PARSONS

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May 14, 2012

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

Re: Transmittal of First Quarter 2012 Groundwater Discharge Monitoring Report
NPDES No. CAG994004; Compliance File No. CI-7585
DFSP Norwalk Facility, 15306 Norwalk Boulevard, Norwalk, California

In compliance with the subject NPDES Permit, Parsons is submitting this quarterly Discharge Monitoring Report (DMR) on behalf of the Defense Logistics Agency Energy for the subject reporting period.

NPDES DISCHARGE VOLUMES

The groundwater treatment system (GWTS) discharge volumes and field notes are summarized in Table 1. Periodic site visits were conducted to assess and optimize system operation and record operational data. During the subject quarter, 1,335,625 gallons of groundwater were processed and discharged. Other than discharge of treated groundwater to the permitted NPDES outfall, no groundwater was managed off-site as an investigation-derived waste.

There were no changes in the operation of the facility that have or would change the character, location, or volume of the groundwater discharge. A summary of the operational periods with dates and groundwater volumes processed is provided in Table 1.

DISCHARGE MONITORING 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). The sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B.

All analyses indicate concentrations were below detection limits or did not exceed permit required discharge levels with the following exceptions. Tert-butyl alcohol (TBA) was reportedly detected on February 27th (14 µg/L) and March 2nd (13 µg/L). Both detections were during re-establishment of system compliance. Immediately following receipt of laboratory exceedances, confirmation samples were collected and analyzed and, in both cases, indicated sample results were below the daily maximum discharge limit. The accelerated sampling schedule continued throughout this quarter until affirmation of consistent system compliance was re-established.

Please note that the GWTS operated continuously during this reporting period with the exception of routine system maintenance and site activities specified as follows. The GWTS was shut down March 23rd pending repair of an electrical pull box that is part of the GWTS power supply service and was damaged during on-site excavation activities. An electrician verified damage to the pull box did not impact operation of the inlet from extraction wells GW-2/GW-13, and GWTS operation resumed on April 2nd. The system was shut down approximately one week prior to and during the quarterly groundwater monitoring event conducted in January.

Representative samples of treated groundwater will continue to be collected from the system effluent and analyzed for compounds as required by the MRP. The sample dates and summary of test results are provided in Table 2. A complete set of laboratory reports are provided in Attachment B.

VISUAL OBSERVATIONS

Based on the periodic inspections as documented in Attachment C and referenced in Table 1, the effluent stream was consistently clear and did not contain oil sheen, debris, or other particulate material. No odor has been detected in the effluent sample. Copies of the GWTS Monitoring Logs are provided in Attachment C.

SUMMARY OF NON-COMPLIANCE

As indicated previously, concentrations of TBA in samples collected February 17th and March 2nd exceeded the NPDES permit no. CAG994004 daily maximum discharge limit (12 µg/L). Confirmation samples collected and analyzed immediately following receipt of analytical reports identifying exceedances did not confirm TBA overages. The accelerated (weekly) sampling schedule continued until system compliance was re-established.

The following steps were taken to assess the source of TBA in the effluent:

1) Analytical results were requested from the GAC supplier to determine whether or not low level TBA was present in regenerated carbon used for rebed. Although these analytical results did not show TBA present, the reporting limit was significantly higher than NPDES permit no. CAG994004 daily maximum discharge limit (12 µg/L) and could not be lowered due to analytical limitations.

2) TBA samples were collected and analyzed from each extraction well and the surge tank on March 2nd. TBA was not detected in any extraction well and detected (8.7 µg/L) below the daily maximum discharge limit in the surge tank. Additional analytical data collection is planned to establish a correlation of influent concentration fluctuation. In the interim, TBA treatment options will be evaluated.

LABORATORY CERTIFICATION

All analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current USEPA procedures or as specified in this Monitoring Program. The laboratory's quality control data is attached. A copy of the laboratory certification is provided in Attachment 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 for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Executed on the 8th day of May 2012, at Pasadena, California.

Sincerely,

Joseph R. Walters, P.E.
Senior Engineer

Redwan Hassan
Project Manager

PARSONS as a duty authorized representative of the Defense Logistics Agency (DLA) Energy.

cc: Chris Berthaume, DLA-VA Document Depository
Matthew Young, DLA-E
Paul Cho, RWQCB

Attachments

Attachment A Tables
Table 1 Groundwater Treatment System Operational Data
Table 2 Analytical Results of Effluent Water Samples

Attachment B Analytical Laboratory Reports and Electronic Submittal Confirmation

Attachment C Groundwater Treatment System Monitoring Logs

ATTACHMENT A

Tables

Table 1
Groundwater Treatment System Operation Data
DFSP Norwalk
15306 Norwalk Boulevard, Norwalk, CA

Date	Outlet Totalizer (gals)	Monthly Flow (gals)	Comments
1/16/2012	58,794,628	4,698	GWTS operating normally. MX-7 filters replaced.
1/18/2012	58,851,400	56,772	GWTS operating normally.
1/19/2012	58,860,565	9,165	GWTS operating normally. Bag and MX-7 filters replaced.
1/20/2012	58,881,865	21,300	GWTS operating normally. Collected effluent sample for VOC's.
1/23/2012	58,929,920	48,055	GWTS operating normally. Bag and MX-7 filters replaced.
1/24/2012	58,960,120	30,200	GWTS operating normally.
1/26/2012	59,006,810	46,690	GWTS operating normally. Monthly NPDES compliance samples
1/27/2012	59,016,285	9,475	GWTS operating normally. Bag and MX-7 filters replaced.
1/30/2012	59,083,640	67,355	GWTS operating normally. Bag filters replaced.
1/31/2012	59,110,660	27,020	GWTS operating normally. MX-7 filters replaced.
Jan'12	320,730	320,730	
2/1/2012	59,129,450	18,790	GWTS operating normally. Bag filters replaced.
2/3/2012	59,180,025	50,575	GWTS operating normally. Bag and MX-7 filters replaced. Effluent
2/6/2012	59,256,390	76,365	GWTS operating normally. Bag filters replaced.
2/7/2012	59,287,950	31,560	GWTS operating normally.
2/8/2012	59,308,630	20,680	GWTS operating normally. Bag and MX-7 filters replaced.
2/9/2012	59,338,750	30,120	GWTS operating normally.
2/10/2012	59,356,755	18,005	GWTS operating normally. Effluent sample collected.
2/13/2012	59,397,450	40,695	GWTS operating normally. Bag and MX-7 filters replaced.
2/15/2012	59,448,550	51,100	GWTS operating normally. Bag filters replaced.
2/16/2012	59,484,215	35,665	GWTS operating normally.
2/17/2012	59,501,660	17,445	GWTS operating normally. MX-7 filters replaced. Effluent sample
2/20/2012	59,561,415	59,755	GWTS operating normally. Bag filters replaced.
2/21/2012	59,588,510	27,095	GWTS operating normally.
2/23/2012	59,640,670	52,160	GWTS operating normally. Effluent sample collected.
2/24/2012	59,662,450	21,780	GWTS operating normally. Quarterly NPDES compliance samples collected.
2/27/2012	59,690,655	28,205	GWTS operating normally. Bag and MX-7 filters replaced.
2/29/2012	59,725,725	35,070	GWTS operating normally. Bag filters replaced.
Feb'12	615,065	615,065	
3/2/2012	59,779,400	53,675	GWTS operating normally. Effluent sample collected.
3/5/2012	59,845,195	65,795	GWTS operating normally. Bag filters replaced.
3/6/2012	59,870,190	24,995	GWTS operating normally. Effluent sample collected.
3/7/2012	59,898,741	28,551	GWTS operating normally.
3/9/2012	59,941,475	42,734	GWTS operating normally. Bag and MX-7 filters replaced.
3/12/2012	59,992,040	50,565	GWTS operating normally. Bag filters replaced.
3/14/2012	60,026,700	34,660	GWTS operating normally.GW-2/13 discharge line broken. Repairs pending.
3/16/2012	60,054,902	28,202	GWTS operating normally. Effluent sample collected. GW-2/13 discharge line broken. Repairs pending.
3/19/2012	60,072,775	17,873	GWTS operating normally. Bag and MX-7 filters replaced.
3/21/2012	60,097,580	24,805	GWTS operating normally.GW-2/13 discharge line broken. Repairs pending.
3/23/2012	60,122,380	24,800	GWTS operating normally. Effluent sample collected. GW-2/13 discharge line broken. Repairs pending.
3/28/2012	60,125,555	3,175	GWTS operating normally. Monthly NPDES compliance samples
Mar'12	399,830	399,830	
Total	1,335,625	1,335,625	15091 gpd Average Flow Rate for Quarter

Table 2
Analytical Results of Effluent Water Samples
DFSP Norwalk
15306 Norwalk Boulevard, Norwalk, California

Sampling Frequency		Monthly												Quarterly							Annually	
Analytical Method		SM4500 H+B	Field	8015B mod.	EPA8260B			SM5520B	EPA 6010B/EPA 6020					SM2130B	SM4500S2-D	SM4500-CL F	SM2540D	SM2540F	SM5540 C	EPA 420.1	EPA 405.1	EPA821R02012
Date	Sample Loc.	pH	Temp. °C	TPH µg/L	Benzene µg/L	MTBE µg/L	TBA µg/L	Oil & Grease mg/L	Copper mg/L	Arsenic mg/L	Lead mg/L	Zinc mg/L	Selenium mg/L	Turbidity NTU	Sulfide mg/L	Residual Chlorine mg/L	Total Suspended Solids mg/L	Settleable Solid mL/L/hr	MBAS mg/L	Phenols mg/L	BOD5 20°C mg/L	96 hr Fathead Minnow Survival %
1/20/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/26/2012	Effluent	7.09	20.7	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	0.00104	0.0361	ND <0.00100	ND <0.00500	ND <0.00100	0.21	---	---	---	---	---	---	---	---
2/3/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2/10/2012	Effluent	---	---	---	ND<0.50	ND<0.50	6.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2/17/2012	Effluent	---	---	---	ND<0.50	ND<0.50	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2/23/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2/24/2012	Effluent	7.27	21.4	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	0.00107	0.0222	ND <0.00100	ND <0.00500	ND <0.00100	0.12	ND <0.050	ND <0.10	ND <1.0	ND <0.10	ND <0.10	ND <0.10	---	---
3/2/2012	Effluent	---	---	---	ND<0.50	ND<0.50	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/6/2012	Effluent	---	---	---	ND<0.50	ND<0.50	8.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/9/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/16/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/23/2012	Effluent	---	---	---	ND<0.50	ND<0.50	ND<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/28/2012	Effluent	7.23	18.1	ND<100	ND<0.50	ND<0.50	ND<10	ND <1.0	ND <0.00100	0.0221	ND <0.00100	ND <0.00500	ND <0.00100	0.18	---	---	---	---	---	---	---	---
RL		0.01	---	100	0.50	0.50	10	1.0	0.00100	0.00100	0.00100	0.00500	0.00100	0.050	0.050	0.10	1.0	0.10	0.10	0.10	1.0	---
MDL		0.01	---	86	0.26	0.26	5.4	0.77	1.34	3.08			2.95	0.044	0.042	0.04	0.95	0.10	0.089	0.060	0.58	--
Daily Maximum		within 6.5-8.5	100°F (38°C)	100	1	5	12	15	0.02	0.05	0.106	0.158	0.008	150	1	0.1	150	0.3	0.5	1	30	minimum 90%
Monthly Average				--	--	--	--	10	0.01	--	0.053	0.079	0.004	50	--	--	50	0.1	--	--	20	--

Notes: Analytical method for metals analysis changed from EPA 6010B to EPA 6010 to obtain lower reporting limit.

* TPH as Diesel result, TPH as Gasoline not detected (reporting limit 100 ug/L)

Bold = Exceedance of standard
-- = not analyzed/not applicable

mg/L = milligram per liter
µg/L = microgram per liter
NTU = nephelometric turbidity units
TPH = total petroleum hydrocarbon

MTBE = methyl-tert-butyl ether
MBAS = methyl blue active substances (sufactants)

MDL = Method detection limit (or Reporting Limit if MDL not provided)
ML= Minimum Reporting Limit (µg/L)

ATTACHMENT B

Analytical Laboratory Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-01-1217

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 01/27/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Work Order Number: 12-01-1217

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/20/12
Work Order No: 12-01-1217
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-01-1217-1-B**	**01/20/12 08:25**	**Aqueous**	**GC/MS FFF**	**01/24/12**	**01/24/12 17:57**	**120124L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	80-120			Dibromofluoromethane	107	80-126		
1,2-Dichloroethane-d4	106	80-134			Toluene-d8	98	80-120		

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	01/20/12
100 West Walnut Street		Work Order No:	12-01-1217
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-6,873**	**N/A**	**Aqueous**	**GC/MS FFF**	**01/24/12**	**01/24/12 11:56**	**120124L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/20/12
Work Order No: 12-01-1217
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1187-1	**Aqueous**	**GC/MS FFF**	**01/24/12**	**01/24/12**	**120124S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	94	78-120	2	0-20	
Carbon Tetrachloride	50.00	118	115	67-139	3	0-20	
Chlorobenzene	50.00	102	100	80-120	2	0-20	
1,2-Dibromoethane	50.00	101	100	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	102	100	76-120	2	0-20	
1,2-Dichloroethane	50.00	98	97	76-130	2	0-20	
1,1-Dichloroethene	50.00	93	92	70-130	2	0-27	
Ethylbenzene	50.00	105	102	73-127	3	0-20	
Toluene	50.00	98	96	72-126	3	0-20	
Trichloroethene	50.00	102	99	74-122	3	0-20	
Vinyl Chloride	50.00	87	85	65-131	3	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	105	104	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	112	122	65-131	9	0-22	
Diisopropyl Ether (DIPE)	50.00	100	98	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	97	95	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	97	96	70-124	1	0-20	
Ethanol	500.0	85	94	41-155	10	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-01-1217
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-6,873	**Aqueous**	**GC/MS FFF**	**01/24/12**	**01/24/12**	**120124L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	98	98	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	128	123	66-138	54-150	4	0-20	
Chlorobenzene	50.00	103	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	107	107	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	103	105	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	102	102	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	108	106	71-131	61-141	2	0-20	
Ethylbenzene	50.00	107	105	80-123	73-130	2	0-20	
Toluene	50.00	100	99	79-121	72-128	1	0-20	
Trichloroethene	50.00	106	104	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	90	89	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	110	111	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	92	92	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	102	102	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	102	103	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	99	101	67-133	56-144	2	0-20	
Ethanol	500.0	102	97	47-155	29-173	5	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-01-1217

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: 12-01-1217

Date: 1-20-12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP - Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
1	Effluent	1-20-12	0825	GW	3		3						X										

Relinquished by: (Signature) Glenn Androsko — Received by: (Signature/Affiliation) — Date: 1-20-12 — Time: 1101

Relinquished by: (Signature) — Received by: (Signature/Affiliation) CCL — Date: 01/20/12 — Time: 1315

Relinquished by: (Signature) — Received by: (Signature/Affiliation) — Date: — Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-01-1217

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 01/20/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** b.L

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-01-1587

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP Norwalk - Monthly

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

Ranjit K. K. Clarke

Approved for release on 02/3/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

nelac

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Work Order Number: 12-01-1587

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.		Date Received:	01/26/12
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-01-1587-1-H**	**01/26/12 11:40**	**Aqueous**	**GC 47**	**02/01/12**	**02/01/12 11:34**	**120201B01**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	121	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-249-944**	**N/A**	**Aqueous**	**GC 47**	**02/01/12**	**02/01/12 10:49**	**120201B01**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	68-140	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.		Date Received:	01/26/12
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-01-1587-1-F**	**01/26/12 11:40**	**Aqueous**	**GC 25**	**01/28/12**	**01/29/12 02:41**	**120128B02**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	80	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-5,680**	**N/A**	**Aqueous**	**GC 25**	**01/28/12**	**01/28/12 18:49**	**120128B02**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	75	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-01-1587-1-A**	**01/26/12 11:40**	**Aqueous**	**GC/MS WW**	**01/27/12**	**01/27/12 15:10**	**120127L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	102	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-6,926**	**N/A**	**Aqueous**	**GC/MS WW**	**01/27/12**	**01/27/12 14:41**	**120127L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-01-1587-1-G**	**01/26/12 11:40**	**Aqueous**	**ICP/MS 04**	**01/27/12**	**01/30/12 13:24**	**120127L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0361	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00104	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,632**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/27/12**	**01/27/12 19:18**	**120127L03**

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-01-1587-1**	**01/26/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Turbidity	0.21	0.050	1		NTU	N/A	01/26/12	SM 2130 B
pH	7.09	0.01	1		pH units	N/A	01/26/12	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	01/27/12	01/27/12	SM 5520 B

Method Blank					**N/A**	**Aqueous**		
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0	1		mg/L	01/27/12	01/27/12	SM 5520 B

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1591-1	**Aqueous**	**ICP/MS 04**	**01/27/12**	**01/27/12**	**120127S03**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	72	81	73-127	11	0-11	3
Copper	0.1000	82	88	72-108	7	0-10	
Lead	0.1000	88	96	79-121	9	0-10	
Selenium	0.1000	67	75	59-125	11	0-12	
Zinc	0.1000	73	81	43-145	11	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received	01/26/12
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-01-1591-1	**Aqueous**	**ICP/MS 04**	**01/27/12**	**01/27/12**	**120127S03**

Analysis Comment: * - Analyzed 1/30/2012 12:20:03 PM

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	89	93	75-125	4	0-11	
Copper	0.1000	93	94	75-125	1	0-10	
Lead	0.1000	96	99	75-125	3	0-10	
Selenium	0.1000	94	93	75-125	1	0-12	
Zinc	0.1000	88	89	75-125	1	0-39	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1675-2	**Aqueous**	**GC 25**	**01/28/12**	**01/28/12**	**120128S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	100	86	68-122	15	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 01/26/12
Work Order No: 12-01-1587
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS WW**	**01/27/12**	**01/27/12**	**120127S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	100	78-120	0	0-20	
Carbon Tetrachloride	50.00	104	103	67-139	1	0-20	
Chlorobenzene	50.00	98	97	80-120	1	0-20	
1,2-Dibromoethane	50.00	102	103	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	98	97	76-120	0	0-20	
1,2-Dichloroethane	50.00	103	105	76-130	2	0-20	
1,1-Dichloroethene	50.00	98	96	70-130	2	0-27	
Ethylbenzene	50.00	101	99	73-127	2	0-20	
Toluene	50.00	96	94	72-126	2	0-20	
Trichloroethene	50.00	100	98	74-122	2	0-20	
Vinyl Chloride	50.00	93	92	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	99	100	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	250.0	101	101	65-131	0	0-22	
Diisopropyl Ether (DIPE)	50.00	100	101	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	97	98	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	98	100	70-124	2	0-20	
Ethanol	500.0	116	107	41-155	7	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-01-1587

Project: DFSP Norwalk - Monthly

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Turbidity	SM 2130 B	Effluent	01/26/12	0.21	0.20	5	0-25	
pH	SM 4500 H+ B	12-01-1543-1	01/26/12	7.32	7.39	1	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,632	**Aqueous**	**ICP/MS 04**	**01/27/12**	**01/27/12**	**120127L03**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	101	104	80-120	3	0-20	
Copper	0.1000	100	103	80-120	3	0-20	
Lead	0.1000	99	102	80-120	3	0-20	
Selenium	0.1000	104	101	80-120	2	0-20	
Zinc	0.1000	98	102	80-120	3	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-249-944	**Aqueous**	**GC 47**	**02/01/12**	**02/01/12**	**120201B01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	103	94	75-117	10	0-13	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,680	**Aqueous**	**GC 25**	**01/28/12**	**01/28/12**	**120128B02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	99	113	78-120	13	0-10	X

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-01-1587
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-6,926	**Aqueous**	**GC/MS WW**	**01/27/12**	**01/27/12**	**120127L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	101	100	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	105	103	66-138	54-150	1	0-20	
Chlorobenzene	50.00	99	99	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	102	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	96	97	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	103	104	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	99	96	71-131	61-141	2	0-20	
Ethylbenzene	50.00	102	101	80-123	73-130	1	0-20	
Toluene	50.00	95	94	79-121	72-128	1	0-20	
Trichloroethene	50.00	100	100	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	93	92	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	98	99	72-126	63-135	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	94	108	71-125	62-134	14	0-25	
Diisopropyl Ether (DIPE)	50.00	100	99	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	97	97	69-129	59-139	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	100	100	67-133	56-144	0	0-20	
Ethanol	500.0	103	118	47-155	29-173	14	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-01-1587

Project: DFSP Norwalk - Monthly

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Oil and Grease	SM 5520 B	099-05-081-2,828	01/27/12	01/27/12	95	97	80-120	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-01-1587

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

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

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CHAIN OF CUSTODY RECORD

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

DATE: 1-25-12

PAGE: 1 OF 1

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

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

P.O. NO.:
QUOTE NO.:
LAB USE ONLY: 12-01-1587

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

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

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se)	Comments
	Effluent		1-26-12	1140	W	12 ~~10~~	X	X	X	X	X	X	

Relinquished by: (Signature) Glenn Andronker	Received by: (Signature)	Date: 1-26-12	Time: 1545
Relinquished by: (Signature)	Received by: (Signature)	Date: 1-26-12	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-01-1587

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 01/26/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: AM

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

☐500AGB ☑500AGJ (4) ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

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

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

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

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

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Ranjit Clarke

From: Zicker, Cindy [Cindy.Zicker@parsons.com]
Sent: Saturday, January 28, 2012 4:02 PM
To: Ranjit Clarke
Cc: Androsko, Glenn; Lucas, Mary
Subject: RE: DFSP Norwalk - Monthly (01/26/12) - Missing metals

Thanks Ranjit,
This was an oversight. These metals are needed.
Cindy

From: Ranjit Clarke [mailto:rclarke@calscience.com]
Sent: Friday, January 27, 2012 9:13 AM
To: Zicker, Cindy; Lucas, Mary
Subject: DFSP Norwalk - Monthly (01/26/12) - Missing metals

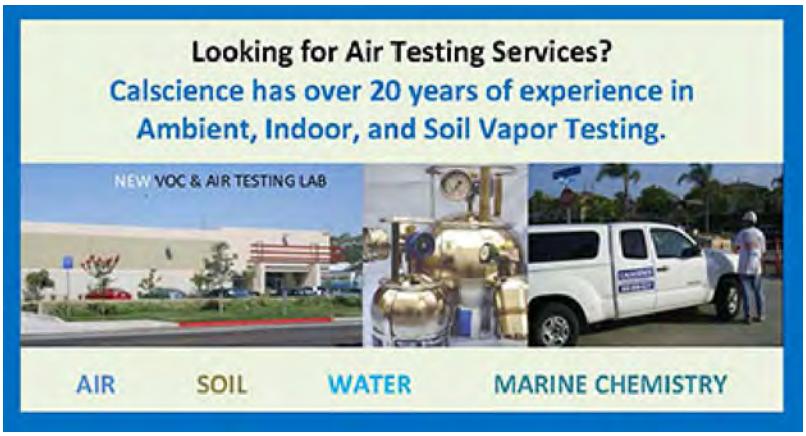
Cindy,

The DFSP Norwalk - Monthly samples ususally have 5 metals (**As,Cu,Se,Pb,Zn**). Pb and Zn are not requested on this COC. Was this an oversight, or do you not need these metals for this event.

Please confirm.

Thanks,

Ranjit Clarke
Project Manager
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x222
Fax: 714-894-7501
rclarke@calscience.com



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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-0232

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 02/9/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-02-0232

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/03/12
Work Order No: 12-02-0232
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-0232-1-B**	**02/03/12 08:15**	**Aqueous**	**GC/MS XX**	**02/06/12**	**02/06/12 13:16**	**120206L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	103	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/03/12
Work Order No: 12-02-0232
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-6,996**	**N/A**	**Aqueous**	**GC/MS XX**	**02/06/12**	**02/06/12 12:16**	**120206L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	103	80-134		Toluene-d8	102	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/03/12
Work Order No: 12-02-0232
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS XX**	**02/06/12**	**02/06/12**	**120206S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	110	111	78-120	1	0-20	
Carbon Tetrachloride	50.00	127	129	67-139	2	0-20	
Chlorobenzene	50.00	92	91	80-120	1	0-20	
1,2-Dibromoethane	50.00	95	95	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	86	87	76-120	1	0-20	
1,2-Dichloroethane	50.00	107	109	76-130	2	0-20	
1,1-Dichloroethene	50.00	115	118	70-130	2	0-27	
Ethylbenzene	50.00	97	97	73-127	0	0-20	
Toluene	50.00	109	111	72-126	1	0-20	
Trichloroethene	50.00	109	110	74-122	1	0-20	
Vinyl Chloride	50.00	127	131	65-131	3	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	116	120	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	80	80	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	113	116	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	112	116	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	109	112	70-124	3	0-20	
Ethanol	500.0	88	86	41-155	3	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-0232
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-6,996	**Aqueous**	**GC/MS XX**	**02/06/12**	**02/06/12**	**120206L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	106	108	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	132	133	66-138	54-150	1	0-20	
Chlorobenzene	50.00	88	89	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	96	93	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	84	85	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	106	106	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	116	117	71-131	61-141	1	0-20	
Ethylbenzene	50.00	93	95	80-123	73-130	2	0-20	
Toluene	50.00	107	108	79-121	72-128	1	0-20	
Trichloroethene	50.00	105	107	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	129	132	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	124	119	72-126	63-135	4	0-22	
Tert-Butyl Alcohol (TBA)	250.0	77	80	71-125	62-134	5	0-25	
Diisopropyl Ether (DIPE)	50.00	116	115	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	118	116	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	113	112	67-133	56-144	1	0-20	
Ethanol	500.0	78	88	47-155	29-173	12	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-02-0232

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: 12-02-0232

Date: 2-3-12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas/Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	VOC's (8260)
1	Effluent	2-3-12	0815	GW	3		3		X

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEC	Date: 2-3-12	Time: 1030
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle CEL	Date: 2/3/12	Time: 12:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-0232

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parson DATE: 02/3/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-0694

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 02/16/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Client Project Name: DFSP - Norwalk
Work Order Number: 12-02-0694

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/10/12
Work Order No: 12-02-0694
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-0694-1-A**	**02/10/12 09:55**	**Aqueous**	**GC/MS Q**	**02/10/12**	**02/10/12 22:12**	**120210L01**

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

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	6.4	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	94	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	98	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/10/12
Work Order No: 12-02-0694
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,034**	**N/A**	**Aqueous**	**GC/MS Q**	**02/10/12**	**02/10/12 14:00**	**120210L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	97	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/10/12
Work Order No: 12-02-0694
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-0598-3	**Aqueous**	**GC/MS Q**	**02/10/12**	**02/10/12**	**120210S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	89	89	78-120	0	0-20	
Carbon Tetrachloride	50.00	84	83	67-139	0	0-20	
Chlorobenzene	50.00	100	100	80-120	0	0-20	
1,2-Dibromoethane	50.00	107	102	80-123	5	0-20	
1,2-Dichlorobenzene	50.00	102	100	76-120	2	0-20	
1,2-Dichloroethane	50.00	91	90	76-130	1	0-20	
1,1-Dichloroethene	50.00	80	79	70-130	1	0-27	
Ethylbenzene	50.00	100	99	73-127	0	0-20	
Toluene	50.00	93	93	72-126	0	0-20	
Trichloroethene	50.00	92	93	74-122	1	0-20	
Vinyl Chloride	50.00	96	92	65-131	4	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	92	91	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	107	98	65-131	9	0-22	
Diisopropyl Ether (DIPE)	50.00	93	91	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	90	90	69-123	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	95	96	70-124	1	0-20	
Ethanol	500.0	99	79	41-155	22	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-0694
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,034	**Aqueous**	**GC/MS Q**	**02/10/12**	**02/10/12**	**120210L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	94	96	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	88	88	66-138	54-150	0	0-20	
Chlorobenzene	50.00	103	104	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	103	106	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	101	105	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	89	93	80-129	72-137	3	0-20	
1,1-Dichloroethene	50.00	82	84	71-131	61-141	1	0-20	
Ethylbenzene	50.00	103	104	80-123	73-130	1	0-20	
Toluene	50.00	95	94	79-121	72-128	0	0-20	
Trichloroethene	50.00	95	95	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	96	99	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	89	91	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	102	104	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	92	94	69-129	59-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	89	92	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	93	98	67-133	56-144	5	0-20	
Ethanol	500.0	98	96	47-155	29-173	2	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-02-0694

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY
12-02-0694

Date 2-10-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	2-10-12	0955	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 2-10-12	Time: 1010
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 02/10/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-0694

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 02/10/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-1125

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 02/23/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-02-1125

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: DFSP - Norwalk

Date Received:	02/17/12
Work Order No:	12-02-1125
Preparation:	EPA 5030C
Method:	EPA 8260B
Units:	ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-1125-1-A**	**02/17/12 09:55**	**Aqueous**	**GC/MS Q**	**02/17/12**	**02/17/12 20:10**	**120217L01**

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

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	14	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/17/12
Work Order No: 12-02-1125
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,071**	**N/A**	**Aqueous**	**GC/MS Q**	**02/17/12**	**02/17/12 11:59**	**120217L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/17/12
Work Order No: 12-02-1125
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1056-1	**Aqueous**	**GC/MS Q**	**02/17/12**	**02/17/12**	**120217S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	95	78-120	1	0-20	
Carbon Tetrachloride	50.00	93	91	67-139	2	0-20	
Chlorobenzene	50.00	98	97	80-120	0	0-20	
1,2-Dibromoethane	50.00	105	102	80-123	3	0-20	
1,2-Dichlorobenzene	50.00	93	95	76-120	3	0-20	
1,2-Dichloroethane	50.00	105	103	76-130	2	0-20	
1,1-Dichloroethene	50.00	87	90	70-130	3	0-27	
Ethylbenzene	50.00	98	97	73-127	1	0-20	
Toluene	50.00	98	95	72-126	2	0-20	
Trichloroethene	50.00	93	91	74-122	3	0-20	
Vinyl Chloride	50.00	104	101	65-131	3	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	101	99	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	250.0	103	97	65-131	6	0-22	
Diisopropyl Ether (DIPE)	50.00	99	98	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	98	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	103	102	70-124	2	0-20	
Ethanol	500.0	84	87	41-155	4	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-1125
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,071	**Aqueous**	**GC/MS Q**	**02/17/12**	**02/17/12**	**120217L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	93	100	80-120	73-127	8	0-20	
Carbon Tetrachloride	50.00	93	100	66-138	54-150	6	0-20	
Chlorobenzene	50.00	94	102	80-120	73-127	8	0-20	
1,2-Dibromoethane	50.00	97	106	80-120	73-127	10	0-20	
1,2-Dichlorobenzene	50.00	90	98	80-120	73-127	8	0-20	
1,2-Dichloroethane	50.00	100	107	80-129	72-137	7	0-20	
1,1-Dichloroethene	50.00	88	96	71-131	61-141	9	0-20	
Ethylbenzene	50.00	96	103	80-123	73-130	7	0-20	
Toluene	50.00	94	101	79-121	72-128	7	0-20	
Trichloroethene	50.00	90	97	80-120	73-127	7	0-20	
Vinyl Chloride	50.00	95	103	70-136	59-147	9	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	93	101	72-126	63-135	8	0-22	
Tert-Butyl Alcohol (TBA)	250.0	94	100	71-125	62-134	6	0-25	
Diisopropyl Ether (DIPE)	50.00	93	101	69-129	59-139	8	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	91	98	69-129	59-139	8	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	94	103	67-133	56-144	9	0-20	
Ethanol	500.0	89	85	47-155	29-173	5	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-02-1125

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: 12-02-1125

Date: 2/17/12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP - Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Andreske

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
1	Effluent	2-17-12	0955	GW	3		X						X										

Relinquished by: (Signature) Glenn Andreske — Received by: (Signature/Affiliation) CEL — Date: 2-17-12 — Time: 1005

Relinquished by: (Signature) — Received by: (Signature/Affiliation) — Date: 2/17/12 — Time: 1240

Relinquished by: (Signature) — Received by: (Signature/Affiliation) — Date: — Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-[1][1][2][5]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 02/19/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-1408

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 02/24/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Client Project Name: DFSP - Norwalk
Work Order Number: 12-02-1408

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/23/12
Work Order No: 12-02-1408
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-1408-1-A**	**02/23/12 15:20**	**Aqueous**	**GC/MS V V**	**02/23/12**	**02/23/12 19:02**	**120223L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	80-120		Dibromofluoromethane	119	80-126	
1,2-Dichloroethane-d4	119	80-134		Toluene-d8	102	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/23/12
Work Order No: 12-02-1408
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,111**	**N/A**	**Aqueous**	**GC/MS V V**	**02/23/12**	**02/23/12 17:15**	**120223L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	80-120		Dibromofluoromethane	115	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/23/12
Work Order No: 12-02-1408
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1307-1	**Aqueous**	**GC/MS V V**	**02/23/12**	**02/23/12**	**120223S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	94	78-120	5	0-20	
Carbon Tetrachloride	50.00	95	89	67-139	6	0-20	
Chlorobenzene	50.00	96	97	80-120	1	0-20	
1,2-Dibromoethane	50.00	99	94	80-123	5	0-20	
1,2-Dichlorobenzene	50.00	93	93	76-120	0	0-20	
1,2-Dichloroethane	50.00	101	96	76-130	5	0-20	
1,1-Dichloroethene	50.00	88	87	70-130	1	0-27	
Ethylbenzene	50.00	100	97	73-127	3	0-20	
Toluene	50.00	99	95	72-126	4	0-20	
Trichloroethene	50.00	95	90	74-122	5	0-20	
Vinyl Chloride	50.00	97	94	65-131	4	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	91	96	69-123	5	0-20	
Tert-Butyl Alcohol (TBA)	250.0	106	100	65-131	7	0-22	
Diisopropyl Ether (DIPE)	50.00	98	102	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	94	93	69-123	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	98	100	70-124	1	0-20	
Ethanol	500.0	114	113	41-155	0	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-1408
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,111	**Aqueous**	**GC/MS V V**	**02/23/12**	**02/23/12**	**120223L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	102	99	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	103	98	66-138	54-150	5	0-20	
Chlorobenzene	50.00	101	98	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	103	101	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	102	98	80-120	73-127	4	0-20	
1,2-Dichloroethane	50.00	102	98	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	87	98	71-131	61-141	11	0-20	
Ethylbenzene	50.00	107	104	80-123	73-130	2	0-20	
Toluene	50.00	102	100	79-121	72-128	1	0-20	
Trichloroethene	50.00	99	98	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	112	110	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	103	95	72-126	63-135	8	0-22	
Tert-Butyl Alcohol (TBA)	250.0	96	94	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	101	100	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	98	97	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	102	101	67-133	56-144	1	0-20	
Ethanol	500.0	112	113	47-155	29-173	1	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-02-1408

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY
12-02-1408

Date 2-23-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

TEL: 626-440-6032

E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP- Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF

GLOBAL ID

LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	2-23-12	1520	GW	3		X						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) Rudy M CEL	Date: 2-23-12	Time: 1535
Relinquished by: (Signature) Rudy Mp	Received by: (Signature/Affiliation) Dannyle CEL	Date: 2/23/12	Time: 16:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-1404

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 02/23/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

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 Initial: BM

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

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

☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-1466

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Approved for release on 03/2/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Work Order Number: 12-02-1466

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-1466-1-I**	**02/24/12 10:00**	**Aqueous**	**GC 47**	**02/29/12**	**02/29/12 17:46**	**120229B04**

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

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-249-952**	**N/A**	**Aqueous**	**GC 47**	**02/29/12**	**02/29/12 15:17**	**120229B04**

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

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-1466-1-E**	**02/24/12 10:00**	**Aqueous**	**GC 24**	**02/28/12**	**02/28/12 16:34**	**120228B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	80	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-5,727**	**N/A**	**Aqueous**	**GC 24**	**02/28/12**	**02/28/12 12:38**	**120228B01**

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

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-02-1466-1-B**	**02/24/12 10:00**	**Aqueous**	**GC/MS WW**	**02/27/12**	**02/27/12 14:46**	**120227L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,124**	**N/A**	**Aqueous**	**GC/MS WW**	**02/27/12**	**02/27/12 14:17**	**120227L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	99	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.		Date Received:	02/24/12
100 West Walnut Street		Work Order No:	12-02-1466
Pasadena, CA 91124-0002		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
Effluent	**12-02-1466-1-H**	**02/24/12 10:00**	**Aqueous**	**ICP/MS 04**	**02/27/12**	**02/27/12 23:11**	**120227L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0222	0.00100	1		Selenium	ND	0.00100	1	
Copper	0.00107	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,661**	**N/A**	**Aqueous**	**ICP/MS 04**	**02/27/12**	**02/27/12 22:33**	**120227L05**

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/24/12
Work Order No: 12-02-1466

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-02-1466-1**	**02/24/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	03/02/12	03/02/12	EPA 420.1
Turbidity	0.12	0.050	1		NTU	N/A	02/24/12	SM 2130 B
Solids, Total Suspended	ND	1.0	1		mg/L	02/27/12	02/27/12	SM 2540 D
Solids, Settleable	ND	0.10	1		mL/L/hr	02/24/12	02/24/12	SM 2540 F
pH	7.27	0.01	1		pH units	N/A	02/24/12	SM 4500 H+ B
Sulfide, Total	ND	0.050	1		mg/L	02/29/12	02/29/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	02/24/12	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	02/28/12	02/28/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	02/24/12	02/24/12	SM 5540C

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

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	ND	0.10	1		mg/L	03/02/12	03/02/12	EPA 420.1
Solids, Total Suspended	ND	1.0	1		mg/L	02/27/12	02/27/12	SM 2540 D
Sulfide, Total	ND	0.050	1		mg/L	02/29/12	02/29/12	SM 4500 S2 - D
Chlorine, Total Residual	ND	0.10	1		mg/L	N/A	02/24/12	SM 4500-Cl F
Oil and Grease	ND	1.0	1		mg/L	02/28/12	02/28/12	SM 5520 B
MBAS	ND	0.10	1		mg/L	02/24/12	02/24/12	SM 5540C

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 3020A Total
Method: EPA 6020

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**ICP/MS 04**	**02/27/12**	**02/27/12**	**120227S05**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	96	91	73-127	4	0-11	
Copper	0.1000	96	96	72-108	0	0-10	
Lead	0.1000	108	108	79-121	0	0-10	
Selenium	0.1000	83	83	59-125	0	0-12	
Zinc	0.1000	123	87	43-145	35	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received	02/24/12
100 West Walnut Street		Work Order No:	12-02-1466
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
Effluent	**Aqueous**	**ICP/MS 04**	**02/27/12**	**02/27/12**	**120227S05**

Analysis Comment: * - Analyzed 2/29/2012 7:28:53 PM

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	87	87	75-125	0	0-11	
Copper	0.1000	89	90	75-125	2	0-10	
Lead	0.1000	103	105	75-125	2	0-10	
Selenium	0.1000	79	79	75-125	0	0-12	
Zinc	0.1000	78	82	75-125	5	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1524-1	**Aqueous**	**GC 24**	**02/28/12**	**02/28/12**	**120228S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	83	83	68-122	0	0-18	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 02/24/12
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS WW**	**02/27/12**	**02/27/12**	**120227S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	96	78-120	0	0-20	
Carbon Tetrachloride	50.00	95	95	67-139	1	0-20	
Chlorobenzene	50.00	98	96	80-120	1	0-20	
1,2-Dibromoethane	50.00	94	93	80-123	0	0-20	
1,2-Dichlorobenzene	50.00	98	99	76-120	1	0-20	
1,2-Dichloroethane	50.00	96	94	76-130	2	0-20	
1,1-Dichloroethene	50.00	89	86	70-130	4	0-27	
Ethylbenzene	50.00	99	98	73-127	1	0-20	
Toluene	50.00	96	95	72-126	2	0-20	
Trichloroethene	50.00	95	95	74-122	1	0-20	
Vinyl Chloride	50.00	118	116	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	95	95	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	108	101	65-131	7	0-22	
Diisopropyl Ether (DIPE)	50.00	97	95	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	97	96	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	100	98	70-124	2	0-20	
Ethanol	500.0	98	98	41-155	0	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-1466

Project: DFSP - Norwalk

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chlorine, Total Residual	SM 4500-Cl F	Effluent	02/24/12	ND	ND	NA	0-25	
Turbidity	SM 2130 B	Effluent	02/24/12	0.12	0.11	9	0-25	
pH	SM 4500 H+ B	12-02-1446-1	02/24/12	7.54	7.50	1	0-25	
Sulfide, Total	SM 4500 S2 - D	12-02-1507-2	02/29/12	ND	ND	NA	0-25	
Solids, Settleable	SM 2540 F	12-02-1524-1	02/24/12	ND	ND	NA	0-25	
Solids, Total Suspended	SM 2540 D	12-02-1463-1	02/27/12	ND	ND	NA	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-02-1466
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,661	**Aqueous**	**ICP/MS 04**	**02/27/12**	**02/27/12**	**120227L05**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	93	92	80-120	1	0-20	
Copper	0.1000	92	93	80-120	1	0-20	
Lead	0.1000	97	97	80-120	1	0-20	
Selenium	0.1000	99	99	80-120	0	0-20	
Zinc	0.1000	92	93	80-120	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-02-1466
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-249-952	**Aqueous**	**GC 47**	**02/29/12**	**02/29/12**	**120229B04**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	100	104	75-117	4	0-13	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-02-1466
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,727	**Aqueous**	**GC 24**	**02/28/12**	**02/28/12**	**120228B01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	89	89	78-120	0	0-10	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-1466
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,124	**Aqueous**	**GC/MS WW**	**02/27/12**	**02/27/12**	**120227L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	96	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	99	100	66-138	54-150	1	0-20	
Chlorobenzene	50.00	95	96	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	93	95	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	99	98	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	95	95	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	88	88	71-131	61-141	1	0-20	
Ethylbenzene	50.00	98	98	80-123	73-130	0	0-20	
Toluene	50.00	95	95	79-121	72-128	0	0-20	
Trichloroethene	50.00	99	97	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	119	123	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	97	100	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	89	90	71-125	62-134	0	0-25	
Diisopropyl Ether (DIPE)	50.00	96	96	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	100	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	105	104	67-133	56-144	1	0-20	
Ethanol	500.0	99	99	47-155	29-173	1	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-02-1466

Project: DFSP - Norwalk

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Phenolics, Total	EPA 420.1	099-05-085-2,492	03/02/12	03/02/12	97	97	80-120	0	0-20	
MBAS	SM 5540C	099-05-093-2,322	02/24/12	02/24/12	96	95	80-120	1	0-20	
Oil and Grease	SM 5520 B	099-05-081-2,834	02/28/12	02/28/12	97	98	80-120	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-02-1466

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: **12-02-1466**

Date 2-24-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

TEL: 626-440-6032

E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	~~TPH (g) or GRO~~ Sm 2130B Turbidity	~~TPH (d) or DRO or (C6-C36) or (C6-C44)~~ 8.1 + Grease Sm 5520B	~~TPH~~ pH Sm 4500-H+B	~~BTEX / MTBE (8260)~~ TPH g+d 8015B (M)	VOCs (8260B) + Oxys	~~Oxygenates (8260)~~ TSS Sm 2540D	~~En Core / Terra Core Prep (5035)~~ Sm 2540F Settleds	~~SVOCs (8270)~~ Solids Sm 2540G	~~Pesticides (8081)~~ Phenolics 420.1	~~PCBs (8082)~~ Resid. Cl Sm4500CLF	PNAs (8310) or (8270)	~~TTLC~~ Metals (6020/7471A) As, Cu, Se, Pb, Zn	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
1	Effluent	2-24-12	1000	GW	~~4~~ 14	~~2~~ 4	10		X	X	X	X	X	X	X	X	X	X		X			

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) COEL	Date: 2-24-12	Time: 1038
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 2/24/12	Time: 1210
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-1466

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 02/24/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: RH

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Ranjit Clarke

From: Zicker, Cindy [Cindy.Zicker@parsons.com]
Sent: Saturday, February 25, 2012 11:39 PM
To: Ranjit Clarke
Cc: Lucas, Mary
Subject: RE: DFSP - Norwalk (Quarterly)

Yes, please add.
Thanks,
Cindy

From: Ranjit Clarke [mailto:rclarke@calscience.com]
Sent: Friday, February 24, 2012 5:10 PM
To: Zicker, Cindy; Lucas, Mary
Subject: COC: DFSP - Norwalk (Quarterly)

Mary/Cindy,

Surfactants (SM 5540C) is not listed on the COC. Was this an oversight?

Ranjit Clarke
Project Manager
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x222
Fax: 714-894-7501
rclarke@calscience.com

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0150

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 03/5/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-03-0150

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/02/12
Work Order No: 12-03-0150
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-0150-1-A**	**03/02/12 11:00**	**Aqueous**	**GC/MS OO**	**03/02/12**	**03/02/12 18:37**	**120302L01**

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

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	13	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/02/12
Work Order No: 12-03-0150
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,167**	**N/A**	**Aqueous**	**GC/MS OO**	**03/02/12**	**03/02/12 14:07**	**120302L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/02/12
Work Order No: 12-03-0150
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0082-5	**Aqueous**	**GC/MS OO**	**03/02/12**	**03/02/12**	**120302S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	99	78-120	2	0-20	
Carbon Tetrachloride	50.00	113	116	67-139	3	0-20	
Chlorobenzene	50.00	100	102	80-120	2	0-20	
1,2-Dibromoethane	50.00	99	101	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	100	104	76-120	3	0-20	
1,2-Dichloroethane	50.00	106	111	76-130	4	0-20	
1,1-Dichloroethene	50.00	98	97	70-130	0	0-27	
Ethylbenzene	50.00	100	102	73-127	2	0-20	
Toluene	50.00	99	101	72-126	3	0-20	
Trichloroethene	50.00	93	95	74-122	1	0-20	
Vinyl Chloride	50.00	102	103	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	96	100	69-123	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	98	98	65-131	0	0-22	
Diisopropyl Ether (DIPE)	50.00	97	100	68-128	4	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	95	98	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	95	99	70-124	4	0-20	
Ethanol	500.0	99	94	41-155	4	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-0150
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,167	**Aqueous**	**GC/MS OO**	**03/02/12**	**03/02/12**	**120302L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	99	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	116	118	66-138	54-150	2	0-20	
Chlorobenzene	50.00	104	104	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	106	107	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	104	106	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	110	109	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	107	106	71-131	61-141	0	0-20	
Ethylbenzene	50.00	103	105	80-123	73-130	1	0-20	
Toluene	50.00	100	101	79-121	72-128	1	0-20	
Trichloroethene	50.00	104	104	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	109	106	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	104	103	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	102	103	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	102	101	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	100	99	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	101	100	67-133	56-144	2	0-20	
Ethanol	500.0	104	101	47-155	29-173	3	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-0150

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY
12-03-0150

Date 3-2-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	3-2-12	1100	GW	3		X						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) Jensen Tang	Date: 3-2-12	Time: 1222
Relinquished by: (Signature) Jensen Tang	Received by: (Signature/Affiliation) Danyle CSE	Date: 3/2/12	Time: 13:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0150

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Parsons DATE: 03/02/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

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 Initial: JY

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0363

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 03/13/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-03-0363

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/06/12
Work Order No: 12-03-0363
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-0363-1-A**	**03/06/12 10:00**	**Aqueous**	**GC/MS WW**	**03/07/12**	**03/08/12 04:03**	**120307L02**

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

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	8.0	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	80-120		Dibromofluoromethane	92	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/06/12
Work Order No: 12-03-0363
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,208**	**N/A**	**Aqueous**	**GC/MS WW**	**03/07/12**	**03/08/12 02:37**	**120307L02**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	92	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	101	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/06/12
Work Order No: 12-03-0363
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS WW**	**03/07/12**	**03/08/12**	**120307S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	106	108	78-120	2	0-20	
Carbon Tetrachloride	50.00	94	94	67-139	1	0-20	
Chlorobenzene	50.00	110	106	80-120	3	0-20	
1,2-Dibromoethane	50.00	102	108	80-123	6	0-20	
1,2-Dichlorobenzene	50.00	111	113	76-120	2	0-20	
1,2-Dichloroethane	50.00	109	112	76-130	3	0-20	
1,1-Dichloroethene	50.00	115	115	70-130	0	0-27	
Ethylbenzene	50.00	101	107	73-127	6	0-20	
Toluene	50.00	105	107	72-126	2	0-20	
Trichloroethene	50.00	99	102	74-122	3	0-20	
Vinyl Chloride	50.00	120	123	65-131	3	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	94	97	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	111	127	65-131	13	0-22	
Diisopropyl Ether (DIPE)	50.00	99	99	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	92	86	69-123	7	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	90	103	70-124	13	0-20	
Ethanol	500.0	134	152	41-155	12	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-0363
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,208	**Aqueous**	**GC/MS WW**	**03/07/12**	**03/08/12**	**120307L02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	105	102	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	102	91	66-138	54-150	11	0-20	
Chlorobenzene	50.00	110	108	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	106	100	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	50.00	110	108	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	110	106	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	126	110	71-131	61-141	14	0-20	
Ethylbenzene	50.00	102	98	80-123	73-130	3	0-20	
Toluene	50.00	106	102	79-121	72-128	4	0-20	
Trichloroethene	50.00	104	97	80-120	73-127	7	0-20	
Vinyl Chloride	50.00	133	118	70-136	59-147	12	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	103	95	72-126	63-135	8	0-22	
Tert-Butyl Alcohol (TBA)	250.0	101	102	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	109	98	69-129	59-139	11	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	104	93	69-129	59-139	11	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	103	99	67-133	56-144	4	0-20	
Ethanol	500.0	120	125	47-155	29-173	4	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-0363

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: **12-03-0363**

Date: 3-6-12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	3-6-12	1000	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CCL	Date: 3-6-12 / Time: 1532
Relinquished by: (Signature) Rudy Ayp	Received by: (Signature/Affiliation) CCL	Date: 3-6-12 / Time: 1635
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: / Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0363

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 03/6/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0677

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 03/12/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-03-0677

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/09/12
Work Order No: 12-03-0677
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-0677-1-A**	**03/09/12 10:15**	**Aqueous**	**GC/MS WW**	**03/09/12**	**03/09/12 17:38**	**120309L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	89	80-134		Toluene-d8	95	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/09/12
Work Order No: 12-03-0677
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,229**	**N/A**	**Aqueous**	**GC/MS WW**	**03/09/12**	**03/09/12 15:13**	**120309L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	97	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/09/12
Work Order No: 12-03-0677
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0560-1	**Aqueous**	**GC/MS WW**	**03/09/12**	**03/09/12**	**120309S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	94	78-120	2	0-20	
Carbon Tetrachloride	50.00	95	98	67-139	2	0-20	
Chlorobenzene	50.00	120	120	80-120	0	0-20	
1,2-Dibromoethane	50.00	108	107	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	116	116	76-120	0	0-20	
1,2-Dichloroethane	50.00	95	93	76-130	2	0-20	
1,1-Dichloroethene	50.00	94	94	70-130	0	0-27	
Ethylbenzene	50.00	102	102	73-127	0	0-20	
Toluene	50.00	93	92	72-126	1	0-20	
Trichloroethene	50.00	110	108	74-122	2	0-20	
Vinyl Chloride	50.00	95	90	65-131	6	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	88	87	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	250.0	100	101	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	92	92	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	85	82	69-123	3	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	88	84	70-124	4	0-20	
Ethanol	500.0	125	123	41-155	2	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-0677
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,229	**Aqueous**	**GC/MS WW**	**03/09/12**	**03/09/12**	**120309L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	95	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	102	104	66-138	54-150	2	0-20	
Chlorobenzene	50.00	121	118	80-120	73-127	2	0-20	ME
1,2-Dibromoethane	50.00	113	111	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	116	113	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	97	95	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	95	95	71-131	61-141	0	0-20	
Ethylbenzene	50.00	104	103	80-123	73-130	1	0-20	
Toluene	50.00	93	94	79-121	72-128	1	0-20	
Trichloroethene	50.00	111	113	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	91	89	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	90	88	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	96	92	71-125	62-134	4	0-25	
Diisopropyl Ether (DIPE)	50.00	92	92	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	84	83	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	88	87	67-133	56-144	1	0-20	
Ethanol	500.0	115	110	47-155	29-173	5	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-0677

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WORK ORDER NUMBER: 12-03-0677

Date 3-9-12

Page _____ of _____

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

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

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	3/9/12	1015	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 3-9-12 Time: 1500
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/9/12 Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0677

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 03/9/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-1183

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 03/23/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories 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 provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: DFSP - Norwalk
Work Order Number: 12-03-1183

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/16/12
Work Order No: 12-03-1183
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1183-1-A**	**03/16/12 09:30**	**Aqueous**	**GC/MS LL**	**03/16/12**	**03/17/12 04:36**	**120316L02**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	94	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	98	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 03/16/12
Work Order No: 12-03-1183
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,305**	**N/A**	**Aqueous**	**GC/MS LL**	**03/16/12**	**03/17/12 02:10**	**120316L02**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/16/12
Work Order No: 12-03-1183
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-1188-1	**Aqueous**	**GC/MS LL**	**03/16/12**	**03/17/12**	**120316S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	97	78-120	3	0-20	
Carbon Tetrachloride	50.00	102	101	67-139	1	0-20	
Chlorobenzene	50.00	92	90	80-120	3	0-20	
1,2-Dibromoethane	50.00	95	95	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	89	89	76-120	1	0-20	
1,2-Dichloroethane	50.00	101	98	76-130	4	0-20	
1,1-Dichloroethene	50.00	90	89	70-130	1	0-27	
Ethylbenzene	50.00	99	96	73-127	3	0-20	
Toluene	50.00	100	95	72-126	5	0-20	
Trichloroethene	50.00	98	95	74-122	3	0-20	
Vinyl Chloride	50.00	93	90	65-131	4	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	103	104	69-123	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	104	106	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	97	97	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	101	100	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	106	102	70-124	4	0-20	
Ethanol	500.0	82	80	41-155	2	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-1183
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,305	**Aqueous**	**GC/MS LL**	**03/16/12**	**03/17/12**	**120316L02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	94	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	96	94	66-138	54-150	2	0-20	
Chlorobenzene	50.00	88	87	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	93	92	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	85	86	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	96	95	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	89	86	71-131	61-141	4	0-20	
Ethylbenzene	50.00	94	94	80-123	73-130	0	0-20	
Toluene	50.00	96	93	79-121	72-128	3	0-20	
Trichloroethene	50.00	94	92	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	87	84	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	101	98	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	100	99	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	94	93	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	96	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	104	101	67-133	56-144	3	0-20	
Ethanol	500.0	66	78	47-155	29-173	17	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-1183

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY: **12-03-1183**

Date: 3-16-12

Page: 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

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

CLIENT PROJECT NAME / NUMBER: DFSP-Norwalk

P.O. NO.:

PROJECT CONTACT: Mary.Lucas@Parsons.com

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	3-16-12	0930	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) CEL	Date: 3-16-12	Time: 1200
Relinquished by: (Signature) Alex Mayer	Received by: (Signature/Affiliation) CEL	Date: 03-16-12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-1183

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 03/16/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ **Blank** ☐ **Sample**

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

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

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

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

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐ 3/16/12
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-1631

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP - Norwalk

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

Ranjit K. K. Clarke

Approved for release on 03/30/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

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

Calscience Environmental Laboratories, Inc.

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Client Project Name: DFSP - Norwalk
Work Order Number: 12-03-1631

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	03/23/12
100 West Walnut Street		Work Order No:	12-03-1631
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1631-1-A**	**03/23/12 10:55**	**Aqueous**	**GC/MS JJ**	**03/24/12**	**03/24/12 20:10**	**120324L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	97	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/23/12
Work Order No: 12-03-1631
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP - Norwalk

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,382**	**N/A**	**Aqueous**	**GC/MS JJ**	**03/24/12**	**03/24/12 12:09**	**120324L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	5.0	1		Methylene Chloride	ND	5.0	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	0.50	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	115	80-134		Toluene-d8	97	80-120	

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

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/23/12
Work Order No: 12-03-1631
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-1473-10	**Aqueous**	**GC/MS JJ**	**03/24/12**	**03/24/12**	**120324S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	89	78-120	3	0-20	
Carbon Tetrachloride	50.00	100	98	67-139	2	0-20	
Chlorobenzene	50.00	94	90	80-120	5	0-20	
1,2-Dibromoethane	50.00	102	100	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	97	95	76-120	2	0-20	
1,2-Dichloroethane	50.00	98	94	76-130	4	0-20	
1,1-Dichloroethene	50.00	87	87	70-130	0	0-27	
Ethylbenzene	50.00	109	106	73-127	3	0-20	
Toluene	50.00	103	99	72-126	3	0-20	
Trichloroethene	50.00	98	95	74-122	3	0-20	
Vinyl Chloride	50.00	86	87	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	122	124	69-123	1	0-20	3
Tert-Butyl Alcohol (TBA)	250.0	220	185	65-131	17	0-22	3
Diisopropyl Ether (DIPE)	50.00	109	109	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	124	128	69-123	3	0-21	3
Tert-Amyl-Methyl Ether (TAME)	50.00	122	122	70-124	0	0-20	
Ethanol	500.0	77	77	41-155	0	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-1631
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP - Norwalk

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,382	**Aqueous**	**GC/MS JJ**	**03/24/12**	**03/24/12**	**120324L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	99	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	100	98	66-138	54-150	2	0-20	
Chlorobenzene	50.00	93	91	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	102	102	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	96	95	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	96	97	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	90	90	71-131	61-141	1	0-20	
Ethylbenzene	50.00	109	106	80-123	73-130	2	0-20	
Toluene	50.00	101	101	79-121	72-128	0	0-20	
Trichloroethene	50.00	99	97	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	88	88	70-136	59-147	0	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	123	125	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	98	118	71-125	62-134	18	0-25	
Diisopropyl Ether (DIPE)	50.00	109	109	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	127	129	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	126	128	67-133	56-144	2	0-20	
Ethanol	500.0	73	90	47-155	29-173	21	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-1631

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

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

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Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

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

WO # / LAB USE ONLY
12-03-1631

Date 3-23-12

Page 1 of 1

LABORATORY CLIENT: Parsons

ADDRESS: 100 W. Walnut St

CITY: Pasadena STATE: CA ZIP:

TEL: 626-440-6032

E-MAIL: Mary.Lucas@Parsons.com

CLIENT PROJECT NAME / NUMBER: DFSP - Norwalk

P.O. NO.:

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (PRINT) Glenn Androsko

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

☐ COELT EDF

GLOBAL ID

LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]			
1	Effluent	3-23-12	1055	GW	3		3						X													

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature/Affiliation) Rudy CCL	Date: 3-23-12	Time: 1315
Relinquished by: (Signature) Rudy	Received by: (Signature/Affiliation) CCL	Date: 3/23/12	Time: 1414
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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

06/01/10 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-1631

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS DATE: 03/23/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter Initial: GM

CUSTODY SEALS INTACT:

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-1888

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Parsons, Inc.

Client Project Name: DFSP Norwalk - Monthly

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

Approved for release on 04/5/2012 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc.

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Client Project Name: DFSP Norwalk - Monthly
Work Order Number: 12-03-1888

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.	Date Received: 03/28/12
100 West Walnut Street	Work Order No: 12-03-1888
Pasadena, CA 91124-0002	Preparation: EPA 3510C
	Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1888-1-H**	**03/28/12 14:45**	**Aqueous**	**GC 46**	**03/29/12**	**03/29/12 21:04**	**120329B10**

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-249-961**	**N/A**	**Aqueous**	**GC 46**	**03/29/12**	**03/29/12 19:49**	**120329B10**

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

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

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.	Date Received: 03/28/12
100 West Walnut Street	Work Order No: 12-03-1888
Pasadena, CA 91124-0002	Preparation: EPA 5030C
	Method: EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1888-1-E**	**03/28/12 14:45**	**Aqueous**	**GC 24**	**03/29/12**	**03/29/12 14:45**	**120329B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	75	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-247-5,793**	**N/A**	**Aqueous**	**GC 24**	**03/29/12**	**03/29/12 11:57**	**120329B01**

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

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	78	38-134	

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1888-1-A**	**03/28/12 14:45**	**Aqueous**	**GC/MS CC**	**03/29/12**	**03/29/12 15:01**	**120329L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	95	80-134		Toluene-d8	99	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,406**	**N/A**	**Aqueous**	**GC/MS CC**	**03/29/12**	**03/29/12 14:33**	**120329L01**

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

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

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	99	80-120	

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

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Calscience Environmental Laboratories, Inc.

Analytical Report

Parsons, Inc.		Date Received:	03/28/12
100 West Walnut Street		Work Order No:	12-03-1888
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020
		Units:	mg/L
Project: DFSP Norwalk - Monthly			Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Effluent	**12-03-1888-1-G**	**03/28/12 14:45**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12 15:32**	**120329L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0221	0.00100	1		Selenium	ND	0.00100	1	
Copper	ND	0.00100	1		Zinc	ND	0.00500	1	
Lead	ND	0.00100	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-3,707**	**N/A**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12 13:54**	**120329L01**

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888

Project: DFSP Norwalk - Monthly

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Effluent	**12-03-1888-1**	**03/28/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Turbidity	0.18	0.050	1		NTU	N/A	03/28/12	SM 2130 B
pH	7.23	0.01	1		pH units	N/A	03/28/12	SM 4500 H+ B
Oil and Grease	ND	1.0	1		mg/L	03/30/12	03/30/12	SM 5520 B

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

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0	1		mg/L	03/30/12	03/30/12	SM 5520 B

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-1736-1	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12**	**120329S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	110	107	73-127	3	0-11	
Copper	0.1000	101	97	72-108	4	0-10	
Lead	0.1000	111	109	79-121	2	0-10	
Selenium	0.1000	97	95	59-125	1	0-12	
Zinc	0.1000	102	98	43-145	3	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received	03/28/12
100 West Walnut Street		Work Order No:	12-03-1888
Pasadena, CA 91124-0002		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-03-1736-1	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12**	**120329S01**

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	96	96	75-125	0	0-11	
Copper	0.1000	94	93	75-125	1	0-10	
Lead	0.1000	105	105	75-125	1	0-10	
Selenium	0.1000	82	81	75-125	0	0-12	
Zinc	0.1000	87	85	75-125	1	0-39	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC 24**	**03/29/12**	**03/29/12**	**120329S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	96	102	68-122	6	0-18	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 03/28/12
Work Order No: 12-03-1888
Preparation: EPA 5030C
Method: EPA 8260B

Project DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Effluent	**Aqueous**	**GC/MS CC**	**03/29/12**	**03/29/12**	**120329S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	112	112	78-120	0	0-20	
Carbon Tetrachloride	50.00	105	109	67-139	3	0-20	
Chlorobenzene	50.00	100	98	80-120	2	0-20	
1,2-Dibromoethane	50.00	101	100	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	98	101	76-120	2	0-20	
1,2-Dichloroethane	50.00	109	110	76-130	1	0-20	
1,1-Dichloroethene	50.00	113	117	70-130	3	0-27	
Ethylbenzene	50.00	109	109	73-127	0	0-20	
Toluene	50.00	108	108	72-126	0	0-20	
Trichloroethene	50.00	109	108	74-122	1	0-20	
Vinyl Chloride	50.00	87	90	65-131	4	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	106	111	69-123	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	110	110	65-131	0	0-22	
Diisopropyl Ether (DIPE)	50.00	101	99	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	110	111	69-123	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	105	108	70-124	3	0-20	
Ethanol	500.0	88	93	41-155	6	0-35	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-1888

Project: DFSP Norwalk - Monthly

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Turbidity	SM 2130 B	Effluent	03/28/12	0.18	0.17	6	0-25	
pH	SM 4500 H+ B	12-03-1873-1	03/28/12	8.71	8.71	0	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-03-1888
Pasadena, CA 91124-0002		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-3,707	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12**	**120329L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	105	104	80-120	1	0-20	
Copper	0.1000	106	106	80-120	0	0-20	
Lead	0.1000	103	102	80-120	1	0-20	
Selenium	0.1000	103	103	80-120	0	0-20	
Zinc	0.1000	109	107	80-120	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-03-1888
Pasadena, CA 91124-0002		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-249-961	**Aqueous**	**GC 46**	**03/29/12**	**04/02/12**	**120329B10**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	96	98	75-117	2	0-13	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Parsons, Inc.		Date Received:	N/A
100 West Walnut Street		Work Order No:	12-03-1888
Pasadena, CA 91124-0002		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,793	**Aqueous**	**GC 24**	**03/29/12**	**03/29/12**	**120329B01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	100	99	78-120	0	0-10	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-1888
Preparation: EPA 5030C
Method: EPA 8260B

Project: DFSP Norwalk - Monthly

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,406	**Aqueous**	**GC/MS CC**	**03/29/12**	**03/29/12**	**120329L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	110	109	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	103	107	66-138	54-150	4	0-20	
Chlorobenzene	50.00	97	96	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	101	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	99	93	80-120	73-127	6	0-20	
1,2-Dichloroethane	50.00	109	105	80-129	72-137	4	0-20	
1,1-Dichloroethene	50.00	113	113	71-131	61-141	0	0-20	
Ethylbenzene	50.00	108	106	80-123	73-130	2	0-20	
Toluene	50.00	106	105	79-121	72-128	1	0-20	
Trichloroethene	50.00	109	105	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	84	88	70-136	59-147	4	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	107	105	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	103	104	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	95	95	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	97	106	69-129	59-139	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	107	105	67-133	56-144	2	0-20	
Ethanol	500.0	82	88	47-155	29-173	8	0-36	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 12-03-1888

Project: DFSP Norwalk - Monthly

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Oil and Grease	SM 5520 B	099-05-081-2,840	03/30/12	03/30/12	97	95	80-120	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-1888

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

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

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

CHAIN OF CUSTODY RECORD

DATE: 3-28-12

PAGE: 1 OF 1

LABORATORY CLIENT: Parsons, Inc.

100 W. Walnut Street

CITY: Paasadena, CA 91124

TEL: | FAX: | E-MAIL

CLIENT PROJECT NAME / NUMBER: DFSP Norwalk - Monthly

PROJECT CONTACT: Mary Lucas / Cindy Zicker

SAMPLER(S): (SIGNATURE) Glenn Andrusko

P.O. NO.:

QUOTE NO.:

LAB USE ONLY 12-03-1888

TURNAROUND TIME

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

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

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

SPECIAL INSTRUCTIONS

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Turbidity (SM 2130B)	Oil & Grease (SM 5520B)	pH (SM 4500 H+B)	TPH-Diesel/Gas (EPA 8015B(M))	VOCs + Oxys (EPA 8260B)	Metals (EPA 6020: As,Cu,Se,Pb,Zn)						Comments
1	Effluent		3-28-12	1445	W	10	X	X	X	X	X	X						

Relinquished by: (Signature) Glenn Andrusko	Received by: (Signature) CEL	Date: 3-28-12	Time: 1540
Relinquished by: (Signature)	Received by: (Signature) Danny Le CEL	Date: 3/28/12	Time: 16:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 08/28/08

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-1888

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSons DATE: 03/28/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

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

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

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

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

CUSTODY SEALS INTACT:

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

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

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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ATTACHMENT C

Groundwater Treatment System Monitoring Logs

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 1-16-12 TIME: 1235 WEATHER: P.Cloudy 60°

OPERATOR NAME: G.Androsky REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	38	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	40	P8-P9	0		
MX-21 (large)	P9	40	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	23	P11-P12	0		
GAC - 3	P12	23	P13	23	P12-P13	0		
Ion Exchange	P13	23	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.5	8969379.5	8968192.3	-	
Wells: GW-15	7	5311462	5310373	-	
Wells: GW-16	6.8	2921750.0	29206900	-	
NPDES Discharge	30	58794682	58789930	-	

90

77
8
62

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Restarted system @ 1100. Changed MX-7 filters @ 1215. System was off from 1215-1230
Restarted again @ 1230

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 01-18-2012 TIME: 1416 WEATHER: SUNNY

OPERATOR NAME: Milton L Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	48	P3	12	P2-P3	0		
BF2 (Center)	P4	46	P5	14	P4-P5	0		
BF3 (West)	P6	50	P7	15	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	15	P9	13	P8-P9	0		
MX-21 (large)	P9	13	P10	7	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	7	P11	7	P10-P11	0		
GAC - 2	P11	7	P12	8	P11-P12	0		
GAC - 3	P12	8	P13	7.5	P12-P13	0		
Ion Exchange	P13	7.5	P14	4.5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.3	8994848.6	8969379.5	-	
Wells: GW-15	10	5328800	5311462	-	
Wells: GW-16	6.5	2939247.0	2921750.0	-	
NPDES Discharge	8	58851400	58794682	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 1-19-12 TIME: 1453 WEATHER: Sunny 65°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	38	P2-P3	0		
BF2 (Center)	P4	36	P5	38	P4-P5	0		
BF3 (West)	P6	39	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	39	P8-P9	0		
MX-21 (large)	P9	39	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	8998156.0	8994848.6	-	
Wells: GW-15	7.0	5331215	5328800	-	
Wells: GW-16	6.6	2941310.0	2937247.0	-	
NPDES Discharge	35	58860565	58851400	-	

Bb
4
65

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0900-1100 to change BF-1,2,3 and MX-7 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 1-20-12 TIME: 0820 WEATHER: Sunny

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	38	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	40	P8-P9	0		
MX-21 (large)	P9	40	P10	27	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	27	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9007740.5	8998156.0	-	
Wells: GW-15	6.5	5338120	5331215	-	
Wells: GW-16	6.8	2948357.0	2941310.0	-	
NPDES Discharge	35	58881865	58860565	-	

8
55

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify)_____

NOTES / DAILY TASK SUMMARY

Collected effluent sample @ 0825. Collected surge tank sample @ 0830

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 1-23-12 TIME: 1030 WEATHER: 48° Rain

OPERATOR NAME: G. AndrosKo REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	39	P2-P3	0	—	
BF2 (Center)	P4	39	P5	39	P4-P5	0		
BF3 (West)	P6	40	P7	41	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	42	P8-P9	0		
MX-21 (large)	P9	42	P10	28	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	28	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	23	P11-P12	0		
GAC - 3	P12	23	P13	23	P12-P13	0		
Ion Exchange	P13	23	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.5	9028409.5	9007740.5	-	
Wells: GW-15	7.0	5353010	5338120	-	
Wells: GW-16	4.5	2963358.0	2948357.0	-	
NPDES Discharge	34	58929920	58881865	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify)_____

NOTES / DAILY TASK SUMMARY

Delta P on bag filters was 30 psi @ 0840 Shut down system and changed MX-7 and BF-1, 2+3 filters
Restarted system at 1020

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

DATE: T 1-24-12 TIME: 1045 WEATHER: Sun 60°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	31	P3	28	P2-P3	0		
BF2 (Center)	P4	40	P5	32	P4-P5	0		
BF3 (West)	P6	42	P7	34	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	33	P9	32	P8-P9	0		
MX-21 (large)	P9	32	P10	20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify	
GAC - 1	P10	20	P11	17	P10-P11	0		
GAC - 2	P11	17	P12	17	P11-P12	0		
GAC - 3	P12	16	P13	16	P12-P13	0		
Ion Exchange	P13	16	P14	4	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9041552.0	9028409.5	-	
Wells: GW-15	6.0	5362295	5353010	-	
Wells: GW-16	6.5	2972586.5	2963358.0	-	
NPDES Discharge	29	58960120	58929920	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 1-26-12 TIME: 1130 WEATHER: Sun 75°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	48	P3	21	P2-P3	0		
BF2 (Center)	P4	46	P5	23	P4-P5	0		
BF3 (West)	P6	49	P7	26	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	25	P9	15	P8-P9	0		
MX-21 (large)	P9	15	P10	5	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	5	P11	5	P10-P11	0		
GAC - 2	P11	5	P12	5	P11-P12	0		
GAC - 3	P12	5	P13	6	P12-P13	0		
Ion Exchange	P13	6	P14	4	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	(1)	9062031.3	9041552.0	-	
Wells: GW-15	(1)	5376849	5362295	-	
Wells: GW-16	(1)	2987468.5	2972586.5	-	
NPDES Discharge	8	59006810	58960120	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH] @ 1140

TEMP 20.7 (degrees, C) pH 7.23 Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify)_____

Surge TK 1150

NOTES / DAILY TASK SUMMARY

Collected monthly samples. Collected a surge tank sample - placed on hold pending effluent results

(1) System / surge tank high level shut down influent.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 1-27-12 TIME: 1030 WEATHER: Cloudy 60°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	38	P3	37	P2-P3	0		
BF2 (Center)	P4	37	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	39	P9	39	P8-P9	0		
MX-21 (large)	P9	39	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	21	P10-P11	0		
GAC - 2	P11	21	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	19	P12-P13	0		
Ion Exchange	P13	19	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9065312.0	9062031.3	-	
Wells: GW-15	7	5379375	5376849	-	
Wells: GW-16	6.8	2989822.5	2987468.5	-	
NPDES Discharge	34	59016285	59006810	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Changed BF-1, 2, 3 and mx-7 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 1-30-12 TIME: 0750 / 0915 WEATHER: Sun 50°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	50 / 44	P3	25 / 44	P2-P3	0		
BF2 (Center)	P4	49 / 43	P5	26 / 44	P4-P5	0		
BF3 (West)	P6	52 / 45	P7	27 / 45	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	28 / 47	P9	20 / 34	P8-P9	0		
MX-21 (large)	P9	20 / 34	P10	8 / 18	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	8 / 18	P11	8 / 16	P10-P11	0		
GAC - 2	P11	8 / 16	P12	8 / 16	P11-P12	0		
GAC - 3	P12	8 / 16	P13	8 / 16	P12-P13	0		
Ion Exchange	P13	8 / 16	P14	5 / 6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.7	9094878.5	9065312.0	-	
Wells: GW-15	7	5399961	5379375	-	
Wells: GW-16	6.6	3011460.0	2989822.5	-	
NPDES Discharge	6 / 25	59083640	50016285	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0800 to 0900 to change bag filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: T 1-31-12 TIME: 1040/1105 WEATHER: _____

OPERATOR NAME: G.Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	49/ 45	P3	42/31	P2-P3	0		
BF2 (Center)	P4	47/ 43	P5	42/32	P4-P5	0		
BF3 (West)	P6	49/ 45	P7	45/ 34	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	45/35	P9	23/35	P8-P9	0		
MX-21 (large)	P9	23/ 35	P10	10/ 15	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	15	P11	14	P10-P11	0		
GAC - 2	P11	14	P12	15	P11-P12	0		
GAC - 3	P12	15	P13	13	P12-P13	0		
Ion Exchange	P13	13	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.9	9106762.0	9094878.5	-	
Wells: GW-15	6.	5408265	5399961	-	
Wells: GW-16	6.6	3020150.0	3011460.0	-	
NPDES Discharge	10/ 22	59110660	59083640	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Changed mx-7 filters and recorded new pressure rdgs.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 2-1-12 TIME: 0835 / 1050 WEATHER: _____

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	50 / 43	P3	24 / 41	P2-P3	0		
BF2 (Center)	P4	48 / 40	P5	25 / 40	P4-P5	0		
BF3 (West)	P6	50 / 42	P7	26 / 43	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	27 / 43	P9	28 / 43	P8-P9	0		
MX-21 (large)	P9	28 / 43	P10	10 / 20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	10 / 20	P11	9 / 18	P10-P11	0		
GAC - 2	P11	9 / 18	P12	9 / 18	P11-P12	0		
GAC - 3	P12	9 / 18	P13	9 / 17	P12-P13	0		
Ion Exchange	P13	9 / 17	P14	3 / 5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9114640.0	9106762.0	-	
Wells: GW-15	6.5	5414065	5408265	-	
Wells: GW-16	6.5	3026092.5	3020150.0	-	
NPDES Discharge	11 / 28	59129450	59110660	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0840 to 1040 to change BF-1, 2 + 3 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 2-3-12 TIME: 0815/0950 WEATHER: Sun 60°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	50/35	P3	37/34	P2-P3	0		
BF2 (Center)	P4	48/34	P5	37/34	P4-P5	0		
BF3 (West)	P6	51/36	P7	39/37	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40/36	P9	27/36	P8-P9	0		
MX-21 (large)	P9	27/36	P10	10/32	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	10/32	P11	9/28	P10-P11	0		
GAC - 2	P11	9/28	P12	9/26	P11-P12	0		
GAC - 3	P12	9/26	P13	9/25	P12-P13	0		
Ion Exchange	P13	9/25	P14	4/8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.8	9136062.5	9114640.0	-	
Wells: GW-15	7.0	5428608	5414065	-	
Wells: GW-16	6.8	3041820.0	3026092.5	-	
NPDES Discharge	10/40	59180025	59129450	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

System off from 0830 to 0935 to change out BF-1,2,3, MX-7 and MX21 Filters
Collected an Effluent sample for VOC's to check TBA content (0815)
Collected samples from After MX-21, After MX-7 and Surge Tank for TPH-G+D (0820, 0825, 0830)

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 2-6-12 TIME: 0940/1110 WEATHER: Cloudy 60°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	49 / 38	P3	14 / 38	P2-P3	0		
BF2 (Center)	P4	48 / 37	P5	15 / 38	P4-P5	0		
BF3 (West)	P6	50 / 39	P7	16 / 39	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	17 / 38	P9	12 / 30	P8-P9	0		
MX-21 (large)	P9	12 / 30	P10	8 / 26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	8 / 26	P11	8 / 23	P10-P11	0		
GAC - 2	P11	8 / 23	P12	8 / 22	P11-P12	0		
GAC - 3	P12	8 / 22	P13	7 / 21	P12-P13	0		
Ion Exchange	P13	7 / 21	P14	4 / 7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9170200.0	9136062.5	-	
Wells: GW-15	7	5451059	5428608	-	
Wells: GW-16	6.8	3066675.5	3041820.0	-	
NPDES Discharge	9 / 36	59256390	59180025	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0945 to 1100 to change BF-1,2+3 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: T 2-7-12 TIME: 1130 WEATHER: 65° Cloudy

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	31	P2-P3	0		
BF2 (Center)	P4	41	P5	32	P4-P5	0		
BF3 (West)	P6	43	P7	34	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	33	P9	20	P8-P9	0		
MX-21 (large)	P9	20	P10	16	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	16	P11	14	P10-P11	0		
GAC - 2	P11	14	P12	14	P11-P12	0		
GAC - 3	P12	14	P13	14	P12-P13	0		
Ion Exchange	P13	14	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9183575.5	9170200.0	-	
Wells: GW-15	6	5459575	5451059	-	
Wells: GW-16	6.6	3076213.5	3066675.5	-	
NPDES Discharge	23	59287950	59256390	-	

B

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 03-08-12 TIME: 1018 WEATHER: SUNNY

OPERATOR NAME: Milton L Gradillas REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	33	P3	31	P2-P3	0		READING AFTER FILTER CHANGE
BF2 (Center)	P4	31	P5	32	P4-P5	0		
BF3 (West)	P6	34	P7	35	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	33	P9	32	P8-P9	0		
MX-21 (large)	P9	32	P10	29	P9-P10	0		
GAC FILTERS							If > 10 psig: notify.	
GAC - 1	P10	29	P11	26	P10-P11	0		
GAC - 2	P11	26	P12	25	P11-P12	0		
GAC - 3	P12	25	P13	23	P12-P13	0		
Ion Exchange	P13	23	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.1	9193429.8	9183575.5	-	
Wells: GW-15	6.1	5466045	5459575	-	
Wells: GW-16	6.6	30833535	30762135	-	
NPDES Discharge	40 GPM	59308630	59287950	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

SHUTDOWN SYSTEM AT 1025 FOR FILTER CHANGE. SYSTEM TURNED ON AT 1315.

DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 02-09-12 TIME: 1410 WEATHER: SUNNY

OPERATOR NAME: Milton L. Gradillas REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	34	P3	24	P2-P3	0		
BF2 (Center)	P4	32	P5	26	P4-P5	0		
BF3 (West)	P6	35	P7	29	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	26	P9	26	P8-P9	0		
MX-21 (large)	P9	26	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	21	P10-P11	0		
GAC - 2	P11	21	P12	19	P11-P12	0		
GAC - 3	P12	19	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.3	9206310.0	9193429.8	-	
Wells: GW-15	Ø	5474309	5466045	-	METER NOT WORKING Will Verify (1500)
Wells: GW-16	6.8	30927000.0	30833535	-	
NPDES Discharge	34	59338750	59308630	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 2-10-12 TIME: 1000 WEATHER: Sun 69°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	18	P2-P3	0		
BF2 (Center)	P4	40	P5	19	P4-P5	0		
BF3 (West)	P6	42	P7	21	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	20	P9	20	P8-P9	0		
MX-21 (large)	P9	20	P10	15	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	15	P11	14	P10-P11	0		
GAC - 2	P11	14	P12	14	P11-P12	0		
GAC - 3	P12	14	P13	12	P12-P13	0		
Ion Exchange	P13	12	P14	3	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	92172200	9206310.0	-	
Wells: GW-15	6.5	5475342	5474309	-	
Wells: GW-16	6.6	3100698.5	3092700.0	-	
NPDES Discharge	15	59356755	59338750	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Sampled effluent for VOC's @0955

GW-15 back on line @ 0730

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 2-13-12 TIME: 1115 /1215 WEATHER: Cloudy 55°

OPERATOR NAME: G. Andrasko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	46 / 36	P3	21 / 35	P2-P3	0		
BF2 (Center)	P4	44 / 35	P5	22 / 34	P4-P5	0		
BF3 (West)	P6	47 / 36	P7	23 / 36	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	24 / 36	P9	10 / 36	P8-P9	0		
MX-21 (large)	P9	10 / 36	P10	5 / 32	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	32	P11	28	P10-P11	0		
GAC - 2	P11	28	P12	27	P11-P12	0		
GAC - 3	P12	27	P13	26	P12-P13	0		
Ion Exchange	P13	26	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9235187.0	9217220.0	-	
Wells: GW-15	2.	5488306.9	5475342	-	
Wells: GW-16	6.7	3113796.5	3100698.5	-	
NPDES Discharge	38	59397450	59356755	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

Changed BF-1,2,3 + MX-7 Filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 2-15-12 TIME: 0900 / 1040 WEATHER: Cloudy 55°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	49 / 37	P3	14 / 37	P2-P3	0		
BF2 (Center)	P4	47 / 37	P5	14 / 36	P4-P5	0		
BF3 (West)	P6	50 / 39	P7	16 / 38	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	16 / 38	P9	14 / 33	P8-P9	0		
MX-21 (large)	P9	14 / 33	P10	10 / 28	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	28	P11	25	P10-P11	0		
GAC - 2	P11	25	P12	24	P11-P12	0		
GAC - 3	P12	24	P13	23	P12-P13	0		
Ion Exchange	P13	23	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.9	9257891.0	9235187.0	-	
Wells: GW-15	6	6503212	5488306	-	
Wells: GW-16	6.8	3130255.5	3113796.5	-	
NPDES Discharge	35	59448550	59397450	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0905 to 1035 to change BF-1, 2 + 3 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 2-16-12 TIME: 1440 WEATHER: Sun 70°

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	43	P3	33	P2-P3	0		
BF2 (Center)	P4	41	P5	34	P4-P5	0		
BF3 (West)	P6	43	P7	37	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	36	P9	16	P8-P9	0		
MX-21 (large)	P9	16	P10	11	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	11	P11	11	P10-P11	0		
GAC - 2	P11	11	P12	11	P11-P12	0		
GAC - 3	P12	11	P13	11	P12-P13	0		
Ion Exchange	P13	11	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9273087.0	9257891.0	-	
Wells: GW-15	6	5512900	5503212	-	
Wells: GW-16	6.5	3141325.0	3130255.5	-	
NPDES Discharge	21	59484215	59448550	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 2-20-12 TIME: 1400 WEATHER: SUNNY

OPERATOR NAME: Milton L. Gradillas REV'D BY:

PRESSURE READINGS

EQUIPMENT		Inlet Pressure (psig)		Outlet Pressure (psig)		Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig: change filter	
BF1 (East)	P2	37	P3	36	P2-P3	0		READING AFTER FILTER CHANGE
BF2 (Center)	P4	36	P5	36	P4-P5	0		↓
BF3 (West)	P6	38	P7	39	P6-P7	0		
MYCELX							If > 15 psig: change filter	
MX-7 (small)	P8	37	P9	30	P8-P9	0		
MX-21 (large)	P9	20	P10	26	P9-P10	0		
GAC FILTERS							If > 10 psig: notify.	
GAC - 1	P10	26	P11	23	P10-P11	0		
GAC - 2	P11	23	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	6.5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9310596.8	9281391.0	-	
Wells: GW-15	8.0	5537674	5518320	-	
Wells: GW-16	8.8	3162035.3	3147352.5	-	
NPDES Discharge	35	59561415	59501660	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

System off at 1110 to change bag filters. System re-started at 1406.
BF1, BF2 and BF filters changed out.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Th 2-23-12 **TIME:** 1320 **WEATHER:** Sun 75°

OPERATOR NAME: C. Androske **REV'D BY:**

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	42	P3	22	P2-P3	0		
BF2 (Center)	P4	41	P5	25	P4-P5	0		
BF3 (West)	P6	43	P7	28	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	24	P9	14	P8-P9	0		
MX-21 (large)	P9	14	P10	11	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	11	P11	10	P10-P11	0		
GAC - 2	P11	10	P12	10	P11-P12	0		
GAC - 3	P12	10	P13	10	P12-P13	0		
Ion Exchange	P13	10	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9349554.0	9323080.0	-	
Wells: GW-15	6	5562165	5545775	-	
Wells: GW-16	4.5	3181170.0	3168255.5	-	
NPDES Discharge	19	59640670	59588510	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

65 TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected a Effluent sample @ 1520 for 24Hr TAT.

DFSP Norwalk

GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 2-24-12 TIME: _____ WEATHER: 57° Sunny

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	47	P3	25	P2-P3	0		
BF2 (Center)	P4	46	P5	25	P4-P5	0		
BF3 (West)	P6	48	P7	27	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	27	P9	16	P8-P9	0		
MX-21 (large)	P9	16	P10	11	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	11	P11	9	P10-P11	0		
GAC - 2	P11	9	P12	9	P11-P12	0		
GAC - 3	P12	9	P13	9	P12-P13	0		
Ion Exchange	P13	9	P14	4	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9361234.0	9349554.0	-	
Wells: GW-15	5.5	5569370	5562165	-	
Wells: GW-16	4.3	3186940.0	3181170.0	-	
NPDES Discharge	14	59662450	59640670	-	

NPDES Sample Collection (circle one): MONTHLY, (QUARTERLY), ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP 21.4 (degrees, C) pH 6.97 Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected Effluent sample @ 1000

Collected Surge Tank sample @ 1010

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 2-27-12 TIME: 1205 / 1430 WEATHER: 56° Cloudy (RAIN - 1400)

OPERATOR NAME: G. Androsko / M. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	45 / 33	P3	20 / 31	P2-P3	0		Change Filter
BF2 (Center)	P4	43 / 32	P5	21 / 32	P4-P5	0		Change Filter
BF3 (West)	P6	45 / 34	P7	24 / 35	P6-P7	0		Change Filter
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	24 / 33	P9	10 / 35	P8-P9	0		Change Filter
MX-21 (large)	P9	10 / 35	P10	7 / 29	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	29	P11	26	P10-P11	0		
GAC - 2	P11	26	P12	24	P11-P12	0		
GAC - 3	P12	24	P13	24	P12-P13	0		
Ion Exchange	P13	24	P14	8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.5	9374781.1	9361340	-	
Wells: GW-15	8.0	5579275	5569370	-	
Wells: GW-16	4.4	319359	3186940	-	
NPDES Discharge	4 / 36	59690655	59662480	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off @ 1210 to change filters. System RESTARTED AT 1424.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 02-29-12 WED TIME: 0940 WEATHER: SUNNY
OPERATOR NAME: Milton L Gradillas REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	50/36	P3	7/34	P2-P3	0		Change Filters
BF2 (Center)	P4	48/34	P5	8/35	P4-P5	0		Change Filters
BF3 (West)	P6	51/36	P7	10/37	P6-P7	0		Change Filters
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	9/35	P9	11/34	P8-P9	0		
MX-21 (large)	P9	11/34	P10	6/29	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	6/29	P11	6/26	P10-P11	0		
GAC - 2	P11	6/26	P12	6/24	P11-P12	0		
GAC - 3	P12	6/24	P13	6.5/23.5	P12-P13	0		
Ion Exchange	P13	6.5/23.5	P14	3.5/8	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	8.9	9391140.0	9374781.1	-	
Wells: GW-15	6.0	5590915	5579275	-	
Wells: GW-16	4.4	3202186.8	319359	-	
NPDES Discharge	5/37	59725725	59690655	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System shutdown at 1050 for filter change. System restarted at 1230.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 3-2-12 TIME: 1240 WEATHER: Sun 74°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	26	P2-P3	0		
BF2 (Center)	P4	37	P5	28	P4-P5	0		
BF3 (West)	P6	39	P7	30	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	28	P9	22	P8-P9	0		
MX-21 (large)	P9	22	P10	16	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	16	P11	15	P10-P11	0		
GAC - 2	P11	15	P12	14	P11-P12	0		
GAC - 3	P12	14	P13	14	P12-P13	0		
Ion Exchange	P13	14	P14	4	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9418188.0	9391140.0	-	
Wells: GW-15	5.8	5607606	5590915	-	
6 Wells: GW-16	4.5	3214968.5	3202186.8	-	
8 NPDES Discharge	27	59779400	59725725	-	

Sample Times
1105
1050
1055
1100
1109 Surge Tank

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected an effluent sample for VOC's, Collected a Surge Tank, GW-15, GW-16, + GW-2/13 sample for VOC's + Hardness
Water Quality parameters - Surge tank pH 7.42 DO 0.11 mg/L Temp 25.0°C
GW-15 7.54 1.55 23.2
GW-16 7.62 -0.11 23.3

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 3-5-12 TIME: 0835 / 1010 WEATHER: _____

OPERATOR NAME: G. Androsko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	48 / 39	P3	23 / 38	P2-P3	0		
BF2 (Center)	P4	47 / 39	P5	23 / 38	P4-P5	0		
BF3 (West)	P6	49 / 42	P7	25 / 41	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	25 / 40	P9	15 / 27	P8-P9	0		
MX-21 (large)	P9	15 / 27	P10	10 / 21	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	21	P11	19	P10-P11	0		
GAC - 2	P11	19	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	5	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9451827.0	9418188.0	-	
Wells: GW-15	6.5	5628448	5607606	-	
98 Wells: GW-16	4.5	3231306.5	3214968.5	-	
6 NPDES Discharge	11 / 30	5984595	59779400	-	
8 48					

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0840 to 1000 to change bag filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: T 3-6-12 TIME: 0810 WEATHER: Cloudy 57°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	40	P3	38	P2-P3	0		
BF2 (Center)	P4	38	P5	38	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	27	P8-P9	0		
MX-21 (large)	P9	27	P10	20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	20	P11	19	P10-P11	0		
GAC - 2	P11	19	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	17	P12-P13	0		
Ion Exchange	P13	17	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.2	9463842.5	9451827.0	-	
Wells: GW-15	5.5	5635908	5628448	-	
~~85~~ 8 Wells: GW-16	4.5	3237193.5	3231306.5	-	
NPDES Discharge	29	59870190	59845195	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg. C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected a effluent sample for VOC's 1000
Collected a Surge Tank and After GAC-1 sample for VOC's

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 03:07:2012 TIME: 1052 WEATHER: SUNNY 65°

OPERATOR NAME: Milton L. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	35	P2-P3	0		
BF2 (Center)	P4	36	P5	35	P4-P5	0		
BF3 (West)	P6	39	P7	37	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	37	P9	25	P8-P9	0		
MX-21 (large)	P9	25	P10	19	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	19	P11	17	P10-P11	0		
GAC - 2	P11	17	P12	16	P11-P12	0		
GAC - 3	P12	16	P13	15	P12-P13	0		
Ion Exchange	P13	15	P14	4	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	9.0	9478589.9	9463842.5	-	
Wells: GW-15	6.0	5644293	5635908	-	
Wells: GW-16	4.6	3243724.1	3237193.5	-	
NPDES Discharge	28	5989874	5987019.0	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 3-9-12 TIME: 1015/1440 WEATHER: Sunny 75°

OPERATOR NAME: G.Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	49/32	P3	17/29	P2-P3	0		
BF2 (Center)	P4	48/30	P5	18/30	P4-P5	0		
BF3 (West)	P6	49/33	P7	20/32	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	19/32	P9	9/32	P8-P9	0		
MX-21 (large)	P9	9/32	P10	4/26	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	26	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	22	P11-P12	0		
GAC - 3	P12	22	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	9	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	7.0	9499615.0	9478589.9	-	
Wells: GW-15	6.0	5657779	5644293	-	
Wells: GW-16	4.5	3254549.5	3243291	-	
NPDES Discharge	38	59941475	59898741	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 1020 to 1220 to change BF-1, 2, 3, and MX-7 filters
Note: The filters were gray in color - not the usual brown.

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 3-12-12 TIME: 1115 WEATHER: Part. Cloudy 60°

OPERATOR NAME: G. Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	39	P3	39	P2-P3	0		
BF2 (Center)	P4	39	P5	37	P4-P5	0		
BF3 (West)	P6	40	P7	40	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	40	P9	32	P8-P9	0		
MX-21 (large)	P9	32	P10	24	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	24	P11	21	P10-P11	0		
GAC - 2	P11	21	P12	20	P11-P12	0		
GAC - 3	P12	20	P13	20	P12-P13	0		
Ion Exchange	P13	20	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	6.6	9520525.0	9499615.0	-	
Wells: GW-15	6.5	5676469	5657779	-	
Wells: GW-16	4.5	3269422.0	3254549.5	-	
NPDES Discharge	32	59992040	59941475	-	

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NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0935 to 1105 to change BF-1, 2 + 3 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 3-14-12 TIME: 0800 WEATHER: Cloudy 55°

OPERATOR NAME: G.Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	41	P3	33	P2-P3	0		
BF2 (Center)	P4	39	P5	33	P4-P5	0		
BF3 (West)	P6	42	P7	35	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	35	P9	26	P8-P9	0		
MX-21 (large)	P9	26	P10	20	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	20	P11	18	P10-P11	0		
GAC - 2	P11	18	P12	16	P11-P12	0		
GAC - 3	P12	16	P13	16	P12-P13	0		
Ion Exchange	P13	16	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0(1)	9528444.1	9520525.0	-	
Wells: GW-15	5.5	5691148	5676469	-	
Wells: GW-16	4.5	3281227.5	3269422.0	-	
NPDES Discharge	27	60026700	59992040	-	

9
9
46

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

(1) Inlet from wells damaged by asbestos abatement work, repairs pending. Wells shut off 3/13/12 @ 0930

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: F 3-16-12 TIME: 0920 WEATHER: _____

OPERATOR NAME: _____ REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	37	P3	31	P2-P3	0		
BF2 (Center)	P4	37	P5	32	P4-P5	0		
BF3 (West)	P6	40	P7	34	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	34	P9	27	P8-P9	0		
MX-21 (large)	P9	27	P10	22	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	22	P11	19	P10-P11	0		
GAC - 2	P11	19	P12	18	P11-P12	0		
GAC - 3	P12	18	P13	18	P12-P13	0		
Ion Exchange	P13	18	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0*1		9528444.1	-	
73 Wells: GW-15	5.5	5706375	5691148	-	
4 Wells: GW-16	4.5	3293985.5	3281227.5	-	
95 NPDES Discharge	30	60054902	60026700	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

Collected effluent sample @ 0930
System off @ 1000 - excavating fire line in berm 80004 - inlet line is in the way
*1. Inlet let from GW2/13 not completed - wells off - Backon @ 1024 - repair failed off @ 1115
1330 GW-15 + 16 back on line

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: M 3-19-12 TIME: 1100 WEATHER: 60° Sunny

OPERATOR NAME: G. Andrasko REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	36	P3	36	P2-P3	0		
BF2 (Center)	P4	35	P5	34	P4-P5	0		
BF3 (West)	P6	37	P7	36	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	37	P9	37	P8-P9	0		
MX-21 (large)	P9	37	P10	32	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	32	P11	27	P10-P11	0		
GAC - 2	P11	27	P12	25	P11-P12	0		
GAC - 3	P12	25	P13	24	P12-P13	0		
Ion Exchange	P13	24	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0	9528444.1		-	
Wells: GW-15	6.5	5717715	5706375	-	
Wells: GW-16	4.4	3302776.0	3293985.5	-	
NPDES Discharge	38	60072775	60054902	-	

65
+14
5

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify) _____

NOTES / DAILY TASK SUMMARY

System off from 0950 to 1055 to change BF-1, 2, 3 and MX-7 filters

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: 03.21.2012 TIME: 1120 WEATHER: SUNNY

OPERATOR NAME: Milton L. Gradillas REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	33	P3	30	P2-P3	0		
BF2 (Center)	P4	31	P5	31	P4-P5	0		
BF3 (West)	P6	32	P7	33	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	32	P9	33	P8-P9	0		
MX-21 (large)	P9	33	P10	28	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	28	P11	24	P10-P11	0		
GAC - 2	P11	24	P12	23	P11-P12	0		
GAC - 3	P12	23	P13	21	P12-P13	0		
Ion Exchange	P13	21	P14	7	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0	9528444.1	9528444.1	-	
Wells: GW-15	6.0	5731274	5717715	-	
Wells: GW-16	4.3	3312878.5	3302776.0	-	
NPDES Discharge	38	60097580	60072775	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify) _____

NOTES / DAILY TASK SUMMARY

GW-2 + GW-13 NOT OPERABLE. UNDER REPAIRS

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: Fri 3-23-12 TIME: 1100 WEATHER: Cloudy 55°

OPERATOR NAME: G. Andrioska REV'D BY: _____

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	35	P3	32	P2-P3	0		
BF2 (Center)	P4	34	P5	32	P4-P5	0		
BF3 (West)	P6	36	P7	34	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	34	P9	34	P8-P9	0		
MX-21 (large)	P9	34	P10	30	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	30	P11	26	P10-P11	0		
GAC - 2	P11	26	P12	24	P11-P12	0		
GAC - 3	P12	24	P13	23	P12-P13	0		
Ion Exchange	P13	23	P14	6	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0	-	9528444.1	-	
Wells: GW-15	6	5746654.	5731274	-	
Wells: GW-16	4.3	3324905.0	3312878.5	-	
NPDES Discharge	38	60122380	60097580	-	

NPDES Sample Collection (circle one): MONTHLY, QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP_____ (degrees, C) pH_____ Data collection instrument used (check one): ☐ Horiba U-10 or ☐ Other (please specify)_____

NOTES / DAILY TASK SUMMARY

GW-2/13 under repairs
Collected a Effluent sample @ 1055 for VOC's
System off @ 1330 to excavate GW-2/13 line for repairs - Broke pull box - wires damaged
System will be off until electrician can check lines

DFSP Norwalk
GWTS Environmental Compliance / Operation Maintenance Worksheets

PARSONS DAILY INSPECTION MAINTENANCE LOGSHEET

DATE: W 3-28-12 TIME: 1458 WEATHER: Sun 70°

OPERATOR NAME: G.Androsko REV'D BY:

PRESSURE READINGS

EQUIPMENT	Inlet Pressure (psig)		Outlet Pressure (psig)			Delta P (psig)	Filter Change Guide	COMMENTS
BAG FILTERS (BF)							If > 25 psig; change filter	
BF1 (East)	P2	21	P3	16	P2-P3	0		
BF2 (Center)	P4	20	P5	16	P4-P5	0		
BF3 (West)	P6	23	P7	22	P6-P7	0		
MYCELX							If > 15 psig; change filter	
MX-7 (small)	P8	21	P9	21	P8-P9	0		
MX-21 (large)	P9	21	P10	18	P9-P10	0		
GAC FILTERS							If > 10 psig; notify.	
GAC - 1	P10	18	P11	14	P10-P11	0		
GAC - 2	P11	14	P12	14	P11-P12	0		
GAC - 3	P12	14	P13	13	P12-P13	0		
Ion Exchange	P13	13	P14	3	P13-P14	0		

FLOW METERS	Instantaneous Flow (GPM)	Totalizer Reading (GAL)	Last Totalizer Reading (GAL)	Flow Volume (GAL)	
Wells: GW-2 + GW-13	0		9528444.1	-	
Wells: GW-15	6.5	5747425	5746554	-	
Wells: GW-16	4.4	3325598.5	3324905.0	-	
NPDES Discharge	34	60125555	60122380	-	

23
7

NPDES Sample Collection (circle one) (MONTHLY), QUARTERLY, ANNUAL, OTHER (specify)_____ [If collecting NPDES samples today, record effluent temperature (deg, C) and pH]

TEMP 18.1 (degrees, C) pH 8.14 Data collection instrument used (check one): ☐Horiba U-10 or ☐Other (please specify)_____

NOTES / DAILY TASK SUMMARY

System on at 1344 - GW-15 + 16 only. GW-2/13 waiting for electrical repairs
Collected effluent sample @ 1445
System off @ 1500