

RECEIVED

By Alameda County Environmental Health 9:55 am, Oct 07, 2015

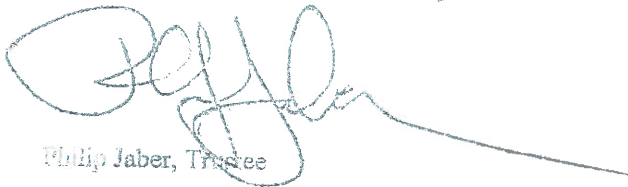
Mr. Mark Dettelman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Former Olympic Service Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. R0000373, GeoTracker No. T0600102256

Dear Mr. Dettelman:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,
George and Frida Jaber 1989 Family Trust



Philip Jaber, Trustee

FILE COPY



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

TRANSMITTAL

Date August 7, 2015
Project Former Olympic Station

To:

Oro Loma Sanitary District (OLSD)

Industrial Waste Inspector

2600 Grant Avenue, San Lorenzo, CA 94580

Attn: Rodney Smith

Re: Wastewater Discharge Monthly Report (Permit #SDP-2014147)

Item	Description
1	Analytical Report (Effluent sample collected on 7/1/15)
2	Operational Uptime and Flow Summary Table (Table 3)
3	Operational Performance and Mass Removal Summary Table (Table 9: GW Extraction Component)

Dear Mr. Smith:

Please find attached for your review the analytical results for the effluent water sample collected on July 1, 2015, the pH readings (Table 3), and groundwater discharge flow rates (Table 9) observed from the dual-phase extraction and groundwater remediation system at the Former Olympic Station Facility, located at 1436 Grant Avenue, San Lorenzo, California. Between July 1 and August 3, 2015, all extracted groundwater was treated using carbon vessels, and discharged into the sanitary sewer. The approximate monthly discharge and extraction rates are as follows:

- July 1 – August 3, 2015: 97,240 gallons (3.37 gpm)

The system operated in compliance with permit conditions and all effluent sample results were below laboratory reporting limits, and within the permit limitations.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate,

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

If you have any questions, or need more information, please contact me at (530) 313-9974 or dbarr@stratusinc.net.

Sincerely,



Deborah L. Barr, P.E.





Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/02/15

Job: Olympic Station

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: Oly A EFF					
Lab ID: STR15070242-01A	TPH-P (GRO)	ND	20 mg/m ³	07/02/15 10:23	07/02/15
Date Sampled 07/01/15 06:00	Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
	Benzene	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
	Toluene	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
	Ethylbenzene	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
	m,p-Xylene	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
	o-Xylene	ND	0.20 mg/m ³	07/02/15 10:23	07/02/15
Client ID: Oly W EFF					
Lab ID: STR15070242-02A	TPH-P (GRO)	ND	50 µg/L	07/02/15	07/02/15
Date Sampled 07/01/15 05:40	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/02/15	07/02/15
	Benzene	ND	0.50 µg/L	07/02/15	07/02/15
	Toluene	ND	0.50 µg/L	07/02/15	07/02/15
	Ethylbenzene	ND	0.50 µg/L	07/02/15	07/02/15
	m,p-Xylene	ND	0.50 µg/L	07/02/15	07/02/15
	o-Xylene	ND	0.50 µg/L	07/02/15	07/02/15

Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.66 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



PS
7/2/15

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR15070242

Job: Olympic Station

Alpha's Sample ID

Client's Sample ID

Matrix

pH

15070242-02A

Oly W EFF

Aqueous

2

7/2/15

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Jul-15

QC Summary Report

Work Order:
15070242

Method Blank

File ID: 15070207.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0702B

Analysis Date: 07/02/2015 12:23

Sample ID: MBLK MS09A0702B

Units : mg/m³

Run ID: MSD_09_150702A

Prep Date: 07/02/2015 12:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.81		2		91	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.9		2		95	70	130			

Laboratory Control Spike

File ID: 15070204.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0702B

Analysis Date: 07/02/2015 11:02

Sample ID: GLCS MS09A0702B

Units : mg/m³

Run ID: MSD_09_150702A

Prep Date: 07/02/2015 11:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	395	10	400		99	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10		97	70	130			
Surr: Toluene-d8	9.79		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
09-Jul-15

QC Summary Report

Work Order:
15070242

Method Blank

Type MBLK Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\150702\15070206.D

Batch ID: MS10W0702B

Analysis Date: 07/02/2015 13:09

Sample ID: MBLK MS10W0702B

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 13:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.56		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.64		10		86	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\150702\15070204.D

Batch ID: MS10W0702B

Analysis Date: 07/02/2015 12:21

Sample ID: GLCS MS10W0702B

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 12:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	448	50	400		112	70	130			
Surr: 1,2-Dichloroethane-d4	9.88		10		99	70	130			
Surr: Toluene-d8	9.6		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.85		10		89	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Jul-15

QC Summary Report

Work Order:
15070242

Method Blank

File ID: 15070207.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS09A0702A

Analysis Date: 07/02/2015 12:23

Sample ID: MBLK MS09A0702A

Units: mg/m³

Run ID: MSD_09_150702A

Prep Date: 07/02/2015 12:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.81		2		91	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.9		2		95	70	130			

Laboratory Control Spike

File ID: 15070205.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS09A0702A

Analysis Date: 07/02/2015 11:28

Sample ID: LCS MS09A0702A

Units: mg/m³

Run ID: MSD_09_150702A

Prep Date: 07/02/2015 11:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	12.4	0.1	10		124	63	137			
Benzene	9.42	0.1	10		94	70	130			
Toluene	9.36	0.1	10		94	70	130			
Ethylbenzene	8.18	0.1	10		82	70	130			
m,p-Xylene	8.14	0.1	10		81	65	139			
o-Xylene	8.22	0.1	10		82	70	130			
Surr: 1,2-Dichloroethane-d4	9.46		10		95	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		97	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Jul-15

QC Summary Report

Work Order:
15070242

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070206.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 13:09

Sample ID: MBLK MS10W0702A

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 13:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.56		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.64		10		86	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070203.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 11:57

Sample ID: LCS MS10W0702A

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 11:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.88	0.5	10		99	63	137			
Benzene	9.77	0.5	10		98	70	130			
Toluene	9.35	0.5	10		94	70	130			
Ethylbenzene	10.4	0.5	10		104	70	130			
m,p-Xylene	10.4	0.5	10		104	65	139			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.75		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.07		10		91	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070221.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 19:08

Sample ID: 15062520-01AMS

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 19:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	57.8	1.3	50	0	116	56	140			
Benzene	60	1.3	50	0	120	67	134			
Toluene	56.7	1.3	50	0	113	38	130			
Ethylbenzene	62.9	1.3	50	0	126	70	130			
m,p-Xylene	62.6	1.3	50	0	125	65	139			
o-Xylene	64.7	1.3	50	0	129	69	130			
Surr: 1,2-Dichloroethane-d4	48.8		50		98	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	47.5		50		95	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070222.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 19:32

Sample ID: 15062520-01AMSD

Units: µg/L

Run ID: MSD_10_150702A

Prep Date: 07/02/2015 19:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	47.4	1.3	50	0	95	56	140	57.79	19.7(40)	
Benzene	49.6	1.3	50	0	99	67	134	60.04	19.0(21)	
Toluene	47.4	1.3	50	0	95	38	130	56.67	17.8(20)	
Ethylbenzene	52.6	1.3	50	0	105	70	130	62.91	17.9(20)	
m,p-Xylene	52.4	1.3	50	0	105	65	139	62.59	17.7(20)	
o-Xylene	54	1.3	50	0	108	69	130	64.68	18.1(20)	
Surr: 1,2-Dichloroethane-d4	47.8		50		96	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Jul-15

QC Summary Report

Work Order:
15070242

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

RUSH! CA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR15070242
Report Due By : 5:00 PM On : 02-Jul-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 550
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	E-Mail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :
 Client's COC # : 04328 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
2 °C	02-Jul-15	02-Jul-15

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHP_A	TPHP_W	VOC_A	VOC_W				
STR15070242-01A	Oly A EFF	AR 07/01/15 06:00	1 0 0	GAS-N/C		BTEX/MTB E					Tedlar.
STR15070242-02A	Oly W EFF	AQ 07/01/15 05:40	3 0 0		GAS-C	BTEX/M_C					

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TATs. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO.	Alpha Analytical, Inc.	7/2/15 9:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Company: State
 Attn: Debbie
 Address: 3300 Cambridge Pk
 City, State, Zip: Camden NJ 08104
 Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 256 Glendale Ave. Suite 2 Sparks, NV 89431
 Northern CA: 9801 Horn Road, Suite C, Rincón Cordova, CA 95077
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamelle Hwy #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave. Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9289
 Phone: 714-386-2901
 Phone: 775-360-7043
 Phone: 702-281-4848

04328

Page # 1 of 1

Company Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:

Company: State Job #: CITYMPLE STATE Report Attention/Project Manager: SLC/B
 Address: _____ Job Name: _____ Email Address: _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____
 Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (MM:SS)	Date Sampled (MM:DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested				Remarks
							Field Filtered?	Yes	No		
0603	7/5	AIR		Oily A SYSTEM STD		1	X	X	X	X	
0600	7/5	AIR	STR15010242-01A	Oily A EFF	24	1	X	X	X	X	
0555	7/5	AQ		Oily L ^W INF STD		3	X	X	X	X	
0550		AQ		Oily L ^W GAL 1 STD		3	X	X	X	X	
0543		AQ		Oily W GAL 2 STD		3	X	X	X	X	
0540	7/15	AQ		Oily W EFF -02A	24	3	X	X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: CHILL Date: 7/15 Time: 0222
 Relinquished by: CHILL Date: _____ Time: _____
 Received by: MENUSSA T Date: 7-1-15 Time: 1222
 Relinquished by: _____ Date: _____ Time: _____
 Received by: [Signature] Date: 7/2/15 Time: 950

* Key: AQ - Aqueous OT - Other So - Soil WA - Waste ** B - Brass L - Lifer O - Orbo OT - Other P - Plastic S - Soil Jar T - Tundra V - VOA
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

**TABLE 3
OPERATIONAL UPTIME AND FLOW SUMMARY**

DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Hour Meter Reading	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	pH		PID	
			"Hg	ft ²	°F	fpm	acfm	°F	°F	ft ²	°F	fpm	acfm	Inf pH	Eff °F	Sys Inf ppmv	Eff ppmv
7/21/14 6:00	1	3,478.1	16.0	0.0491	95	2,000	98.2	1,452	1,411	0.0218	76	680	15	7.69	7.60	310	1.6
7/24/14 6:00	2	3,480.0	19.0	0.0491	95	2,000	98.2	1,460	1,410	0.0218	75	800	17	--	--	350	2.1
7/29/14 5:30	3	3,599.7	16.0	0.0491	90	2,200	108.0	1,465	1,425	0.0218	76	720	16	--	8.01	310	1.1
8/4/14 7:10	4	3,600.4	15.0	0.0491	85	2,000	98.2	1,493	1,430	0.0218	69	840	18	--	--	300	1.2
8/18/14 6:30	5	3,862.0	13.0	0.0491	90	2,350	115.4	1,475	1,426	--	--	--	--	7.87	7.89	110	2.3
9/8/14 7:30		4,247.0	12.0	0.0491	100	2,600	127.6	1,463	1,422	--	--	--	--	7.81	7.87	90	2.1
9/19/14 5:00		4,509.0	12.0	0.0491	100	2,700	132.5	1,464	1,425	--	--	--	--	--	--	150	1.7
10/2/14 6:48	6	4,823.0	12.0	0.0491	98	2,800	137.4	1,467	1,429	--	--	--	--	7.91	7.93	25	2.3
10/20/14 10:00	7	5,039.0	14.0	0.0491	90	2,500	122.7	1,460	1,389	--	--	--	--	--	--	45	2.6
11/3/14 7:00	8	5,265.0	14.0	0.0491	90	2,600	127.6	1,426	1,471	--	--	--	--	8.17	8.31	50	2.1
11/18/14 6:00	9	5,269.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 5:45	10	5,271.0	20.0	0.0491	90	2,000	98.2	1,468	1,310	0.0218	63	3096	68	8.13	8.36	16	2.4
12/16/14 5:30		5,557.0	16.0	0.0491	80	2,500	122.7	1,463	1,420	0.0218	55	2910	63	--	--	50	1.2
1/5/15 7:15	8	5,873.0	19.0	0.0491	72	1,500	73.6	1,534	1,400	0.0218	50	1534	33	8.19	8.41	10	1.8
1/19/15 6:00	8	5,888.0	18.0	0.0491	80	1,800	88.4	1,460	1,365	0.0218	50	1484	32	--	--	10	1.3
2/2/15 5:55	8	5,926.0	17.0	0.0491	80	1,750	85.9	1,467	1,413	0.0218	60	1987	43	8.05	8.13	5	1.3
2/16/15 6:00	8	5,930.0	19.0	0.0491	75	1,500	73.6	1,474	1,350	0.0218	63	1348	29	--	--	6	0.8
3/10/15 5:05	8	5,941.0	20.0	0.0491	78	1,500	73.6	1,463	1,350	0.0218	67	1771	39	8.13	8.21	10	0.9
3/23/15 7:00	11	6,015.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 3
OPERATIONAL UPTIME AND FLOW SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California**

Date & Time	Notes	Hour Meter Reading	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	pH		PID	
			"Hg	ft ²	°F	fpm	acfm	°F	°F	ft ²	°F	fpm	acfm	Inf pH	Eff °F	Sys Inf ppmv	Eff ppmv
5/5/15 5:00	12	6,018.0	14.5	0.0491	80	1,600	78.5	1494	1400	0.0218	55	2319	51	7.49	7.96	25	2.5
5/20/15 5:45	13	6,059.0	15.0	0.0491	80	1,450	71.2	1450	--	0.0218	65	685	15	--	--	40	1.3
5/21/15 5:10	14	6,083.0	15.0	0.0491	90	1,500	73.6	1450	--	0.0218	--	--	--	--	--	--	--
6/2/15 4:45	15	6,233.0	15.0	0.0491	90	1,500	73.6	1450	1380	0.0218	--	--	--	8.01	7.81	6	0.3
6/22/15 4:00		6,712.0	14.0	0.0491	85	1,500	73.6	1450	1310	0.0218	--	--	--	--	--	10	0.2
7/1/15 5:30	16	6,929.0	14.0	0.0491	95	1,600	78.5	1456	--	0.0218	--	--	--	--	--	5	0.4
7/14/15 5:15	13	6,930.0	15.0	0.0491	80	1,450	71.2	1450	1376	0.0218	--	--	--	--	--	75	1.2
8/3/15 6:23		7,410.0	12.0	0.0491	96	1,600	78.5	1450	1125	0.0218	--	--	--	7.74	7.50	5	0.8
Average			15.5		87	1,940	95.2	1,464	1,384		63	1552	34	7.9	8.0	83.9	1.5

Legend / Key:

Vac = Vacuum
 "Hg = inches mercury
 ft² = square feet
 Temp = temperature
 °F = Fahrenheit
 Inf = Influent
 -- = not applicable/ not measured

fpm = feet per minute
 acfm = actual cubic feet per minute
 ppmv = parts per million by volume
 PID = Photoionization Detector
 Sys Inf = System Influent (includes dilution air)
 Eff = Effluent

Sample Calculation:

air flow = area of pipe (0.0491 ft²) × air velocity (fpm) = flowrate (acfm)

Notes:

Influent pipe diameter = 3.0 inches

- 1 System briefly started to conduct an initial sampling event extracting from wells EX-2 through EX-7. Stingers placed at 13-feet (EX-2), 10-feet (EX-3, EX-4, and EX-6), 13-feet (EX-5) and 8-feet bgs (EX-7). System down upon departure waiting results.
- 2 System down upon arrival, system re-started for 1-week operation per groundwater discharge permit. System modified to extract from extraction wells EX-2 through EX-6.
- 3 Samples obtained per discharge permit, system shutdown upon departure pending approval of analytical results to begin discharging treated groundwater into on-site sewer cleanout.
- 4 System down upon arrival; groundwater discharge permit approved. System re-started upon departure for continuous operation extracting from wells EX-2 through EX-7 with stinger placed at 6-feet bgs (EX-7).
- 5 System down upon arrival, stinger depths modified, EX-2 through EX-4 and EX-6 placed at 10-feet, EX-5 at 13-feet, and EX-7 at 5-feet bgs.
- 6 System down upon arrival, system modified to extract from wells EX-1 through EX-7, system re-started upon departure.

**TABLE 3
OPERATIONAL UPTIME AND FLOW SUMMARY**

DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Hour Meter Reading	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	pH		PID	
			"Hg	ft ²	°F	fpm	acfm	°F	°F	ft ²	°F	fpm	acfm	pH	°F	Sys Inf	Eff
7 System down upon arrival, replaced switch on combustion blower, system re-started upon departure.																	
8 System down upon arrival, system re-started upon departure.																	
9 System down upon arrival, due to scheduled groundwater sampling event system remained down upon departure.																	
10 System down upon arrival, system modified to extract from wells EX-1, EX-5 and EX-6, system re-started upon departure.																	
11 System down upon arrival, system remained down upon departure to evaluate pulse operation and second quarter groundwater sampling.																	
12 System down upon arrival, system re-started to obtain air and water samples. System modified to extract from wells EX-3, EX-6, MW-5A, and MW-6A. Sewer system observed to be backed up, therefore, maintenance to be completed prior to continuous system operation. System manually shutdown upon departure.																	
13 System down upon arrival, system re-started for continuous operation.																	
14 System modified to extract from wells EX-1, EX-6, MW-5A and MW-6A.																	
15 System modified to extract from wells EX-1, MW-5A and MW-6A.																	
16 System manually shutdown temporarily for upcoming sampling event.																	

**TABLE 9
GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY
DPE REMEDIATION EVENT**

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Hour Meter Reading ¹	Sewer Discharge Data				Analytical Results			Mass Removed			Cumulative Mass Removed		
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) ^a	Influent			This Period			Mass Removed		
								GRO (µg/L)	Benzene (µg/L)	MTBE (µg/L)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)
7/21/14	1	7:43	3,478.1	60,440	--	--	--	Start of Test								
07/29/14		5:55	3,599.7	110,120	49,680	49,680	6.81	310	3.3	37	0.13	0.0014	0.015	0.13	0.0014	0.015
08/18/14		7:15	3,862.0	196,310	86,190	135,870	5.48	170	3.4	39	0.17	0.0024	0.027	0.30	0.0038	0.043
09/08/14		7:55	4,247.0	305,370	109,060	244,930	4.72	<50	0.89	12	<0.10	0.0020	0.023	0.40	0.0057	0.066
10/02/14	2	7:25	4,823.0	458,740	153,370	398,300	4.44	<50	0.77	11	<0.06	0.0011	0.015	0.47	0.0068	0.081
11/03/14		7:58	5,265.0	618,930	160,190	558,490	6.04	<50	<0.50	13	<0.07	<0.001	0.016	0.53	0.0076	0.097
12/04/14	3	6:55	5,271.0	621,440	2,510	561,000	6.97	<50	0.98	21	<0.001	<0.00002	0.0004	0.53	0.0077	0.097
01/05/15		7:46	5,873.0	875,710	254,270	815,270	7.04	<50	5.4	29	<0.106	<0.00677	0.0530	0.64	0.0144	0.150
02/02/15		6:47	5,926.0	898,290	22,580	837,850	7.10	<50	2.4	22	<0.009	<0.00073	0.0048	0.65	0.0152	0.155
03/10/15	4	7:05	5,941.0	904,000	5,710	843,560	6.34	<50	1.5	21	<0.002	<0.00009	0.0010	0.65	0.0153	0.156
03/23/15	5	--	6,015.0	927,780	23,780	867,340	5.36	--	--	--	<0.010	<0.00030	0.0042	0.66	0.0156	0.160
05/05/15	6	7:32	6,018.0	929,200	1,420	868,760	7.89	96	5.0	19	<0.001	<0.00006	0.0002	0.66	0.0156	0.160
06/02/15	7	5:35	6,233.0	979,100	49,900	918,660	3.87	50	<0.50	7.7	<0.030	<0.00115	0.0056	0.69	0.0168	0.166
07/01/15		5:55	6,929.0	1,122,860	143,760	1,062,420	3.44	50	<0.50	6.9	<0.060	<0.00060	0.0088	0.75	0.0174	0.175
08/03/15		6:23	7,410.0	1,220,100	97,240	1,159,660	3.37	Waiting analytical data								

Legend / Key:

GRO = Gasoline Range Organics C4-C13

µg/L = micrograms per liter

lbs = pounds

MTBE = Methyl tertiary butyl ether

gpm = gallons per minute

-- = data not collected/not calculated

Analytical Methods / Laboratory:

GRO analyzed using EPA Method SW8015B/SW8260B

Benzene and MTBE analyzed using EPA Method SW8260B

Alpha Analytical, Inc. (ELAP # 2019)

^a Not representative of actual flow rate, calculation affected by system down time.

^b Mass removed this period (pounds) = Average concentration (µg/L) [between the sample dates] x Period gallons x (2.2046 x 10⁻⁹)(lb/µg) / 0.26418 (gal/L)

¹ Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

Notes:

1 DPE extracting from extraction wells EX-2 through EX-7.

2 DPE extracting from extraction wells EX-1 through EX-7.

3 DPE extracting from extraction wells EX-1, EX-5 and EX-6.

4 DPE extracting from extraction wells EX-1 and EX-5.

TABLE 9
GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

5 Mass removed is based on analytical results obtained during March 10, 2015 sampling event.

6 System was non-operational between March 23 and May 5, 2015 due to budget constraints. After maintenance, the system was re-started for continuous operation on May 20, 2015, extracting from wells EX-3, EX-6, MW-5A and MW-6A.

7 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.