i>s</i> ]pyrene
111.100	010	EPA 825	Benzyl Butyl Phthalate
111.100	011	EPA 825	Di[2-chloroethoxy]methane
111.100	012	EPA 825	Di[2-chloroethyl] Ether
111.100	013	EPA 825	Di[2-chloroisopropyl] Ether
111.100	014	EPA 825	Di[2-ethylhexyl] Phthalate
111.100	015	EPA 825	4-Bromophenyl Phenyl Ether
111.100	016	EPA 825	4-Chloro-3-methylphenol
111.100	017	EPA 825	2-Chloronaphthalene
111.100	018	EPA 825	2-Chlorophenol
111.100	019	EPA 825	4-Chlorophenyl Phenyl Ether
111.100	020	EPA 825	Chrysene
111.100	021	EPA 825	Dibenzo[ <i>a,h</i> ]anthracene
111.100	025	EPA 825	3,7-Dichlorobenzoflne
111.100	026	EPA 825	2,4-Dichlorophenol
111.100	027	EPA 825	Diethyl Phthalate
111.100	028	EPA 825	2,4-Dimethylphenol
111.100	029	EPA 825	Dimethyl Phthalate
111.100	030	EPA 825	Di-n-butyl phthalate
111.100	031	EPA 825	Di-n-octyl phthalate
111.100	032	EPA 825	2,4-Dinitrophenol
111.100	033	EPA 825	2,4-Dinitrotoluene
111.100	034	EPA 825	2,6-Dinitrotoluene
111.100	035	EPA 825	Fluoranthene
111.100	036	EPA 825	Fluorene
111.100	037	EPA 825	Hexachlorobenzene
111.100	038	EPA 825	Hexachlorobutadiene
111.100	039	EPA 825	Hexachlorocyclopentadiene
111.100	040	EPA 825	Hexachloroethane



111.100	041	EPA 825	Indeno(1,2,3-c,d)pyrene
111.100	042	EPA 825	Isophone
111.100	043	EPA 825	2-Methyl-4,6-dinitrophenol
111.100	044	EPA 825	Naphthalene
111.100	045	EPA 825	Nitrobenzene
111.100	046	EPA 825	2-Nitrophenol
111.100	047	EPA 825	4-Nitrophenol
111.100	048	EPA 825	N-nitrosodimethylaniline
111.100	049	EPA 825	N-nitroso-d-n-propylamine
111.100	050	EPA 825	N-nitrosodiphenylamine
111.100	051	EPA 825	Pentachlorophenol
111.100	052	EPA 825	Phenanthrene
111.100	053	EPA 825	Phenol
111.100	054	EPA 825	Pyrene
111.100	055	EPA 825	1,2,4-Trichlorobenzene
111.100	056	EPA 825	2,4,6-Trichlorophenol
111.101	032	EPA 825	Polynuclear Aromatic Hydrocarbons
111.101	033	EPA 825	Aspates
111.101	034	EPA 825	Phthalates
111.101	036	EPA 825	Other Esters/acids
111.120	000	EPA 1825	Semi-volatile Organics
111.170	001	EPA 608	Aldrin
111.170	002	EPA 608	a-BHC
111.170	003	EPA 608	b-BHC
111.170	004	EPA 608	c-BHC
111.170	005	EPA 608	g-BHC (Lindane)
111.170	006	EPA 608	Chlordane
111.170	007	EPA 608	4-F-OCD
111.170	008	EPA 608	4-F-OCE
111.170	009	EPA 608	4-F-OCT
111.170	010	EPA 608	Dieldrin
111.170	011	EPA 608	Endosulfan I
111.170	012	EPA 608	Endosulfan II
111.170	013	EPA 608	Endosulfan Sulfate
111.170	014	EPA 608	Endrin
111.170	015	EPA 608	Endrin Aldehyde
111.170	016	EPA 608	Heptachlor
111.170	017	EPA 608	Heptachlor Epoxide
111.170	018	EPA 608	Toxaphene
111.170	019	EPA 608	PCB-1015
111.170	020	EPA 608	PCB-1221

111.170	021	EPA 608	PCB-1232
111.170	022	EPA 608	PCB-1240
111.170	023	EPA 608	PCB-1248
111.170	024	EPA 608	PCB-1254
111.170	025	EPA 608	PCB-1260
111.170	030	EPA 608	Organochlorine Pesticides
111.170	031	EPA 608	PCBs
111.270	001	EPA 413.1	Oil and Grease
111.272	001	SM6208 (208)	Oil and Grease
111.273	001	EPA 1664A	Oil and Grease

**114 - Inorganic Chemistry of Hazardous Waste**

114.010	001	EPA 6010B	Antimony
114.010	002	EPA 6010B	Arsenic
114.010	003	EPA 6010B	Barium
114.010	004	EPA 6010B	Beryllium
114.010	005	EPA 6010B	Cadmium
114.010	006	EPA 6010B	Chromium
114.010	007	EPA 6010B	Cobalt
114.010	008	EPA 6010B	Copper
114.010	009	EPA 6010B	Lead
114.010	010	EPA 6010B	Molybdenum
114.010	011	EPA 6010B	Nickel
114.010	012	EPA 6010B	Selenium
114.010	013	EPA 6010B	Silver
114.010	014	EPA 6010B	Thallium
114.010	015	EPA 6010B	Vanadium
114.010	016	EPA 6010B	Zinc
114.020	001	EPA 6020	Antimony
114.020	002	EPA 6020	Arsenic
114.020	003	EPA 6020	Barium
114.020	004	EPA 6020	Beryllium
114.020	005	EPA 6020	Cadmium
114.020	006	EPA 6020	Chromium
114.020	007	EPA 6020	Cobalt
114.020	008	EPA 6020	Copper
114.020	009	EPA 6020	Lead
114.020	010	EPA 6020	Molybdenum
114.020	011	EPA 6020	Nickel
114.020	012	EPA 6020	Selenium
114.020	013	EPA 6020	Silver
114.020	014	EPA 6020	Thallium

114.020	015	EPA 8020	Vanadium
114.020	016	EPA 8020	Zinc
114.103	001	EPA 7195A	Chromium (VI)
114.106	001	EPA 7196	Chromium (VI)
114.130	001	EPA 7420	Lead
114.140	001	EPA 7470A	Mercury
114.141	001	EPA 7471A	Mercury
114.222	001	EPA 9014	Cyanide
114.230	001	EPA 9034	Sulfides, Total
114.240	001	EPA 9040B	Corrosivity - pH Determination
114.241	001	EPA 9040C	Corrosivity - pH Determination
114.250	001	EPA 9056	Fluoride
114.270	001	EPA 9214	Fluoride

**115 - Extraction Test of Hazardous Waste**

115.020	001	EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
115.030	001	CCR Chapter 11, Article 5, Appendix B	Waste Extraction Test (WET)
115.040	001	EPA 1312	Synthetic Precipitation Leaching Procedure (SPLP)

**116 - Volatile Organic Chemistry of Hazardous Waste**

116.020	009	EPA 8015B	Ethanol
116.020	013	EPA 8015B	Isobutyl Alcohol
116.020	014	EPA 8015B	Isopropyl Alcohol
116.020	015	EPA 8015B	Methanol
116.020	031	EPA 8015B	Ethanol and Methanol
116.030	001	EPA 8015B	Gasoline-range Organics
116.040	002	EPA 8021B	Benzene
116.040	003	EPA 8021B	1,2-Dichlorobenzene
116.040	004	EPA 8021B	1,3-Dichlorobenzene
116.040	005	EPA 8021B	1,4-Dichlorobenzene
116.040	009	EPA 8021B	Ethylbenzene
116.040	041	EPA 8021B	Methyl tert-butyl Ether (MTBE)
116.040	047	EPA 8021B	Toluene
116.040	006	EPA 8021B	Eyenes, Total
116.040	062	EPA 8021B	BTEX
116.080	000	EPA 8200B	Volatile Organic Compounds
116.080	001	EPA 8200B	Acetone
116.080	002	EPA 8200B	Acetonitrile
116.080	003	EPA 8200B	Acrolein
116.080	004	EPA 8200B	Acrylonitrile
116.080	005	EPA 8200B	Allyl Alcohol
116.080	006	EPA 8200B	Allyl Chloride
116.080	007	EPA 8200B	Benzene

116.080	008	EPA 8260B	Benzyl Chloride
116.080	009	EPA 8260B	Bromoacetone
116.080	010	EPA 8260B	Bromochloromethane
116.080	011	EPA 8260B	Bromodichloromethane
116.080	012	EPA 8260B	Bromoform
116.080	013	EPA 8260B	Bromomethane
116.080	014	EPA 8260B	n-Butyl Alcohol
116.080	015	EPA 8260B	Carbon Dioxide
116.080	016	EPA 8260B	Carbon Tetrachloride
116.080	017	EPA 8260B	Chloral Hydrate
116.080	018	EPA 8260B	Chlorobenzene
116.080	019	EPA 8260B	Chloroethane
116.080	020	EPA 8260B	2-Chloroethyl Vinyl Ether
116.080	021	EPA 8260B	Chloroform
116.080	022	EPA 8260B	Chloromethane
116.080	023	EPA 8260B	Chloroprene
116.080	024	EPA 8260B	3-Chloropropionitrile
116.080	025	EPA 8260B	Crotonaldehyde
116.080	026	EPA 8260B	Dibromodichloromethane
116.080	027	EPA 8260B	Dibromodichloropropane
116.080	028	EPA 8260B	1,2-Dibromoethane
116.080	029	EPA 8260B	Dibromofluoromethane
116.080	030	EPA 8260B	Dibromomethane
116.080	031	EPA 8260B	1,2-Dichlorobenzene
116.080	032	EPA 8260B	1,3-Dichlorobenzene
116.080	033	EPA 8260B	1,4-Dichlorobenzene
116.080	034	EPA 8260B	cis-1,4-Dichloro-2-butene
116.080	035	EPA 8260B	trans-1,4-Dichloro-2-butene
116.080	036	EPA 8260B	Dichlorodifluoromethane
116.080	037	EPA 8260B	1,1-Dichloroethane
116.080	038	EPA 8260B	1,2-Dichloroethane
116.080	039	EPA 8260B	1,1-Dichloroethane
116.080	040	EPA 8260B	trans-1,2-Dichloroethane
116.080	041	EPA 8260B	cis-1,2-Dichloroethane
116.080	042	EPA 8260B	1,2-Dichloropropane
116.080	043	EPA 8260B	1,3-Dichloropropane
116.080	044	EPA 8260B	2,2-Dichloropropane
116.080	045	EPA 8260B	1,1-Dichloropropene
116.080	046	EPA 8260B	cis-1,3-Dichloropropene
116.080	047	EPA 8260B	trans-1,3-Dichloropropene
116.080	048	EPA 8260B	1,3-Dichloro-2-propanol

116.080	049	EPA 8260B	1,2,3,4-Dioxycyclohexane
116.080	050	EPA 8260B	1,4-Dioxane
116.080	051	EPA 8260B	Epichlorohydrin
116.080	052	EPA 8260B	Ethyl Acetate
116.080	053	EPA 8260B	Ethylbenzene
116.080	054	EPA 8260B	Ethylene Oxide
116.080	055	EPA 8260B	Ethyl Methacrylate
116.080	056	EPA 8260B	Hexachlorobutadiene
116.080	057	EPA 8260B	Hexachloroethane
116.080	058	EPA 8260B	2-Hexanone (MIBK)
116.080	059	EPA 8260B	Isobutane
116.080	060	EPA 8260B	Isobutyl Alcohol
116.080	061	EPA 8260B	Malononitrile
116.080	062	EPA 8260B	Methacrylonitrile
116.080	063	EPA 8260B	Methanol
116.080	064	EPA 8260B	Methyl tert-butyl Ether (MTBE)
116.080	065	EPA 8260B	Methylene Chloride
116.080	066	EPA 8260B	Methyl Ethyl Ketone
116.080	067	EPA 8260B	Methyl Methacrylate
116.080	068	EPA 8260B	4-Methyl-2-pentanone (MIBK)
116.080	069	EPA 8260B	Naphthalene
116.080	070	EPA 8260B	Nitrobenzene
116.080	071	EPA 8260B	2-Nitropropane
116.080	072	EPA 8260B	N-nitroso-d-n-butylamine
116.080	073	EPA 8260B	Paraldehyde
116.080	074	EPA 8260B	Pentachloroethane
116.080	075	EPA 8260B	Pentafluorobenzene
116.080	076	EPA 8260B	2-Picoline
116.080	077	EPA 8260B	Propargyl Alcohol
116.080	078	EPA 8260B	Propionitrile
116.080	079	EPA 8260B	N-propylamine
116.080	080	EPA 8260B	Pyridine
116.080	081	EPA 8260B	1,1,1,2-Tetrachloroethane
116.080	082	EPA 8260B	1,1,2,2-Tetrachloroethane
116.080	083	EPA 8260B	Tetrachloroethane
116.080	084	EPA 8260B	Toluene
116.080	085	EPA 8260B	o-Toluidine
116.080	086	EPA 8260B	1,2,3-Trichlorobenzene
116.080	087	EPA 8260B	1,2,4-Trichlorobenzene
116.080	088	EPA 8260B	1,1,1-Trichloroethane
116.080	089	EPA 8260B	1,1,2-Trichloroethane

116.080	090	EPA 8260B	Trichloroethene
116.080	091	EPA 8260B	Trichlorofluoromethane
116.080	092	EPA 8260B	1,2,3-Trichloropropane
116.080	093	EPA 8260B	Vinyl Acetate
116.080	094	EPA 8260B	Vinyl Chloride
116.080	095	EPA 8260B	Xylenes, Total
116.080	096	EPA 8260B	tert-Butyl Methyl Ether (TAME)
116.080	097	EPA 8260B	tert-Butyl Alcohol (TBA)
116.080	098	EPA 8260B	Ethyl tert-butyl Ether (ETBE)
116.080	099	EPA 8260B	Bromobenzene
116.080	100	EPA 8260B	n-Butylbenzene
116.080	101	EPA 8260B	sec-Butylbenzene
116.080	102	EPA 8260B	tert-Butylbenzene
116.080	103	EPA 8260B	2-Chlorotoluene
116.080	104	EPA 8260B	4-Chlorotoluene
116.080	105	EPA 8260B	Isopropylbenzene
116.080	106	EPA 8260B	n-propylbenzene
116.080	107	EPA 8260B	Styrene
116.080	108	EPA 8260B	1,2,4-Trimethylbenzene
116.080	109	EPA 8260B	1,3,5-Trimethylbenzene
116.080	120	EPA 8260B	Oxygenates
116.100	001	LUFT GCMS	Total Petroleum Hydrocarbons - Gasoline
116.100	002	LUFT GCMS	Benzene
116.100	003	LUFT GCMS	Toluene
116.100	004	LUFT GCMS	Xylenes
116.100	005	LUFT GCMS	Methyl tert-butyl Ether (MTBE)
116.100	010	LUFT GCMS	BTEX and MTBE
116.110	001	LUFT	Total Petroleum Hydrocarbons - Gasoline

**117 - Semi-volatile Organic Chemistry of Hazardous Waste**

117.010	001	EPA 8015B	Diesel-range Total Petroleum Hydrocarbons
117.016	001	LUFT	Diesel-range Total Petroleum Hydrocarbons
117.017	001	EPA 418.1	TRPH Screening
117.110	000	EPA 8270C	Extractable Organics
117.110	001	EPA 8270C	Acenaphthene
117.110	002	EPA 8270C	Acenaphthylene
117.110	003	EPA 8270C	Acetophenone
117.110	004	EPA 8270C	2-Acetylanthracene
117.110	005	EPA 8270C	1-Acetyl-2-fluorene
117.110	006	EPA 8270C	4-Aminobiphenyl
117.110	007	EPA 8270C	Aniline
117.110	008	EPA 8270C	Anthracene

117.110	009	EPA 8270C	Azamb
117.110	010	EPA 8270C	Benofine
117.110	011	EPA 8270C	Benzo(a)anthracene
117.110	012	EPA 8270C	Benzo(b)fluoranthene
117.110	013	EPA 8270C	Benzo(k)fluoranthene
117.110	014	EPA 8270C	Benzo(g,h)perylene
117.110	015	EPA 8270C	Benzo(a)pyrene
117.110	016	EPA 8270C	Benzoic Acid
117.110	017	EPA 8270C	p-Benzquinone
117.110	018	EPA 8270C	Benzyl Alcohol
117.110	019	EPA 8270C	Benzyl Butyl Phthalate
117.110	020	EPA 8270C	bis(2-chloroethoxy)methane
117.110	021	EPA 8270C	bis(2-chloroethyl) Ether
117.110	022	EPA 8270C	Bis(2-chloroisopropyl) Ether
117.110	023	EPA 8270C	Di(2-ethylhexyl) Phthalate
117.110	024	EPA 8270C	4-Bromophenyl Phenyl Ether
117.110	025	EPA 8270C	Carbazole
117.110	026	EPA 8270C	4-Chloroaniline
117.110	027	EPA 8270C	4-Chloro-3-methylphenol
117.110	028	EPA 8270C	1-Chloronaphthalene
117.110	029	EPA 8270C	3-Chloronaphthalene
117.110	030	EPA 8270C	3-Chlorophenol
117.110	031	EPA 8270C	4-Chlorophenyl Phenyl Ether
117.110	032	EPA 8270C	Chrysene
117.110	033	EPA 8270C	3-Cyclohexyl-4,5-dibromophenol
117.110	034	EPA 8270C	2,4-Diaminotoluene
117.110	035	EPA 8270C	Dibenz(a,h)quinoline
117.110	036	EPA 8270C	Dibenz(a,h)anthracene
117.110	037	EPA 8270C	Dibenzofuran
117.110	038	EPA 8270C	Dibenz(a,l)pyrene
117.110	039	EPA 8270C	1,3-Dichlorobenzene
117.110	040	EPA 8270C	1,3-Dichlorobenzene
117.110	041	EPA 8270C	1,4-Dichlorobenzene
117.110	042	EPA 8270C	3,3'-Dichlorobenzidine
117.110	043	EPA 8270C	2,4-Dichlorophenol
117.110	044	EPA 8270C	2,6-Dichlorophenol
117.110	045	EPA 8270C	Diethyl Phthalate
117.110	046	EPA 8270C	Diethylbestrol
117.110	047	EPA 8270C	Diethyl Sulfate
117.110	048	EPA 8270C	Dihydroquinole
117.110	049	EPA 8270C	3,3'-Dimethoxybenzidine

117.110.050	EPA 8270C	p-Dimethylaminobenzene
117.110.051	EPA 8270C	7,12-Dimethylbenzo(a)anthracene
117.110.052	EPA 8270C	o,o-Dimethylphenethylamine
117.110.053	EPA 8270C	2,4-Dimethylphenol
117.110.054	EPA 8270C	Dimethyl Phthalate
117.110.055	EPA 8270C	Di-n-butyl phthalate
117.110.056	EPA 8270C	Di-n-octyl phthalate
117.110.057	EPA 8270C	1,2-Dinitrobenzene
117.110.058	EPA 8270C	1,3-Dinitrobenzene
117.110.059	EPA 8270C	1,4-Dinitrobenzene
117.110.060	EPA 8270C	2,4-Dinitrophenol
117.110.061	EPA 8270C	2,4-Dinitrotoluene
117.110.062	EPA 8270C	2,6-Dinitrotoluene
117.110.063	EPA 8270C	Diphenylamine
117.110.064	EPA 8270C	1,2-Diphenylhydrazine
117.110.065	EPA 8270C	Ethyl Carbamate
117.110.066	EPA 8270C	Ethyl Methanesulfonate
117.110.067	EPA 8270C	Fluorene
117.110.068	EPA 8270C	Fluorene
117.110.069	EPA 8270C	Hexachlorobenzene
117.110.070	EPA 8270C	Hexachlorobutadiene
117.110.071	EPA 8270C	Hexachlorocyclopentadiene
117.110.072	EPA 8270C	Hexachloroethane
117.110.073	EPA 8270C	Hexachlorophene
117.110.074	EPA 8270C	Hexachloropropene
117.110.075	EPA 8270C	Indeno(1,2,3-cd)pyrene
117.110.076	EPA 8270C	Isophorone
117.110.077	EPA 8270C	Isosafrole
117.110.078	EPA 8270C	Maleic Anhydride
117.110.079	EPA 8270C	3-Methylchloanthrene
117.110.080	EPA 8270C	2-Methyl-4,5-dinitrophenol
117.110.081	EPA 8270C	4,4'-Methylenbis(2-chloroaniline)
117.110.082	EPA 8270C	Methyl Methanesulfonate
117.110.083	EPA 8270C	2-Methylnaphthalene
117.110.084	EPA 8270C	2-Methylphenol
117.110.085	EPA 8270C	3-Methylphenol
117.110.086	EPA 8270C	4-Methylphenol
117.110.087	EPA 8270C	Naphthalene
117.110.088	EPA 8270C	1,4-Naphthoquinone
117.110.089	EPA 8270C	1-Naphthylamine
117.110.090	EPA 8270C	2-Naphthylamine



117.110	091	EPA 8270C	Nicotine
117.110	092	EPA 8270C	2-Nitroaniline
117.110	093	EPA 8270C	3-Nitroaniline
117.110	094	EPA 8270C	4-Nitroaniline
117.110	095	EPA 8270C	Nitrobenzene
117.110	096	EPA 8270C	2-Nitrophenol
117.110	097	EPA 8270C	4-Nitrophenol
117.110	098	EPA 8270C	Nitroso-d-n-butylamine
117.110	099	EPA 8270C	Nitrosodethylamine
117.110	100	EPA 8270C	Nitrosodimethylamine
117.110	101	EPA 8270C	Nitroso-d-n-propylamine
117.110	102	EPA 8270C	Nitrosodiphenylamine
117.110	103	EPA 8270C	Nitrosomethylethylamine
117.110	104	EPA 8270C	Nitrosomorpholine
117.110	105	EPA 8270C	Nitrosopiperidine
117.110	106	EPA 8270C	Nitrosopyrrolidine
117.110	107	EPA 8270C	5-Nitro-o-toluidine
117.110	108	EPA 8270C	Pentachlorobenzene
117.110	109	EPA 8270C	Pentachloronitrobenzene
117.110	110	EPA 8270C	Pentachlorophenol
117.110	111	EPA 8270C	Phenacetin
117.110	112	EPA 8270C	Phenanthrene
117.110	113	EPA 8270C	Phenol
117.110	114	EPA 8270C	1,4-Phenylenediamine
117.110	115	EPA 8270C	Phthalic Anhydride
117.110	116	EPA 8270C	2-Picoline
117.110	117	EPA 8270C	Picramide
117.110	118	EPA 8270C	Propylthiouacil
117.110	119	EPA 8270C	Pyrene
117.110	120	EPA 8270C	Pyridine
117.110	121	EPA 8270C	Resorcinol
117.110	122	EPA 8270C	Sabole
117.110	123	EPA 8270C	Styrene
117.110	124	EPA 8270C	1,2,4,5-Tetrachlorobenzene
117.110	125	EPA 8270C	2,3,4,5-Tetrachlorophenol
117.110	126	EPA 8270C	Thiophenol
117.110	127	EPA 8270C	Toluene Dithiocyanate
117.110	128	EPA 8270C	o-Toluidine
117.110	129	EPA 8270C	1,2,4-Trichlorobenzene
117.110	130	EPA 8270C	2,4,5-Trichlorophenol
117.110	131	EPA 8270C	2,4,6-Trichlorophenol

117.110	132	EPA 8270C	1,3,5-Trinitrobenzene
117.111	073	EPA 8270C	Polynuclear Aromatic Hydrocarbons
117.111	075	EPA 8270C	Phthalates
117.111	076	EPA 8270C	Other Extractables
117.140	000	EPA 8310	Polynuclear Aromatic Hydrocarbons
117.140	001	EPA 8310	Acenaphthene
117.140	002	EPA 8310	Acenaphthylene
117.140	003	EPA 8310	Anthracene
117.140	004	EPA 8310	Benzo(a)anthracene
117.140	005	EPA 8310	Benzo(a)pyrene
117.140	006	EPA 8310	Benzo(b)fluoranthene
117.140	007	EPA 8310	Benzo(k)fluoranthene
117.140	008	EPA 8310	Benzo(g,h,i)perylene
117.140	009	EPA 8310	Chrysene
117.140	010	EPA 8310	Dibenzo(a,h)anthracene
117.140	011	EPA 8310	Fluoranthene
117.140	012	EPA 8310	Fluorene
117.140	013	EPA 8310	Indeno(1,2,3-cd)pyrene
117.140	014	EPA 8310	Naphthalene
117.140	015	EPA 8310	Phenanthrene
117.140	016	EPA 8310	Pyrene
117.170	000	EPA 8330	Nitroaromatics and Nitramines
117.170	001	EPA 8330	4-Amino-2,6-dinitrotoluene
117.170	002	EPA 8330	2-Amino-4,6-dinitrotoluene
117.170	003	EPA 8330	1,3-Dinitrobenzene
117.170	004	EPA 8330	2,4-Dinitrotoluene
117.170	005	EPA 8330	2,6-Dinitrotoluene
117.170	006	EPA 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
117.170	007	EPA 8330	Methyl-2,4,6-trinitrophenylamine
117.170	008	EPA 8330	Nitrobenzene
117.170	009	EPA 8330	2-Nitrotoluene
117.170	010	EPA 8330	3-Nitrotoluene
117.170	011	EPA 8330	4-Nitrotoluene
117.170	012	EPA 8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-azocine
117.170	013	EPA 8330	1,3,5-Trinitrobenzene
117.170	014	EPA 8330	2,4,6-Trinitrotoluene
117.171	000	EPA 8330A	Nitroaromatics and Nitramines
117.171	001	EPA 8330A	4-Amino-2,6-dinitrotoluene
117.171	002	EPA 8330A	2-Amino-4,6-dinitrotoluene
117.171	003	EPA 8330A	1,3-Dinitrobenzene
117.171	004	EPA 8330A	2,4-Dinitrotoluene

117.171	005	EPA 8230A	2,4-Dinitrotoluene
117.171	006	EPA 8230A	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
117.171	007	EPA 8230A	Methyl-2,4,6-trinitrophenylhydrazine
117.171	008	EPA 8230A	Nitrobenzene
117.171	009	EPA 8230A	2-Nitrotoluene
117.171	010	EPA 8230A	3-Nitrotoluene
117.171	011	EPA 8230A	4-Nitrotoluene
117.171	012	EPA 8230A	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine
117.171	013	EPA 8230A	1,3,5-Trinitrobenzene
117.171	014	EPA 8230A	2,4,6-Trinitrotoluene
117.210	000	EPA 8081A	Organochlorine Pesticides
117.210	001	EPA 8081A	Aldrin
117.210	002	EPA 8081A	$\alpha$ -DHC
117.210	003	EPA 8081A	$\beta$ -DHC
117.210	004	EPA 8081A	$\delta$ -DHC
117.210	005	EPA 8081A	$\gamma$ -DHC (Lindane)
117.210	006	EPA 8081A	Captafol
117.210	007	EPA 8081A	$\alpha$ -Chlordane
117.210	008	EPA 8081A	$\beta$ -Chlordane
117.210	009	EPA 8081A	Chlordane (tech.)
117.210	010	EPA 8081A	Chlorobenzilate
117.210	011	EPA 8081A	Chloroneb
117.210	012	EPA 8081A	Chlorofluorol
117.210	013	EPA 8081A	4,F-ODD
117.210	014	EPA 8081A	4,F-ODE
117.210	015	EPA 8081A	4,F-ODT
117.210	020	EPA 8081A	Dieldrin
117.210	021	EPA 8081A	Endosulfan I
117.210	022	EPA 8081A	Endosulfan II
117.210	023	EPA 8081A	Endosulfan Sulfate
117.210	024	EPA 8081A	Endrin
117.210	025	EPA 8081A	Endrin Aldehyde
117.210	026	EPA 8081A	Endrin Ketone
117.210	027	EPA 8081A	Heptachlor
117.210	028	EPA 8081A	Heptachlor Epoxide
117.210	029	EPA 8081A	Hexachlorobenzene
117.210	033	EPA 8081A	Methoxychlor
117.210	038	EPA 8081A	Toxaphene
117.210	040	EPA 8081A	Trifluralin
117.220	000	EPA 8082	PCBs
117.220	001	EPA 8082	PCB-1016

117.220	002	EPA 8082	PCB-1221
117.220	003	EPA 8082	PCB-1230
117.220	004	EPA 8082	PCB-1240
117.220	005	EPA 8082	PCB-1248
117.220	006	EPA 8082	PCB-1254
117.220	007	EPA 8082	PCB-1260
117.240	000	EPA 8141A	Organophosphorus Pesticides
117.240	001	EPA 8141A	Azinphos
117.240	002	EPA 8141A	Azinphos Methyl
117.240	003	EPA 8141A	Carbofenthoion
117.240	004	EPA 8141A	Chlorfenvinphos
117.240	005	EPA 8141A	Chlorpyrifos
117.240	006	EPA 8141A	Chlorpyrifos Methyl
117.240	007	EPA 8141A	Demeton-O
117.240	008	EPA 8141A	Demeton-S
117.240	009	EPA 8141A	Diazinon
117.240	014	EPA 8141A	Famphur
117.240	015	EPA 8141A	Malathion
117.240	016	EPA 8141A	Mevinphos
117.240	017	EPA 8141A	Naled
117.240	018	EPA 8141A	Permethrin Ethyl
117.240	019	EPA 8141A	Permethrin Methyl
117.240	020	EPA 8141A	Phorate
117.240	022	EPA 8141A	Ronal
117.240	023	EPA 8141A	Sinazine
117.240	024	EPA 8141A	Sulfotep
117.250	000	EPA 8151A	Chlorinated Herbicides
117.250	001	EPA 8151A	2,4-D
117.250	002	EPA 8151A	2,4-DE
117.250	003	EPA 8151A	2,4,5-T
117.250	004	EPA 8151A	2,4,5-TP
117.250	006	EPA 8151A	Delepon
117.250	007	EPA 8151A	Dichloroprop
117.250	008	EPA 8151A	Dioxab
117.250	009	EPA 8151A	MCPA
117.250	010	EPA 8151A	MCPP
117.250	011	EPA 8151A	4-Metophenol
117.250	014	EPA 8151A	Dicamba

**119 - Toxicity Bioassay of Hazardous Waste**

119.010	001	Folsin & Miller (COFO 1968)	Fathead Minnow ( <i>F. promelas</i> )
---------	-----	-----------------------------	---------------------------------------

**120 - Physical Properties of Hazardous Waste**

120.010	001	EPA 1010	Ignitability
120.022	001	EPA 1030	Ignitability
120.030	001	EPA 1110	Corrosivity
120.040	001	Section 7.3 DW-646	Reactive Cyanide
120.050	001	Section 7.3 DW-646	Reactive Sulfide
120.070	001	EPA 9040B	Corrosivity - pH Determination
120.080	001	EPA 9045C	Corrosivity - pH Determination



NELAP - RECOGNIZED



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

**CERTIFICATE OF NELAP ACCREDITATION**

is hereby granted to

**Calscience Environmental Laboratories, Inc.**

7440 Lincoln Way  
Garden Grove, CA 92841-1427

Scope of the Certificate is limited to the  
"NELAP Fields of Accreditation"  
which accompany this Certificate.

Continued accredited status depends on successful  
ongoing participation in the program.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 03220CA

Expiration Date: 9/30/2014

Effective Date: 10/1/2013

Richmond, California  
subject to forfeiture or revocation

  
David Mazzera, Ph.D., Assistant Division Chief  
Division of Drinking Water and Environmental Management