Shell Oil Products US

November 12, 2010

Re: Final Quarterly $MgSO_4$ Feasibility Study Report
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Dear Mr. Jerry Wickham:

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

Sincerely,
Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

November 12, 2010
Delta Project No. SCA5251H1D
SAP No. 135785

Mr. Jerry Wickham, P.G., CHG
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6540

Re: **FINAL QUARTERLY $MgSO_4$ PILOT STUDY REPORT**
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, California

DELTA

Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC, *dba* Shell Oil Products US (Shell), Delta Consultants (Delta) has prepared this *Final Quarterly $MgSO_4$ Feasibility Study Report* for the Shell-branded service station, located at 5251 Hopyard Road in Pleasanton, California (Figure 1). A magnesium sulfate ($MgSO_4$) feasibility pilot study was initiated in April 2010 based on the work plan submitted December 11, 2009. Alameda County Environmental Health (ACEH) approved the work plan in a letter dated January 12, 2010; an additional fourth application event was approved in a letter dated September 10, 2010 using a low-flow pump to better facilitate application. An initial evaluation of the $MgSO_4$ feasibility pilot study was included in the *First Quarter 2010 Semi-Annual Monitoring Report and Quarterly Feasibility Report* dated May 13, 2010, and a 2Q10 quarterly report was submitted on August 11, 2010. The agency approval letter is included as Appendix A and the initial work plan (text, tables and figures only) is included as Appendix B.

$MgSO_4$ FEASIBILITY EVALUATION

The anaerobic sulfate reduction of hydrocarbons uses ferric (insoluble) iron as a co-metabolite. A preliminary evaluation on October 30, 2009 of groundwater at the site indicated that sulfate is utilized and depleted during the degradation of hydrocarbons, with an increase in the concentration of ferrous (soluble) iron in the center of the plume (EW-1). This data point strongly suggested sulfate was being consumed in the process of anaerobic hydrocarbon biodegradation, and that the current low sulfate concentrations may be a limiting factor for continued bioremediation of the plume. Data from the preliminary feasibility study are provided in Table 1 and the correlation between total petroleum hydrocarbons as gasoline (TPH-g) and sulfate concentrations are documented on Graph 1.

a member of: Inogen Environmental Alliance
312 Piercy Road San Jose, California 95138 USA
Phone +1 408.224.4724 / USA Toll Free 800.477.7411
Fax +1 408.225.8506 www.deltaenv.com

$MgSO_4$ FEASIBILITY PILOT STUDY

To date, the three application events proposed in the original pilot study have been completed at the site, as well as one additional fourth application using a low flow pump to better facilitate insertion of the product. The calculated volume of 55 gallons was applied via gravity feed to each application well during the initial event, but during the two subsequent events Delta was unable to apply the full amount at either application well. Groundwater flow direction is variable at the site, but over the last couple years has been typically trending from the north to the northwest; a groundwater elevation contour map from the third quarter 2010 monitoring event is included on Figure 2 and a rose diagram showing historic flow directions is included on Figure 3. $MgSO_4$ pilot study data are summarized in Table 2 and historic well data are provided in Table 3. Field data sheets and certified analytical reports with chain-of-custody documentation for field events conducted in August through October 2010 are included as Appendix C and Appendix D, respectively.

$MgSO_4$ applications

As noted in the *First Quarter 2010 Semi-Annual Monitoring Report and Quarterly Feasibility Report* dated May 13, 2010 and the *Second Quarter 2010 Quarterly $MgSO_4$ Feasibility Study Report* issued August 11, 2010, baseline groundwater samples were collected from application wells EW-1 and S-3 and observation wells S-1, S-2, and S-10 prior to the initial $MgSO_4$ application on April 8, 2010. Subsequent application events were conducted on May 27, 2010, July 15, 2010, and September 9, 2010. Monitoring samples during the third quarter 2010 were collected from the application wells on July 15, August 12, October 1, and final samples were collected on October 19, 2010; third quarter samples were collected from all wells (including observation wells) on July 15, August 18, and October 19, 2010. Table 2 documents depth to water (DTW), pH, sulfate, ferrous iron, ferric iron, methyl tert-butyl ether (MTBE), and petroleum hydrocarbon concentrations, including TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds). All analytical samples were submitted to a California state-certified laboratory with chain-of-custody documentation. The initial ferrous iron results were run out of hold (according to the method analysis should be performed within 24 hours of sample collection), and are therefore not considered representative of actual concentrations at the site. Subsequent measurements for ferrous iron were taken using a field sample kit.

During the initial event, two drums (approximately 55 gallons each) of EAS™ (electron acceptor solution) were obtained from EOS Remediation, LLC and transported to the site. One drum of EAS™ was introduced to each application well (EW-1 and S-3) following completion of baseline sampling, and samples for sulfate were collected several hours following completion of the $MgSO_4$ introduction. $MgSO_4$ volumes of 40 gallons and 45 gallons were applied to well S-3 during subsequent events, and a volume of 25 gallons was applied at well EW-1 on each subsequent event. The gravity feed method of application was only partially successful during the second and third applications; it is possible that a sulfate or magnesium precipitate formed following the first application, resulting in reduced pore space availability. Groundwater elevations should not have been interfering with distribution as it was fairly consistent during this period. A fourth application was proposed using a pump to insert the material into the wells at a low flow rate (less than 4 standard cubic feet [scfm]); the additional application was approved in an ACEH letter dated September 10, 2010. A final application was conducted on September 9, 2010 which was successful in inserting the entire calculated volume at each well.

FINDINGS

Analytical results indicate that sulfate is being utilized and depleted at the two application wells (EW-1 and S-3). Sulfate concentrations decreased dramatically in both application wells after two weeks following the ini-

tial $MgSO_4$ application, which appeared to be a typical trend. Over the course of the pilot study, ferric iron concentrations were generally decreasing at well EW-1, which is typically the well showing the highest petroleum impacts along with observation well S-1. Wells EW-1 and S-1 typically following similar trends throughout this study though well values at application well EW-1 were exaggerated. General analytical results for application well S-3, which is closer to the plume edge were inconclusive.

Results from the observation wells (S-1, S-2 and S-10) do not show indications of anaerobic sulfate reduction. None of the observation wells reported an increase in sulfate or corresponding changes in TPH-g concentrations following the $MgSO_4$ application; TPH-g concentrations in well S-1 actually increased during the pilot study. This was not unexpected, however, based on the apparent low permeability of the site and distance to the observation wells, with the closest well (S-1) being approximately 40 feet from the nearest application well and the farthest being approximately 175 feet from the closest application well.

General results of the pilot study show a definite acceleration of petroleum degradation, especially at application well EW-1 which is in the most highly impacted area of the dissolved-phase plume. A review of the attenuation trends for each application well both pre- and post-pilot study illustrates a favorable response to the $MgSO_4$ applications, especially in EW-1 where TPH-g concentrations not only took a sharp downward trend but were significantly reduced. It is not known what radius of influence would be expected due to the long distance between existing wells, but no influence was noted at the closest well approximately 40 feet distant. Therefore, while it is clear that the application of $MgSO_4$ has had a beneficial effect on localized attenuation of TPH-g, the main difficulty is regular and effective distribution of $MgSO_4$ in adequate volume and coverage to effectively accelerate contaminant removal through the tight formation. A graph showing TPH-g and corresponding sulfate concentrations at both application wells, correlated to the $MgSO_4$ application events, is included on Graph 2, and TPH-g degradation trends pre-study and post-study (to date) are shown for wells EW-1 and S-3 on Graphs 3 and 4, respectively. Graph 5 illustrates the estimated duration to cleanup goals at the current rate of degradation at well EW-1, as well as the projected trend prior to the $MgSO_4$ pilot study.

RECOMMENDATIONS

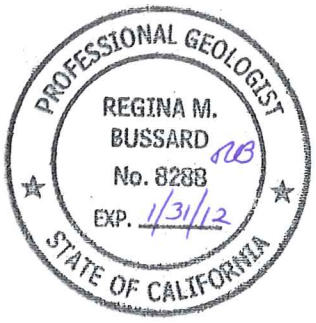
In the presence of significant petroleum concentrations (EW-1), biomass was clearly utilizing the $MgSO_4$ to convert the petroleum, resulting in significantly reduced concentrations and accelerated degradation. The application well closer to the edge of the plume (S-3) exhibited lower conversion rates due to less available source material. Influence was not noted in observation wells, indicating a limited radius of influence for passive infiltration at the site. Delta recommends monitoring the well concentrations for the next two monitoring cycles; if concentrations at EW-1 remain at generally lower levels, it is possible that a significant portion of contamination was converted during the six-month pilot study.

REMARKS

This report represents Delta's professional opinions based upon currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

This site is part of a portfolio of sites which have been transitioned to a new consultant, Conestoga-Rovers & Associates (CRA). The CRA project manager for this site is Peter Schaefer; he can be contacted directly at (510) 420-3319. If you have any questions regarding this report, please contact Suzanne McClurkin-Nelson (Delta Project Manager) at (408) 826-1875 or Denis Brown (Shell Project Manager) at (707) 865-0251.

Sincerely,
Delta Consultants



Suzanne McClurkin-Nelson
Senior Project Manager

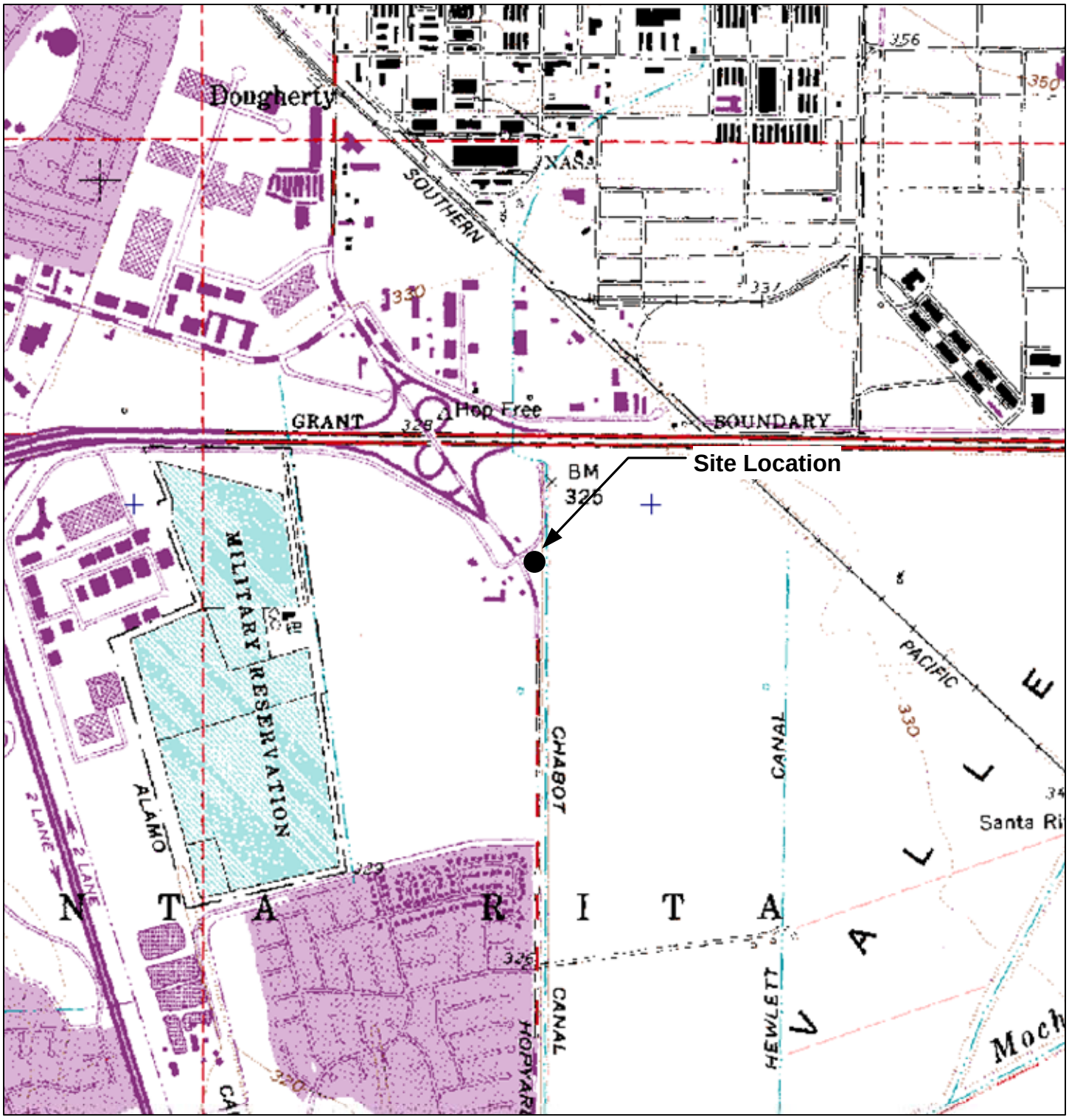
Regina Bussard , P.G.
Project Geologist

cc: Denis Brown, Shell Oil Products US
Denis Brown, Shell Oil Products US, Carson (via electronic)
Carl Cox, C and J Cox Corporation, Pleasanton
Colleen Winey, Zone 7 Water Agency, Livermore
Danielle Stefani, Livermore-Pleasanton Fire Department, Pleasanton

ATTACHMENTS:

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map – 8/12/2010 & 8/18/2010
Figure 3 – Groundwater Flow Direction Rose Diagram
Graph 1 – 2009 $MgS0_4$ Feasibility Study
Graph 2 – 2010 $MgS0_4$ Pilot Study
Graph 3 – TPH-g Trends Pre- and During $MgS0_4$ Applications (Well EW-1)
Graph 4 – TPH-g Trends Pre- and During $MgS0_4$ Applications (Well S-3)
Graph 5 – Projected Attenuation Trend for Well EW-1 with Continued $MgS0_4$ Applications
Table 1 – $MgS0_4$ Application Feasibility Groundwater Testing Data
Table 2 – 2010 $MgS0_4$ Pilot Study
Table 3 – Historic Well Concentrations
Appendix A – Regulatory Correspondence
Appendix B – December 11, 2009 Magnesium Sulfate Feasibility Study and Work Plan
Appendix C – Field Data Sheets
Appendix D – Certified Analytical Reports with Chain-of-Custody Documentation

FIGURES



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
5251 Hopyard Road
Pleasanton, California

PROJECT NO. SCA5251H1D	DRAWN BY V. F. 3/31/05
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY

DELTA CONSULTANTS

PROJECT NUMBER SCA5251H1D

APPROVED BY

CHECKED BY

DRAWN BY J.F.F. 9/7/2010

OWENS DRIVE

318.00

PLANTER

S-2
318.10

S-8
317.89

S-9
318.03

S-11
318.21

PLANTER

PLANTER

S-10
318.20

SHELL-BRANDED SERVICE STATION BUILDING

318.20

V-2

V-1

USTs (TYP.)

0.005 ft/ft

V-3

S-7
318.38

FORMER UST COMPLEX

EW-2
NG

S-1
318.82

S-5
318.31

HOPYARD ROAD

EW-1
318.89

S-3
318.58

318.40

CAR WASH

DISPENSER ISLAND (TYP.)

318.80

CANOPY

PLANTER

S-6
318.51

S-12
318.58

318.60

S-4
318.74

TRASH

PLANTER

0 20 40
SCALE IN FEET

N
W E
S

LEGEND

MW-1 ◆	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
EW-1 ■	GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
V-3 ▲	SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
318.68	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
318.40 — — —	GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=0.20 FEET
0.005 ft/ft	APPROXIMATE GROUNDWATER DIRECTION
NG	NOT GAUGED

NOTES

WELLS S-6, S-7, AND S-8 GAUGED ON 8/12/2010.

HISTORIC GROUNDWATER FLOW DIRECTIONS

DATE	FLOW DIRECTION
1/14/2005	W, WSW
8/5/2005	W, WSW
11/8/2005	W
8/16/2006	W, WNW
8/23/2006	WNW
11/13/2006	W, WSW
2/1/2007	NNW
5/23/2008	NNW
8/7/2007	WNW
11/29/2007	NNW
1/31/2008	W, WSW
2/8/2008	NNW
5/21/2008	N
8/8/2008	NNW
11/18/2008	Undetermined
1/20/2009	Undetermined
5/8/2009	N
7/8/2009	Undetermined
2/8/2010	NW
8/12/2010, 8/18/2010	N

DELTA CONSULTANTS

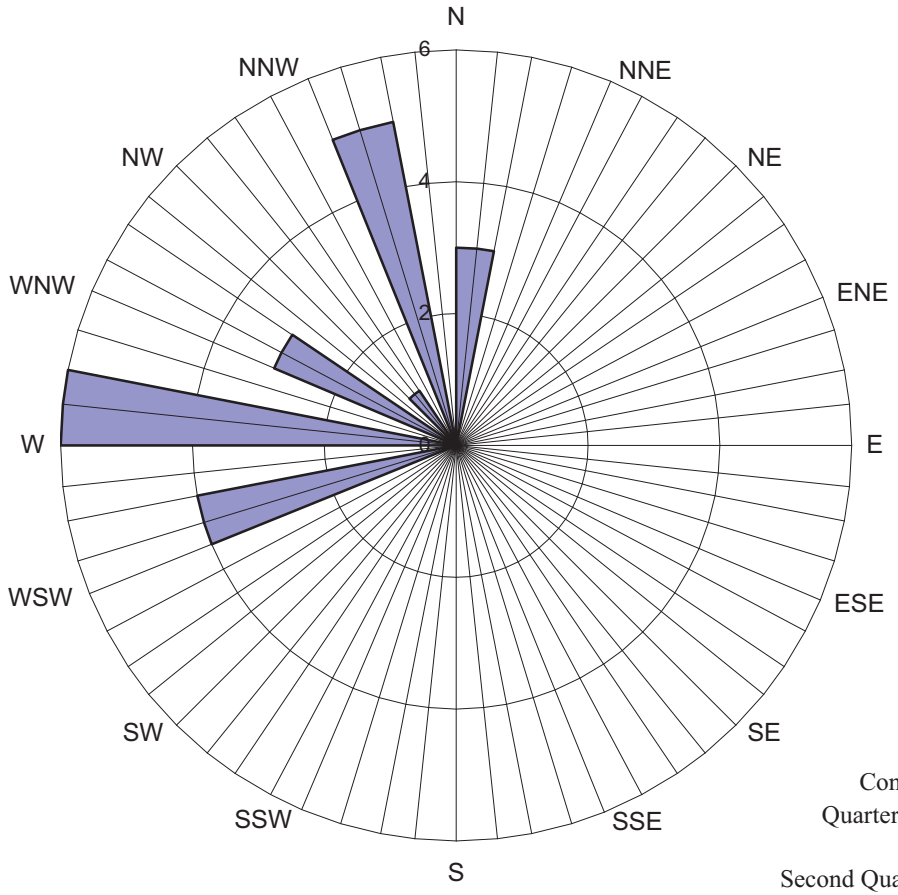
SHELL OIL PRODUCTS US
SHELL BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP 8/12/2010 AND 8/18/2010

5251 HOPYARD ROAD
PLEASANTON, CALIFORNIA

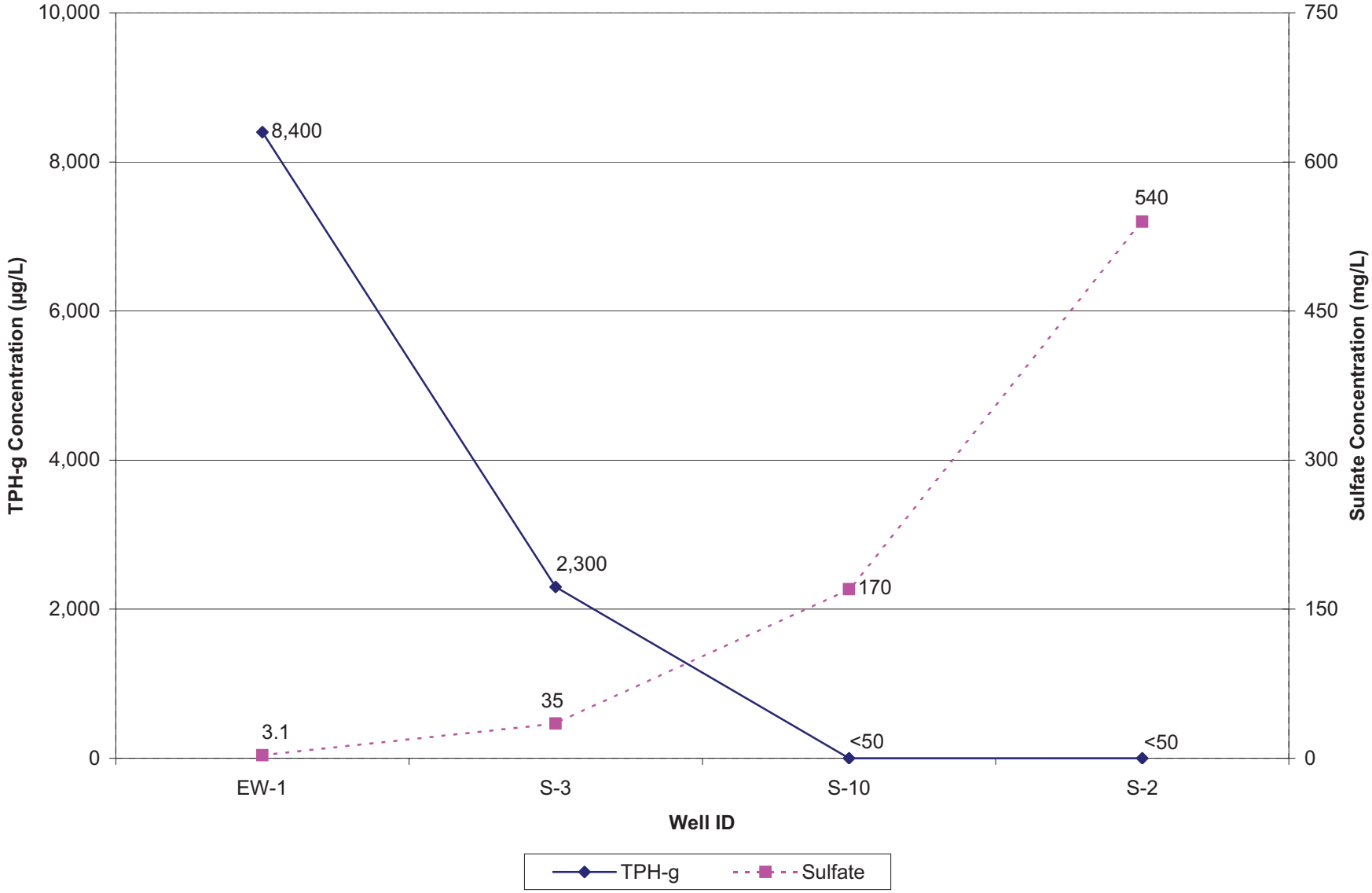
FIGURE 3
GROUNDWATER FLOW DIRECTION ROSE DIAGRAM
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California



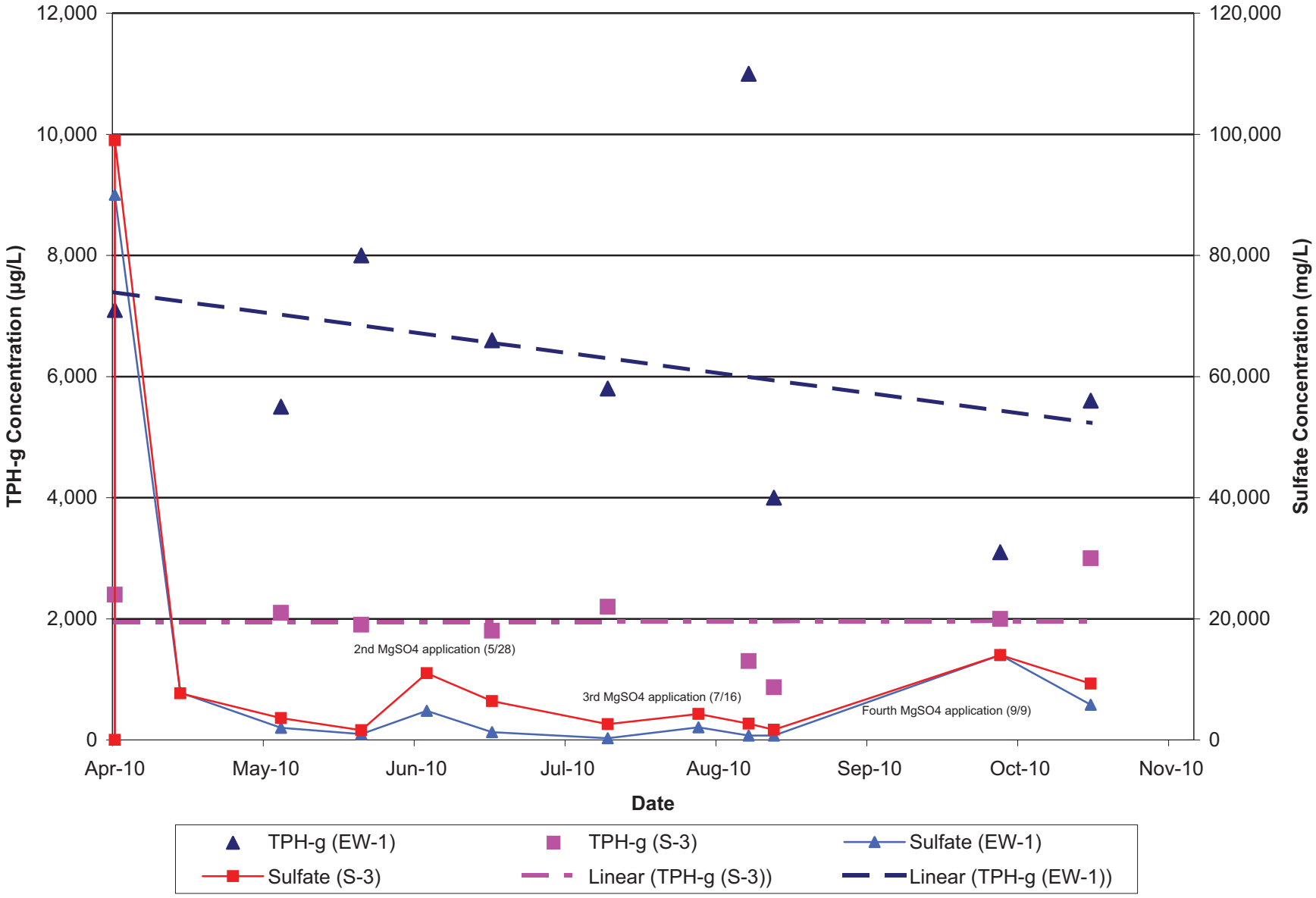
Legend
Concentric Circles represent
Quarterly and Semi-Annual Montoring
Events
Second Quarter 2002 through Third Quarter
2010
20 Data Points Shown

GRAPHS

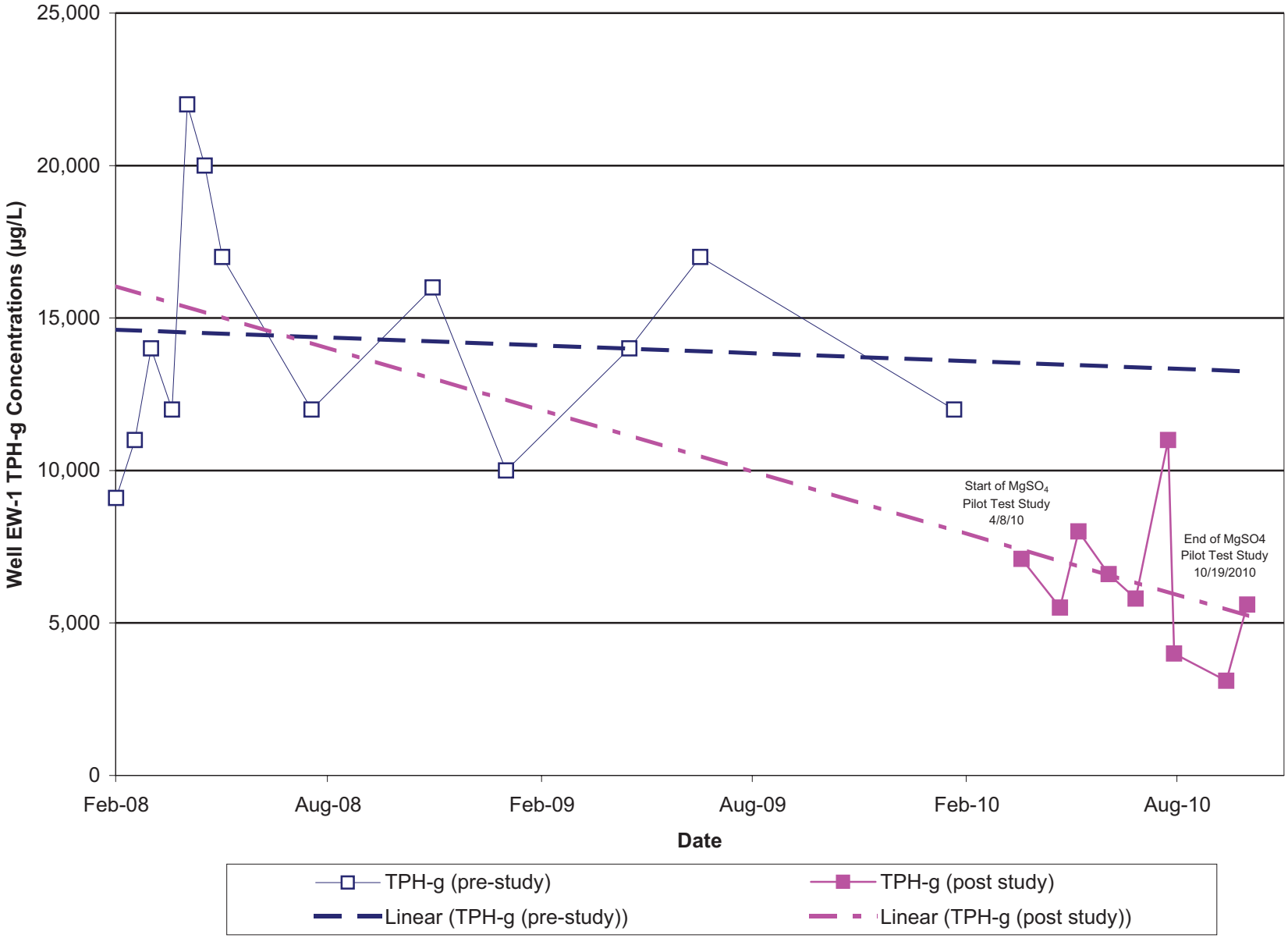
GRAPH 1
2009 $MgSO_4$ FEASIBILITY STUDY
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California



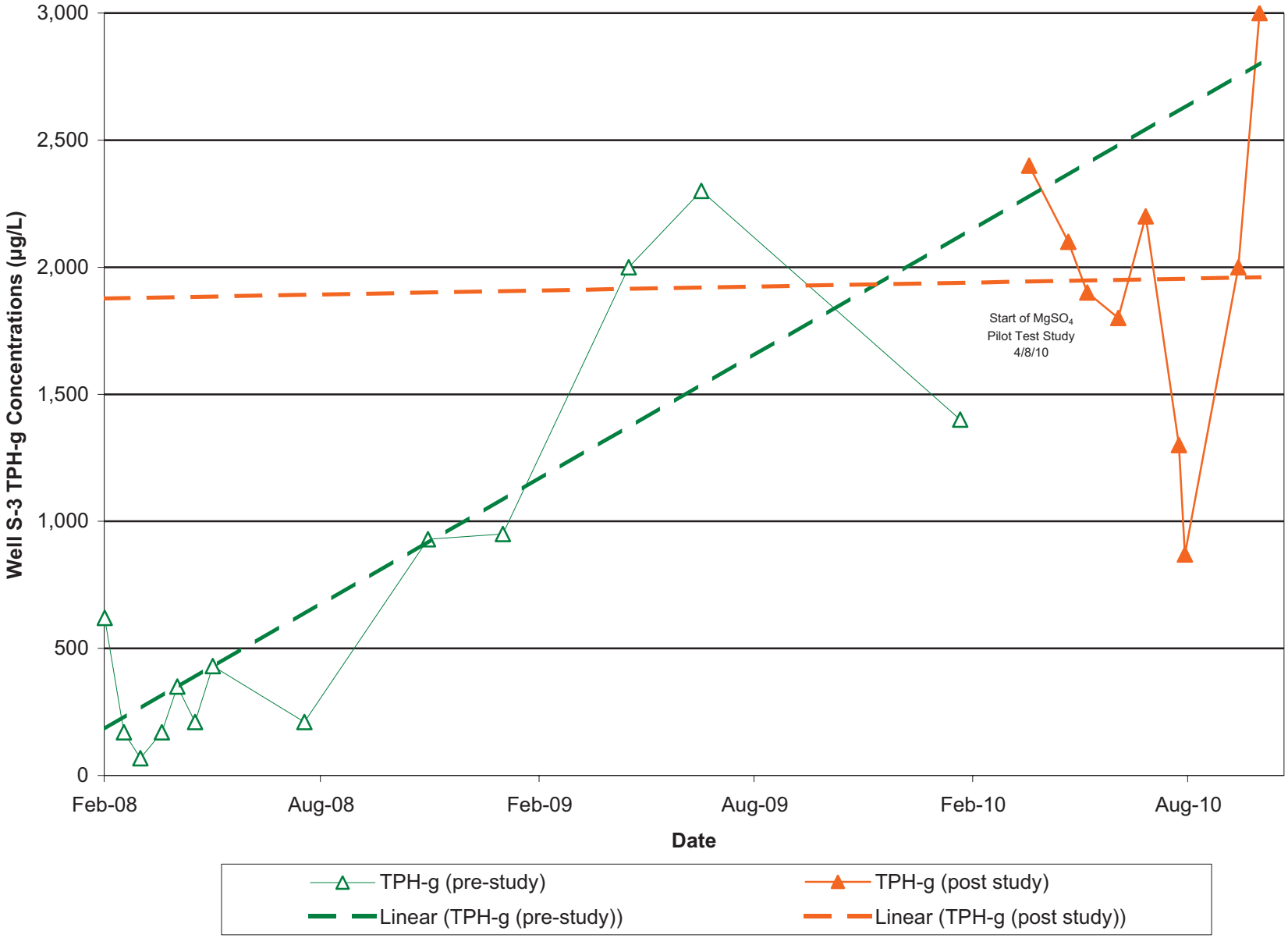
GRAPH 2
2010 $MgSO_4$ PILOT STUDY
5251 Hopyard Road
Pleasanton, California



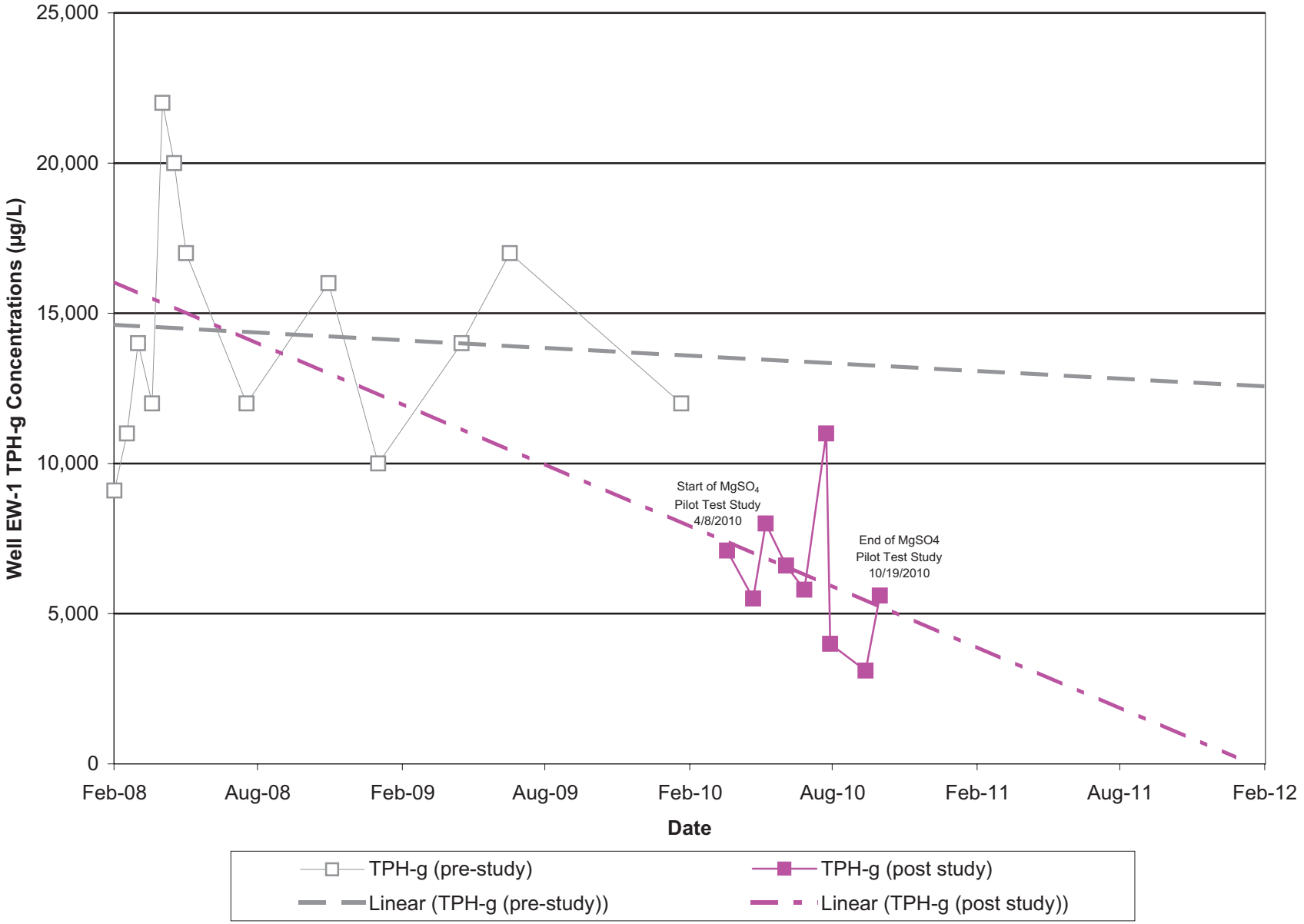
GRAPH 3
TPH-g TRENDS PRE- AND POST-$MgSO_4$ PILOT STUDY: WELL EW-1
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California



GRAPH 4
TPH-g TRENDS PRE- AND POST-$MgSO_4$ PILOT STUDY: WELL S-3
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California



GRAPH 5
PROJECTED ATTENUATION TREND FOR WELL EW-1 WITH CONTINUED $MgSO_4$ APPLICATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California



TABLES

TABLE 1
$MgSO_4$ APPLICATION FEASIBILITY GROUNDWATER TESTING DATA
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

Well ID	Date Sampled	TPH-g (ug/L)	BTEX Compounds				Fuel Oxygenates					Sulfate (mg/L)	Ferrous Iron (mg/L)
			B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)		
S-2	10/30/2009	<50	<0.50	<1.0	<1.0	<1.0	33	<2.0	<2.0	<2.0	10	540	<0.10
S-10	10/30/2009	<50	<0.50	<1.0	<1.0	<1.0	1.8	<2.0	<2.0	<2.0	860	170	<0.10
S-3	10/30/2009	2300	390	12	15	24	14	<10	<10	<10	<50	35	<0.10
EW-1	10/30/2009	8400	14	21	360	84	<2.0	<4.0	<4.0	<4.0	<20	3.1	2.1

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8015
B = Benzene, analyzed by EPA Method 8260B
T = Toluene, analyzed by EPA Method 8260B
E = Ethylbenzene, analyzed by EPA Method 8260B
X = Total xylenes, analyzed by EPA Method 8260B
MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260B
DIPE = Diisopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
Sulfate - Analyzed EPA Method 300.0
Ferrous Iron - Iron (II) analyzed by SM 3500-FeB
µg/L = Micrograms per liter, equivalent to parts per billion
mg/L = Milligrams per liter, equivalent to parts per million
< = Denotes no reported concentration above shown detection limit

TABLE 2
2010 $MgSO_4$ PILOT STUDY

Shell-branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	Volume $MgSO_4$ Applied (gallons)	DTW (feet)	pH (pH units)	Sulfate (mg/L)	Ferrous Iron (Fe+2)† (mg/L)	Ferric Iron (Fe+3) (mg/L)	BTEX Compounds TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
Observation Wells													
S-1	4/8/10 10:35 AM	N/A	7.95	7.49	3.1	ND(<0.10)[b]	0.511	9,300	23	38	320	56	17
S-1	5/27/10 10:30 AM	N/A	NR	7.5	ND(<1.0)	0.8	ND(<0.10)	14,000	20	36	200	57	ND(<2.0)
S-1	7/15/10 15:10 PM	N/A	7.96	7.90	ND(<1.0)	0.6	ND(<0.10)	12,000	20	38	200	54	ND(<5.0)
S-1	8/18/2010 14:35 PM	N/A	7.92	7.85	3.3	0.4	NS	4,000	15	26	87	34	10
S-1	10/19/10 14:40 PM	N/A	NR	8.00	1.7	0.8	ND(<0.10)	13,000	20	33	92	29	7.2
S-2	4/8/10 11:35 AM	N/A	8.14	7.52	600	ND(<0.10)[b]	0.120	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	38
S-2	5/27/10 10:15 AM	N/A	NR	7.2	570	0.0	ND(<0.10)	80	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	36
S-2	7/15/10 14:10 PM	N/A	8.30	7.72	570	0.0	ND(<0.10)	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	19
S-2	8/18/2010 14:35 PM	N/A	8.40	8.19	450	0.0	NS	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	24
S-2	10/19/10 15:20 PM	N/A	NR	7.68	510	0.0	ND(<0.10)	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	17
S-10	4/8/10 11:15 AM	N/A	7.68	7.71	170	ND(<0.10)[b]	0.915	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.5
S-10	5/27/10 9:45 AM	N/A	NR	6.3	160	0.0	0.367	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.6
S-10	7/15/10 13:50 PM	N/A	7.92	7.75	150	0.0	0.12	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
S-10	8/12/10 11:25 AM	N/A	8.04	7.47	110	0.0	NS	ND(<100)	ND(<1.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-10	10/19/10 15:00 PM	N/A	NR	8.16	140	0.0	0.26	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Application Points													
EW-1	4/8/10 9:45 AM[a]	55	7.81	7.05	2.7	ND(<0.10)[b]	10.2	7,100	16	25	95	29	3.7
EW-1	4/8/10 5:10 PM	N/A	NR	NR	90,000	NS	NS	NS	NS	NS	NS	NS	NS
EW-1	4/21/10 12:00 PM	N/A	NR	NR	7,800	NS	NS	NS	NS	NS	NS	NS	NS
EW-1	5/11/10 9:45 AM	N/A	NR	7.24	2,000	2.4	7.6	5,500	13	9.5	100	43	ND(<1.0)
EW-1	5/27/10 11:00 AM[c]	25	NR	7.1	960	1.8	5.72	8,000	17	9.8	200	66	ND(<5.0)
EW-1	6/9/10 10:05 AM	N/A	NR	NR	4,800	NS	NS	NS	NS	NS	NS	NS	NS
EW-1	6/22/10 10:30 AM	N/A	NR	7.38	1,300	2.8	2.29	6,600	5.2	4.5	53	20	ND(<2.0)
EW-1	7/15/10 14:40 PM[d]	25	7.78	7.82	300	2.4	0.49	5,800	4.7	4.5	52	27	ND(<2.0)
EW-1	8/2/10 13:50 PM	N/A	NR	4.65	2,100	2.6	NS	NS	NS	NS	NS	NS	NS
EW-1[e]	8/12/10 13:10 PM	N/A	8.03	6.98	730	1.2	NS	11,000[e]	2.9	17	370	110	ND(<2.0)
EW-1	8/17/10 11:00 AM	N/A	NR	7.71	740	0.9	0.17	4,000	5.0	3.8	2.9	52	ND(<2.0)
EW-1[f]	9/9/10 11:30 AM	55	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-1	10/1/10 14:20 PM	N/A	8.55	6.89	14,000	6.5	0.69	3,100	1.4	1.4	2.2	3.2	ND(<1.0)
EW-1	10/19/10 14:15 PM	N/A	NR	7.49	5,800	4.8	1.56	5,600	1.8	1.4	6.3	9	ND(<1.0)

TABLE 2
2010 $MgSO_4$ PILOT STUDY

Shell-branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	Volume $MgSO_4$ Applied (gallons)	DTW (feet)	pH (pH units)	Sulfate (mg/L)	Ferrous Iron (Fe+2)† (mg/L)	Ferric Iron (Fe+3) (mg/L)	TPH-g (ug/L)	BTEX Compounds B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)
S-3	4/8/10 10:15 AM[a]	55	8.45	7.46	19	ND(<0.10)[b]	1.82	2,400	270	6.0	4.0	3.6	11
S-3	4/8/10 7:30 PM	N/A	NR	NR	99,000	NS	NS	NS	NS	NS	NS	NS	NS
S-3	4/21/10 11:45 AM	N/A	NR	NR	7,700	NS	NS	NS	NS	NS	NS	NS	NS
S-3	5/11/10 9:55 AM	N/A	NR	7.11	3,600	4.8	1.43	2,100	230	2.9	15	2.7	9.3
S-3	5/27/10 11:15 AM[c]	40	NR	6.9	1,600	3.0	1.42	1,900	210	ND(<2.0)	4.1	ND(<2.0)	8.2
S-3	6/9/10 10:00 AM	N/A	NR	NR	11,000	NS	NS	NS	NS	NS	NS	NS	NS
S-3	6/22/10 10:15 AM	N/A	NR	6.93	6,400	4.5	4.43	1,800	270	2.4	26	4	5.8
S-3	7/15/10 14:50 PM[d]	45	8.39	7.48	2,600	3.2	1.4	2,200	230	ND(<2.0)	ND(<2.0)	ND(<2.0)	7.4
S-3	8/2/10 13:20 PM	N/A	NR	7.01	4,300	3.6	NS	NS	NS	NS	NS	NS	NS
S-3[e]	8/12/10 13:00 PM	N/A	8.46	6.89	2,700	0.6	NS	1,300	270	3.5	47	46	4.5
S-3	8/17/10 10:40 AM	N/A	NR	7.11	1,700	1.0	ND(<0.10)	870	90	1.3	17	15	4.9
S-3[f]	9/9/10 12:30 AM	55	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NS
S-3	10/1/10 14:40 PM	N/A	8.88	6.68	14,000	6.8	10.4	2,000	240	5.1	140	65	4.5
S-3	10/19/10 13:50 PM	N/A	NR	7.20	9,300	5.6	10.7	3,000	190	ND(<2.0)	80	24	6.9

Abbreviations:

$MgSO_4$ = Magnesium sulfate

DTW = Depth to water

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

mg/L = Parts per million

ug/L = Parts per billion

ND(<n) = Not detected above shown detection limit n

N/A = Not applicable

NR = Not reported

NS = Not sampled

Notes:

† = Ferrous iron samples collected in field and measured using a field kit unless otherwise specified

a = Initial $MgSO_4$ application following baseline sampling of all wells in study.

b = Ferrous Iron (Fe+2) samples collected and submitted for laboratory analysis; results were run out of hold time (24 hours) and not representative

c = Second $MgSO_4$ application event May 28th following sample collection; tech had difficulty with gravity feed resulting in time constraint, so a smaller volume was applied.

d = Third $MgSO_4$ application event was on the day following sample collection (July 16, 2010).

e = Samples collected by Blaine Tech during third quarter 2010 monitoring and sampling event; TPH-g data for well EW-1 appear anonalous, compared to pre- and post-concentrations.

f = Additional (fourth) $MgSO_4$ application event using a low-flow pump rather than gravity feed to attempt to apply more volume in the wells.

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	1/25/1991	2,500	1,500	460	<25	130	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	4/6/1991	6,700	2,600 a	2,600	14	580	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	7/24/1991	8,800	3,800 a	2,300	30	640	220	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/18/1991	12,000	3,300 a	3,600	380	990	580	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.85	317.88	NA
S-1	1/23/1992	1,600	890	450	3	120	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	4/27/1992	1,100 g	500 a	610	<10	110	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	7/21/1992	5,100	290 c	1,900	54	460	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/16/1992	13,000	390 c	3,200	310	780	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	1/23/1993	2,300	30 d	640	<5	110	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	7.96	318.77	NA
S-1	4/28/1993	4,600	390	780	<0.5	250	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	9.07	317.66	NA
S-1	9/22/1993	3,000	610 a	660	28	160	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.68	318.05	NA
S-1	12/8/1993	520	280	210	<2.5	49	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.23	318.50	NA
S-1	3/4/1994	640	NA	190	1.4	18	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1 (D)	3/4/1994	640	NA	180	1.7	17	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1	6/16/1994	2,500	NA	390	9.5	31	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1 (D)	6/16/1994	2,000	NA	410	7.8	120	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1	9/13/1994	1,400	NA	310	7.7	29	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1 (D)	9/13/1994	1,400	NA	240	7.9	44	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1	5/5/1995	800	NA	120	3.6	26	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1 (D)	5/5/1995	710	NA	110	3.4	19	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1	5/21/1996	1,500	NA	170	8.5	120	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.88	317.85	NA
S-1	5/12/1997	4,700	NA	200	15	210	20	2,300	NA	NA	NA	NA	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1 (D)	5/12/1997	4,800	NA	210	16	190	16	3,200	2,900	NA	NA	NA	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1	5/8/1998	500	NA	18	2.1	2.3	2	1,000	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.38	318.35	2.1
S-1	6/27/1999	2,970	NA	117	32.0	69.1	17.5	374	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.79	317.94	2.4
S-1	4/28/2000	1,920	NA	50.5	15.0	67.2	46.7	276	NA	NA	NA	NA	NA	NA	NA	NA	326.73	8.50	318.23	2.8
S-1	5/30/2001	3,900	NA	27	12	140	28	NA	140	NA	NA	NA	NA	NA	NA	NA	326.73	8.18	318.55	2.6
S-1	6/17/2002	2,700	NA	25	11	51	14	NA	140	NA	NA	NA	NA	NA	NA	NA	326.73	8.39	318.34	3.2
S-1	5/30/2003	3,900	NA	12	8.2	47	12	NA	270	NA	NA	NA	NA	NA	NA	NA	326.74	7.41	319.33	1.2
S-1	5/3/2004	3,700	NA	32	21	170	34	NA	410	NA	NA	NA	NA	NA	NA	NA	326.74	11.18	315.56	2.4
S-1	1/14/2005	4,200	NA	22	34	380	33	NA	100	NA	NA	NA	NA	NA	NA	NA	326.74	7.10	319.64	0.58
S-1	5/5/2005	5,000	NA	33	110	970	210	NA	190	<0.50	<0.50	0.95	630	NA	NA	NA	326.74	11.32	315.42	NA
S-1	08/05/2005 l	4,600	NA	32	52	420	69	NA	110	<40	<40	<40	410	NA	NA	NA	326.74	9.04	317.70	NA
S-1	9/16/2005	3,300	NA	14	28	280	43	NA	60	51	<10	<10	260	NA	NA	NA	326.74	11.37	315.37	NA
S-1	11/8/2005	4,700	NA	19.2	47	416	84.0	NA	50.2	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	326.74	9.06	317.68	NA

TABLE 3
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Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	1/31/2006	6,380	NA	21.0	33.1	280	31.0	NA	59.9	<0.500	<0.500	<0.500	306	NA	NA	NA	326.74	8.12	318.62	NA
S-1	5/16/2006	9,080	NA	25.8	46.6	517	86.6 m	NA	69.5	<0.500	<0.500	<0.500	268	NA	NA	NA	326.74	7.95	318.79	NA
S-1	8/23/2006	4,980	NA	19.0	22.7	74.7	38.7	NA	42.9	<0.500	<0.500	<0.500	252	NA	NA	NA	326.74	7.95	318.79	NA
S-1	11/13/2006	7,900	NA	38	41	480	52	NA	44	<5.0	<5.0	<5.0	480	NA	NA	NA	326.74	7.99	318.75	NA
S-1	2/1/2007	1,500	NA	18	15	110	17	NA	27	<10	<10	<10	640	NA	NA	NA	326.74	8.19	318.55	NA
S-1	5/23/2007	5,300 n	NA	35	42	260	67.9	NA	<5.0	<10	<10	<10	720	NA	NA	NA	326.74	10.50	316.24	NA
S-1	8/7/2007	6,900 n	NA	26	31	240	40.9 o	NA	30	<10	<10	<10	270	NA	NA	NA	326.74	8.13	318.61	NA
S-1	11/29/2007	840 n	NA	16	18	120	14.5	NA	26	<2.0	<2.0	<2.0	190	NA	NA	NA	326.74	9.40	317.34	NA
S-1	2/8/2008	4,500 n	NA	25	39	410	37	NA	28	<10	<10	<10	330	NA	NA	NA	326.74	7.91	318.83	NA
S-1	2/20/2008	5,700 n	NA	29	56	650	89	NA	35	<10	<10	<10	200	<500	NA	NA	326.74	8.70	318.04	NA
S-1	3/7/2008	6,800 n	NA	25	37	310	59.2	NA	<5.0	<10	<10	<10	240	<500	NA	NA	326.74	10.54	316.20	NA
S-1	3/21/2008	5,300	NA	22	23	210	38.7	NA	<2.0	<4.0	<4.0	<4.0	220	<200	NA	NA	326.74	9.79	316.95	NA
S-1	4/8/2008	4,200	NA	15	18	230	26.4	NA	<2.0	<4.0	<4.0	<4.0	240	<200	NA	NA	326.74	8.27	318.47	NA
S-1	4/21/2008	6,600	NA	21	27	440	53	NA	<2.0	<4.0	<4.0	<4.0	170	<200	NA	NA	326.74	8.17	318.57	NA
S-1	5/6/2008	5,700	NA	21	29	440	56	NA	<5.0	<10	<10	<10	270	<500	NA	NA	326.74	8.00	318.74	NA
S-1	5/21/2008	7,800	NA	29	51	620	108	NA	40	<10	<10	<10	190	<500	NA	NA	326.74	8.27	318.47	NA
S-1	8/6/2008	7,600	NA	17	27	140	30.0	NA	24	<10	<10	<10	180	NA	NA	NA	326.74	8.01	318.73	NA
S-1	11/18/2008	6,500	NA	27	35	310	45.0	NA	22	<20	<20	<20	180	NA	NA	NA	326.74	7.59	319.15	NA
S-1	1/20/2009	5,100	NA	19	21	140	22	NA	21	<10	<10	<10	230	NA	NA	NA	326.74	8.28	318.46	NA
S-1	5/6/2009	6,100	NA	26	37	520	51	NA	27	<10	<10	<10	180	NA	NA	NA	326.74	8.04	318.70	NA
S-1	7/6/2009	5,800	NA	25	34	370	44	NA	22	<10	<10	<10	180	NA	NA	NA	326.74	8.42	318.32	NA
S-1	2/9/2010	8,800	NA	18	33	340	37	NA	13	NA	NA	NA	66	NA	NA	NA	326.74	8.18	318.56	NA
S-1	**8/12/2010**	**Unable to access**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.74**	**NA**	**NA**	**NA**
S-1	**8/18/2010**	**4,000**	**NA**	**15**	**26**	**87**	**34**	**NA**	**10**	**NA**	**NA**	**NA**	**NA**	**NA**	**8.05**	**0.4**	**326.74**	**7.92**	**318.82**	**NA**
S-2	1/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	4/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	7/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.83	317.76	NA
S-2	1/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	4/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	7/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	1/23/1993	<50	140 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.10	318.49	NA
S-2	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.06	317.53	NA
S-2	9/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.91	317.68	NA

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S-2	12/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.07	317.52	NA
S-2	3/4/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.90	317.69	NA
S-2	6/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.98	317.61	NA
S-2	9/13/1994	<50	NA	<0.5	2.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.78	317.81	NA
S-2	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.60	317.99	NA
S-2	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.75	317.84	NA
S-2	5/12/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.72	317.87	3.4
S-2	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.63	317.96	3.1
S-2	6/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.79	317.80	2.6
S-2	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.33	318.26	2.0
S-2	5/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	326.59	8.56	318.03	1.8
S-2	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	326.59	8.87	317.72	i
S-2	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	NA	NA	NA	326.47	7.89	318.58	1.7
S-2	5/3/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	510	NA	NA	NA	NA	NA	NA	NA	326.47	5.44	321.03	0.1
S-2	1/14/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	270	NA	NA	NA	NA	NA	NA	NA	326.47	7.88	318.59	NA
S-2	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	280	<0.50	<0.50	0.55	8.9 j	NA	NA	NA	326.47	8.14	318.33	NA
S-2	08/05/2005 l	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	320	<2.0	<2.0	<2.0	510	NA	NA	NA	326.47	8.24	318.23	NA
S-2	9/16/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	320	<10	<10	<10	1,800	NA	NA	NA	326.47	8.06	318.41	NA
S-2	11/8/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	375	<0.500	<0.500	0.610	1,130	NA	NA	NA	326.47	8.20	318.27	NA
S-2	1/31/2006	281	NA	<0.500	<0.500	<0.500	<0.500	NA	354	<0.500	<0.500	<0.500	3,090	NA	NA	NA	326.47	8.18	318.29	NA
S-2	5/16/2006	785	NA	<0.500	<0.500	<0.500	<0.500	NA	282	<0.500	<0.500	<0.500	3,250	NA	NA	NA	326.47	8.34	318.13	NA
S-2	8/23/2006	344	NA	<0.500	<0.500	<0.500	<0.500	NA	194	<0.500	<0.500	0.560	10,600	NA	NA	NA	326.47	8.32	318.15	NA
S-2	11/13/2006	320	NA	<5.0 f	<5.0 f	<5.0 f	<5.0 f	NA	140 f	<5.0 f	<5.0 f	<5.0 f	6,000 f	NA	NA	NA	326.50	8.37	318.13	NA
S-2	2/1/2007	160	NA	<0.50	<0.50	<0.50	<1.0	NA	130	<2.0	<2.0	<2.0	3,900	NA	NA	NA	326.50	8.13	318.37	NA
S-2	5/23/2007	120 n	NA	<0.50	<1.0	<1.0	<1.0	NA	110	<2.0	<2.0	<2.0	1,500	NA	NA	NA	326.50	8.55	317.95	NA
S-2	8/7/2007	93 n,p	NA	<2.5	<5.0	<5.0	<5.0	NA	120	<10	<10	<10	1,700	NA	NA	NA	326.50	8.26	318.24	NA
S-2	11/29/2007	110 n,p	NA	<0.50	<1.0	<1.0	<1.0	NA	98	<2.0	<2.0	<2.0	880	NA	NA	NA	326.50	8.29	318.21	NA
S-2	2/8/2008	110 n,p	NA	<0.50	<1.0	<1.0	<1.0	NA	110	<2.0	<2.0	<2.0	830	NA	NA	NA	326.50	8.07	318.43	NA
S-2	2/20/2008	73 n,p	NA	<0.50	<1.0	<1.0	<1.0	NA	100	<2.0	<2.0	<2.0	650	<100	NA	NA	326.50	8.30	318.20	NA
S-2	3/7/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	57	<2.0	<2.0	<2.0	240	<100	NA	NA	326.50	9.25	317.25	NA
S-2	3/21/2008	73	NA	<0.50	<1.0	<1.0	<1.0	NA	91	<2.0	<2.0	<2.0	480	<100	NA	NA	326.50	9.01	317.49	NA
S-2	4/8/2008	88	NA	<0.50	<1.0	<1.0	<1.0	NA	72	<2.0	<2.0	<2.0	310	<100	NA	NA	326.50	8.46	318.04	NA
S-2	4/21/2008	60	NA	<0.50	<1.0	<1.0	<1.0	NA	8.6	<2.0	<2.0	<2.0	310	<100	NA	NA	326.50	9.60	316.90	NA
S-2	5/6/2008	62	NA	<0.50	<1.0	<1.0	<1.0	NA	53	<2.0	<2.0	<2.0	300	<100	NA	NA	326.50	10.55	315.95	NA
S-2	5/21/2008	130	NA	<0.50	<1.0	<1.0	<1.0	NA	61	<2.0	<2.0	<2.0	320	<100	NA	NA	326.50	9.43	317.07	NA
S-2	8/6/2008	76	NA	<0.50	<1.0	<1.0	<1.0	NA	46	<2.0	<2.0	<2.0	77	NA	NA	NA	326.50	8.41	318.09	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	42	<2.0	<2.0	<2.0	18	NA	NA	NA	326.50	8.38	318.12	NA
S-2	1/20/2009	57	NA	<0.50	<1.0	<1.0	<1.0	NA	46	<2.0	<2.0	<2.0	13	NA	NA	NA	326.50	8.64	317.86	NA
S-2	5/6/2009	64	NA	<0.50	<1.0	<1.0	<1.0	NA	58	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.50	8.31	318.19	NA
S-2	7/6/2009	110	NA	<0.50	<1.0	<1.0	<1.0	NA	59	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.50	8.53	317.97	NA
S-2	2/9/2010	62	NA	<0.50	<1.0	<1.0	<1.0	NA	42	NA	NA	NA	<10	NA	NA	NA	326.50	8.20	318.30	NA
S-2	**8/12/2010**	**Unable to access**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.50**	**NA**	**NA**	**NA**
S-2	**8/18/2010**	**<50**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**24**	**NA**	**NA**	**NA**	**NA**	**NA**	**7.51**	**0.0**	**326.50**	**8.40**	**318.10**	**NA**
S-3	1/25/1991	870	330	230	<2.5	130	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	4/16/1991	190	140 a	12	0.8	6.2	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	7/24/1991	1,700	1,200 a	450	4.4	150	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/18/1991	1,900	500	370	3.1	120	220	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA
S-3	1/23/1992	2,000	650 a	580	3	200	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	4/27/1992	1,100	230 a	150	<3	76	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	7/17/1992	810	58	200	<2.5	57	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/16/1992	440	190 c	79	1.8	18	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	1/23/1993	670	170 d	79	1.5	46	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.81	318.57	NA
S-3	4/28/1993	2,000	<50	300	3.4	210	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.87	317.51	NA
S-3	9/22/1993	4,800	670 a	2,000	34	150	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.65	317.73	NA
S-3	12/8/1993	1,200	11	440	<5.0	120	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.26	318.12	NA
S-3	3/4/1994	630	NA	130	<0.5	17	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA
S-3	6/16/1994	1,800	NA	430	19	35	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.78	317.60	NA
S-3	5/5/1995	160	NA	50	0.9	7.2	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.38	318.00	NA
S-3	5/21/1996	270	NA	45	<0.5	1.4	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3 (D)	5/21/1996	210	NA	<0.5	<0.5	0.95	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3	5/12/1997	420	NA	<1.0	<1.0	<1.0	<1.0	57	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	2.5
S-3	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.12	318.26	2.2
S-3	6/27/1999	106	NA	8.51	<0.500	<0.500	<0.500	31.0	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.39	317.99	2.1
S-3	4/28/2000	139	NA	7.58	<0.500	<0.500	<0.500	42.6	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.04	318.34	1.8
S-3	5/30/2001	2,200	NA	510	6.9	100	21	NA	33	NA	NA	NA	NA	NA	NA	NA	327.38	9.19	318.19	2.0
S-3	6/17/2002	600	NA	150	2.1	30	11	NA	36	NA	NA	NA	NA	NA	NA	NA	327.38	9.35	318.03	0.1
S-3	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	9.0	NA	NA	NA	NA	NA	NA	NA	327.04	8.39	318.65	1.2
S-3	5/3/2004	61 k	NA	0.90	<0.50	<0.50	<1.0	NA	9.8	NA	NA	NA	NA	NA	NA	NA	327.04	8.73	318.31	1.2
S-3	1/14/2005	94	NA	4.6	<0.50	3.1	1.0	NA	13	NA	NA	NA	NA	NA	NA	NA	327.04	8.00	319.04	NA
S-3	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	5.7	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	327.04	8.31	318.73	NA
S-3	08/05/2005 l	<50	NA	0.51	<0.50	<0.50	<1.0	NA	6.0	<2.0	<2.0	<2.0	42	NA	NA	NA	327.04	8.32	318.72	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	9/16/2005	<50	NA	0.62	<0.50	<0.50	<1.0	NA	7.9	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	327.04	8.29	318.75	NA
S-3	11/8/2005	166	NA	63.0	1.32	7.20	2.99	NA	8.67	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.04	8.17	318.87	NA
S-3	1/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	7.05	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.04	8.05	318.99	NA
S-3	5/16/2006	<50.0	NA	3.23	<0.500	1.42	1.63 m	NA	3.92	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.04	8.62	318.42	NA
S-3	8/23/2006	<50.0	NA	18.9	<0.500	1.72	0.800	NA	7.65	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.04	8.54	318.50	NA
S-3	11/13/2006	530	NA	130 f	3.4 f	10 f	4.6 f	NA	17 f	<2.0 f	<2.0 f	<2.0 f	<80 f	NA	NA	NA	327.01	8.65	318.36	NA
S-3	2/1/2007	430	NA	230	4.4	4.0	<5.0	NA	17	<10	<10	<10	<25	NA	NA	NA	327.01	8.41	318.60	NA
S-3	5/23/2007	1,400 n	NA	370	11	17	11.58 o	NA	21	<2.0	<2.0	<2.0	12	NA	NA	NA	327.01	8.37	318.64	NA
S-3	8/7/2007	1,000 n	NA	150	4.6 o	4.1 o	4.0 o	NA	21	<10	<10	<10	<50	NA	NA	NA	327.01	8.59	318.42	NA
S-3	11/29/2007	710 n	NA	110	3.1	3.8	5.3 o	NA	17	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.01	8.78	318.23	NA
S-3	2/8/2008	300 n	NA	2.7	<1.0	<1.0	<1.0	NA	19	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.01	8.05	318.96	NA
S-3	2/20/2008	620 n	NA	150	4.1	11	11	NA	19	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.57	318.44	NA
S-3	3/7/2008	170 n	NA	15	<1.0	2.5	4.0	NA	12	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.87	318.14	NA
S-3	3/21/2008	68	NA	4.8	<1.0	1.3	1.6	NA	8.6	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	9.00	318.01	NA
S-3	4/8/2008	170	NA	7.8	<1.0	2.6	4.0	NA	8.1	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.55	318.46	NA
S-3	4/21/2008	350	NA	2.8	<1.0	1.2	1.9	NA	12	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.65	318.36	NA
S-3	5/6/2008	210	NA	2.3	<1.0	<1.0	<1.0	NA	9.1	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.60	318.41	NA
S-3	5/21/2008	430	NA	21	<1.0	3.5	4.2	NA	17	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.01	8.81	318.20	NA
S-3	8/6/2008	210	NA	<0.50	<1.0	<1.0	<1.0	NA	13	<2.0	<2.0	<2.0	11	NA	NA	NA	327.01	8.71	318.30	NA
S-3	11/18/2008	930	NA	130	3.5	15	19	NA	18	<2.0	<2.0	<2.0	10	NA	NA	NA	327.01	8.79	318.22	NA
S-3	1/20/2009	950	NA	100	1.2	1.8	<1.0	NA	18	<2.0	<2.0	<2.0	16	NA	NA	NA	327.01	9.10	317.91	NA
S-3	5/6/2009	2,000	NA	490	5.9	14	4.8	NA	21	<2.0	<2.0	<2.0	14	NA	NA	NA	327.01	8.51	318.50	NA
S-3	7/6/2009	2,300	NA	500	10	30	13	NA	21	<10	<10	<10	<50	NA	NA	NA	327.01	8.80	318.21	NA
S-3	2/9/2010	1,400	NA	180	4.7	11	13	NA	12	NA	NA	NA	32	NA	NA	NA	327.01	8.36	318.65	NA
S-3	**8/12/2010**	**1,300**	**NA**	**270**	**3.5**	**47**	**46**	**NA**	**4.5**	**NA**	**NA**	**NA**	**21**	**NA**	**7.07**	**0.6**	**327.01**	**8.46**	**318.55**	**NA**
S-3	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**327.01**	**8.43**	**318.58**	**NA**
S-4	1/25/1991	<50	<50	<0.5	1.5	<0.5	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	4/16/1991	<50	0.7	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	7/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.82	318.56	NA
S-4	1/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	4/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	7/17/1992	<500	74	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/16/1992	<500	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	1/23/1993	<500	94 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.32	319.06	NA

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Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.76	317.62	NA
S-4	9/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	NA
S-4	12/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.74	317.64	NA
S-4	3/4/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.60	317.78	NA
S-4	6/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.42	317.96	NA
S-4	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.02	318.36	NA
S-4	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.29	318.09	NA
S-4	5/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	140	NA	NA	NA	NA	NA	NA	NA	NA	327.38	7.95	319.43	2.5
S-4	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	250	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.96	318.42	2.0
S-4	6/27/1999	303	NA	35.8	24.8	12.4	69.8	106	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.90	318.48	2.6
S-4	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	40.2	NA	NA	NA	NA	NA	NA	NA	NA	327.38	8.37	319.01	1.9
S-4	5/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	6.8	NA	NA	NA	NA	NA	NA	NA	327.38	8.83	318.55	1.8
S-4	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	31	NA	NA	NA	NA	NA	NA	NA	327.38	9.37	318.01	4.8
S-4	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	130	NA	NA	NA	NA	NA	NA	NA	327.24	8.46	318.78	1.4
S-4	5/3/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	170	NA	NA	NA	NA	NA	NA	NA	327.24	8.70	318.54	1.1
S-4	1/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	25	NA	NA	NA	NA	NA	NA	NA	327.24	8.17	319.07	NA
S-4	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	15	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	327.24	8.25	318.99	NA
S-4	8/5/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	6.1	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	327.24	8.14	319.10	NA
S-4	11/8/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	1.01	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.24	8.33	318.91	NA
S-4	1/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.24	8.29	318.95	NA
S-4	5/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.24	8.46	318.78	NA
S-4	8/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.24	8.34	318.90	NA
S-4	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	NA	327.24	8.23	319.01	NA
S-4	2/1/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	327.24	8.56	318.68	NA
S-4	5/23/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	0.60 o	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	7.92	319.32	NA
S-4	8/7/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	0.32 o	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.52	318.72	NA
S-4	11/29/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.58	318.66	NA
S-4	2/8/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.07	319.17	NA
S-4	5/21/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.24	8.80	318.44	NA
S-4	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.73	318.51	NA
S-4	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.77	318.47	NA
S-4	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	9.32	317.92	NA
S-4	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.45	318.79	NA
S-4	7/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.24	8.79	318.45	NA
S-4	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	NA	NA	327.24	8.59	318.65	NA
S-4	**8/12/2010**	**Unable to access**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**327.24**	**NA**	**NA**	**NA**

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**327.24**	**8.50**	**318.74**	**NA**
S-5	1/25/1991	<50	<50	<0.5	<0.5	<0.5	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	4/16/1991	<50	<50	<0.5	<0.5	<0.5	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	7/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	10/18/1991	120 e	<50	4.3	<0.5	1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	10.00	317.76	NA
S-5	1/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	4/27/1992	50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	7/17/1992	<50	70	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	10/16/1992	230	57	13	<0.5	4.9	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	1/23/1993	<50	150 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	8.88	318.88	NA
S-5	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	10.20	317.56	NA
S-5	9/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.92	317.84	NA
S-5	12/8/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	10.19	317.57	NA
S-5	3/4/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.95	317.81	NA
S-5	6/16/1994	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	10.02	317.74	NA
S-5	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.58	318.18	NA
S-5	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.84	317.92	NA
S-5	5/12/1997	360	NA	3.3	<0.50	17	9.8	130	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.16	318.60	4.2
S-5	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	92	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5 (D)	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	100	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5	6/27/1999	223	NA	13.7	12.9	8.20	45.8	106	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.39	318.37	3.0
S-5	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	255	NA	NA	NA	NA	NA	NA	NA	NA	327.76	9.43	318.33	1.2
S-5	5/30/2001	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	480	NA	NA	NA	NA	NA	NA	NA	327.76	9.47	318.29	1.1
S-5	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	210	NA	NA	NA	NA	NA	NA	NA	327.76	9.74	318.02	0.2
S-5	5/30/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	450	NA	NA	NA	NA	NA	NA	NA	327.43	8.87	318.56	1.7
S-5	5/3/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	NA	NA	NA	327.43	9.10	318.33	0.7
S-5	1/14/2005	<100	NA	<1.0	<1.0	<1.0	<2.0	NA	230	NA	NA	NA	NA	NA	NA	NA	327.43	8.43	319.00	NA
S-5	5/5/2005	76	NA	16	<0.50	<0.50	<0.50	NA	120	<0.50	<0.50	<0.50	630	NA	NA	NA	327.43	8.71	318.72	NA
S-5	08/05/2005 l	1,900	NA	57	7.5	22	17	NA	240	<4	<4	<4	480	NA	NA	NA	327.43	8.90	318.53	NA
S-5	9/16/2005	1,400	NA	87	2.0	7.8	5.8	NA	75	<4.0	<4.0	<4.0	630	NA	NA	NA	327.43	8.84	318.59	NA
S-5	11/8/2005	315	NA	35.8	<0.500	<0.500	1.07	NA	49.1	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	327.43	8.86	318.57	NA
S-5	1/31/2006	335	NA	7.74	<0.500	<0.500	<0.500	NA	48.2	<0.500	<0.500	<0.500	337	NA	NA	NA	327.43	8.66	318.77	NA
S-5	5/16/2006	349	NA	3.54	<0.500	<0.500	<0.500	NA	24.7	<0.500	<0.500	<0.500	182	NA	NA	NA	327.43	9.00	318.43	NA
S-5	8/23/2006	<50.0	NA	5.39	<0.500	<0.500	<0.500	NA	17.0	<0.500	<0.500	<0.500	91.0	NA	NA	NA	327.43	8.97	318.46	NA
S-5	11/13/2006	420	NA	19	1.7	<0.50	1.7	NA	19	<0.50	<0.50	<0.50	80	NA	NA	NA	327.43	8.77	318.66	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-5	2/1/2007	280	NA	14	2.1	<0.50	1.4	NA	13	<2.0	<2.0	<2.0	42	NA	NA	NA	327.43	9.30	318.13	NA
S-5	5/23/2007	590 n	NA	19	2.0	<1.0	0.92 o	NA	11	<2.0	<2.0	<2.0	24	NA	NA	NA	327.43	8.73	318.70	NA
S-5	8/7/2007	450 n	NA	10	1.0	<1.0	<1.0	NA	13	<2.0	<2.0	<2.0	17	NA	NA	NA	327.43	9.00	318.43	NA
S-5	11/29/2007	340 n	NA	4.1	0.34 o	<1.0	<1.0	NA	7.1	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	9.06	318.37	NA
S-5	2/8/2008	270 n	NA	4.7	<1.0	<1.0	<1.0	NA	6.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	8.75	318.68	NA
S-5	2/20/2008	340 n	NA	4.6	<1.0	<1.0	<1.0	NA	5.5	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.03	318.40	NA
S-5	3/7/2008	220 n	NA	1.8	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.20	318.23	NA
S-5	3/21/2008	150	NA	0.71	<1.0	<1.0	<1.0	NA	5.2	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.43	318.00	NA
S-5	4/8/2008	120	NA	0.76	<1.0	<1.0	<1.0	NA	5.2	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.11	318.32	NA
S-5	4/21/2008	190	NA	0.63	<1.0	<1.0	<1.0	NA	3.4	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.17	318.26	NA
S-5	5/6/2008	150	NA	1.0	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	190	NA	NA	327.43	8.80	318.63	NA
S-5	5/21/2008	250	NA	1.6	<1.0	<1.0	<1.0	NA	3.8	<2.0	<2.0	<2.0	<10	<100	NA	NA	327.43	9.20	318.23	NA
S-5	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	6.2	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	9.11	318.32	NA
S-5	11/18/2008	93	NA	<0.50	<1.0	<1.0	<1.0	NA	3.5	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	9.06	318.37	NA
S-5	1/20/2009	59	NA	<0.50	<1.0	<1.0	<1.0	NA	2.7	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	9.60	317.83	NA
S-5	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	2.5	<2.0	<2.0	<2.0	<10	NA	NA	NA	327.43	8.94	318.49	NA
S-5	7/6/2009	62	NA	<0.50	<1.0	<1.0	<1.0	NA	2.5	<2.0	<2.0	<2.0	11	NA	NA	NA	327.43	9.18	318.25	NA
S-5	2/9/2010	130	NA	2.3	<1.0	<1.0	<1.0	NA	2.4	NA	NA	NA	<10	NA	NA	NA	327.43	8.90	318.53	NA
S-5	**8/12/2010**	**220**	**NA**	**3.3**	**<1.0**	**<1.0**	**<1.0**	**NA**	**2.8**	**NA**	**NA**	**NA**	**<10**	**NA**	**6.81**	**NA**	**327.43**	**9.22**	**318.21**	**NA**
S-5	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**327.43**	**9.12**	**318.31**	**NA**
S-6	1/25/1991	<50	<50	<0.5	1.7	<0.5	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	4/16/1991	<50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	7/24/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	10/18/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.84	317.22	NA
S-6	1/23/1992	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	4/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	7/17/1992	400	130	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	1/23/1993	<50	230 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	7.82	318.74	NA
S-6	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	9.00	317.56	NA
S-6	9/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.61	317.96	NA
S-6	12/8/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	10.02	316.54	NA
S-6	3/4/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.88	317.68	NA
S-6	6/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	9.04	317.52	NA
S-6	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.54	318.02	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-6	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.62	317.94	NA
S-6	5/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.60	317.96	2.6
S-6	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.56	7.90	318.66	2.2
S-6	6/27/1999	430	NA	50.1	30.5	15.2	83.5	8.05	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.01	318.55	2.3
S-6	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	326.56	8.84	317.72	2.0
S-6	5/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	326.56	8.54	318.02	1.9
S-6	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	326.56	8.48	318.08	1.3
S-6	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	8.7	NA	NA	NA	NA	NA	NA	NA	326.35	7.36	318.99	1.0
S-6	5/3/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	326.35	8.08	318.27	0.9
S-6	1/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	326.35	7.38	318.97	NA
S-6	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	326.35	7.55	318.80	NA
S-6	8/5/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	326.35	7.61	318.74	NA
S-6	11/8/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	326.35	7.64	318.71	NA
S-6	1/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	30.5	NA	NA	NA	326.35	7.90	318.45	NA
S-6	5/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	326.35	8.16	318.19	NA
S-6	8/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	10.9	NA	NA	NA	326.35	7.77	318.58	NA
S-6	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	NA	326.35	8.15	318.20	NA
S-6	2/1/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.2	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	326.35	8.36	317.99	NA
S-6	5/23/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	7.80	318.55	NA
S-6	8/7/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	0.39 o	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	8.07	318.28	NA
S-6	11/29/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	8.17	318.18	NA
S-6	2/8/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	7.67	318.68	NA
S-6	5/21/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	NA	NA	326.35	8.17	318.18	NA
S-6	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	7.89	318.46	NA
S-6	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	8.30	318.05	NA
S-6	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	8.01	318.34	NA
S-6	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	7.96	318.39	NA
S-6	7/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.35	8.32	318.03	NA
S-6	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	NA	NA	326.35	7.99	318.36	NA
S-6	**8/12/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.35**	**7.84**	**318.51**	**NA**
S-7	1/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	4/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	7/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/18/1991	<50	140 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.92	317.57	NA
S-7	1/23/1992	<50	140 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-7	4/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	7/17/1992	<50	<50	<0.5	1.8	0.6	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	1/23/1993	<50	110 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.06	318.43	NA
S-7	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.94	317.55	NA
S-7	9/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.57	317.92	NA
S-7	12/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.00	317.49	NA
S-7	3/4/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	NA
S-7	6/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.12	317.37	NA
S-7	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.58	317.91	NA
S-7	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.64	317.85	NA
S-7	5/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.74	317.75	2.3
S-7	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.00	318.49	2.5
S-7	6/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.75	317.74	2.9
S-7	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	2.2
S-7	5/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	326.49	8.65	317.84	2.0
S-7	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	326.49	8.55	317.94	2.3
S-7	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	NA	NA	NA	326.36	7.88	318.48	1.8
S-7	5/3/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	NA	NA	NA	NA	NA	NA	NA	326.36	8.30	318.06	1.2
S-7	1/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	NA	NA	NA	NA	326.36	7.70	318.66	NA
S-7	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	91	<0.50	<0.50	6.8	<5.0	NA	NA	NA	326.36	7.60	318.76	NA
S-7	8/5/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	<2.0	<2.0	7.5	<5.0	NA	NA	NA	326.36	8.42	317.94	NA
S-7	11/8/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	124	<0.500	<0.500	8.70	<10.0	NA	NA	NA	326.36	7.61	318.75	NA
S-7	1/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	93.0	<0.500	<0.500	4.50	<10.0	NA	NA	NA	326.36	7.85	318.51	NA
S-7	5/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	76.3	<0.500	<0.500	2.98	<10.0	NA	NA	NA	326.36	8.08	318.28	NA
S-7	8/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	34.7	<0.500	<0.500	2.02	<10.0	NA	NA	NA	326.36	7.93	318.43	NA
S-7	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	27	<0.50	<0.50	1.6	<20	NA	NA	NA	326.36	8.15	318.21	NA
S-7	2/1/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	45	<2.0	<2.0	2.9	28	NA	NA	NA	326.36	8.35	318.01	NA
S-7	5/23/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	1.7	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.11	318.25	NA
S-7	8/7/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	23	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.36	318.00	NA
S-7	11/29/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	10	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.19	318.17	NA
S-7	2/8/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	9.2	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	7.73	318.63	NA
S-7	5/21/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	8.8	<2.0	<2.0	<2.0	<10	<100	NA	NA	326.36	8.10	318.26	NA
S-7	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	1.2	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.49	317.87	NA
S-7	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	7.6	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.31	318.05	NA
S-7	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	7.7	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.39	317.97	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
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Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-7	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	6.4	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.39	317.97	NA
S-7	7/6/2009	58	NA	<0.50	<1.0	<1.0	<1.0	NA	4.3	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.36	8.63	317.73	NA
S-7	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	8.4	NA	NA	NA	<10	NA	NA	NA	326.36	8.15	318.21	NA
S-7	**8/12/2010**	**<50**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**NA**	**NA**	**NA**	**<10**	**NA**	**7.08**	**NA**	**326.36**	**7.98**	**318.38**	**NA**
S-8	1/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	4/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	7/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/18/1991	<50	360 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.62	317.70	NA
S-8	1/23/1992	<50	90	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	4/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	7/17/1992	53	<50	<0.5	1	<0.5	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	1/23/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.00	318.32	NA
S-8	4/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.77	317.55	NA
S-8	9/22/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.67	317.65	NA
S-8	12/8/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.76	317.56	NA
S-8	3/4/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.66	317.66	NA
S-8	6/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.78	317.54	NA
S-8	5/5/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.42	317.90	NA
S-8	5/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.50	317.82	NA
S-8	5/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.56	317.76	1.6
S-8	5/8/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.64	317.68	2.0
S-8	6/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	NA	NA	NA	325.32	7.75	317.57	2.3
S-8	4/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	325.32	8.02	317.30	1.8
S-8	5/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	325.32	7.34	317.98	1.8
S-8	6/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	325.32	7.45	317.87	1.8
S-8	5/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	NA	NA	NA	325.03	7.39	317.64	3.0
S-8	5/3/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	325.03	7.00	318.03	1.0
S-8	1/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	325.03	8.65	316.39	NA
S-8	5/5/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	325.03	6.73	318.30	NA
S-8	8/5/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	325.03	6.93	318.10	NA
S-8	11/8/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	325.03	6.95	318.08	NA
S-8	1/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	325.03	6.91	318.12	NA
S-8	5/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	325.03	7.02	318.01	NA
S-8	8/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	325.03	6.98	318.05	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-8	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	NA	325.03	7.09	317.94	NA
S-8	2/1/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	325.03	7.27	317.76	NA
S-8	5/23/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	6.80	318.23	NA
S-8	8/7/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.04	317.99	NA
S-8	11/29/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.04	317.99	NA
S-8	2/8/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	6.77	318.26	NA
S-8	5/21/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	NA	NA	325.03	7.10	317.93	NA
S-8	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	6.94	318.09	NA
S-8	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.10	317.93	NA
S-8	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.18	317.85	NA
S-8	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.18	317.85	NA
S-8	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.01	318.02	NA
S-8	7/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.03	7.83	317.20	NA
S-8	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	NA	NA	325.03	6.91	318.12	NA
S-8	**8/12/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**325.03**	**7.14**	**317.89**	**NA**
S-9	11/22/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.89	7.61	318.28	NA
S-9	11/27/2006	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	325.89	7.77	318.12	NA
S-9	2/1/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	325.89	8.14	317.75	NA
S-9	5/23/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.85	318.04	NA
S-9	8/7/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.77	318.12	NA
S-9	11/29/2007	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.99	317.90	NA
S-9	2/8/2008	<50 n	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.78	318.11	NA
S-9	5/21/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	NA	NA	325.89	7.84	318.05	NA
S-9	8/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.69	318.20	NA
S-9	11/18/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	7.93	317.96	NA
S-9	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	8.13	317.76	NA
S-9	5/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	8.02	317.87	NA
S-9	7/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	325.89	8.06	317.83	NA
S-9	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	NA	NA	325.89	7.80	318.09	NA
S-9	**8/12/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**325.89**	**7.96**	**317.93**	**NA**
S-9	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**325.89**	**7.86**	**318.03**	**NA**
S-10	6/30/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.24	8.04	318.20	NA
S-10	7/6/2009	340	NA	<1.0	<2.0	<2.0	<2.0	NA	<2.0	<4.0	<4.0	<4.0	5,100	NA	NA	NA	326.24	8.11	318.13	NA
S-10	2/9/2010	65	NA	<0.50	<1.0	<1.0	<1.0	NA	1.7	NA	NA	NA	1,400	NA	NA	NA	326.24	7.90	318.34	NA

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-10	**8/12/2010**	**<100**	**NA**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**NA**	**<2.0**	**NA**	**NA**	**NA**	**610**	**NA**	**7.44**	**0.0**	**326.24**	**8.04**	**318.20**	**NA**
S-10	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.24**	**8.04**	**318.20**	**NA**
S-11	6/30/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.12	7.97	318.15	NA
S-11	7/6/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.12	7.98	318.14	NA
S-11	2/9/2010	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	NA	NA	326.12	9.99	316.13	NA
S-11	**8/12/2010**	**<50**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**NA**	**NA**	**NA**	**<10**	**NA**	**7.28**	**NA**	**326.12**	**8.17**	**317.95**	**NA**
S-11	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.12**	**7.91**	**318.21**	**NA**
S-12	6/30/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.91	8.49	318.42	NA
S-12	7/6/2009	83	NA	<0.50	<1.0	<1.0	<1.0	NA	37	<2.0	<2.0	<2.0	<10	NA	NA	NA	326.91	8.89	318.02	NA
S-12	2/9/2010	57	NA	<0.50	<1.0	<1.0	<1.0	NA	26	NA	NA	NA	11	NA	NA	NA	326.91	7.97	318.94	NA
S-12	**8/12/2010**	**Unable to access**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.91**	**NA**	**NA**	**NA**
S-12	**8/18/2010**	**<50**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**7.67**	**NA**	**326.91**	**8.33**	**318.58**	**NA**
EW-1	2/20/2008	9,100 n	NA	110	180	840	146.9	NA	<5.0	<10	<10	<10	<50	<500	NA	NA	NA	8.07	NA	NA
EW-1	3/7/2008	11,000 n	NA	380	200	370	317.0	NA	<5.0	<10	<10	<10	<50	<500	NA	NA	NA	17.80	NA	NA
EW-1	3/21/2008	14,000	NA	690	430	750	614	NA	<5.0	<10	<10	<10	<50	<500	NA	NA	NA	8.61	NA	NA
EW-1	4/8/2008	12,000	NA	430	200	430	302	NA	<5.0	<10	<10	<10	<50	<500	NA	NA	NA	8.40	NA	NA
EW-1	4/21/2008	22,000	NA	430	510	1,100	747	NA	<5.0	<10	<10	<10	71	<500	NA	NA	NA	8.33	NA	NA
EW-1	5/6/2008	20,000	NA	280	620	1,000	616	NA	<10	<20	<20	<20	<100	<1,000	NA	NA	NA	8.30	NA	NA
EW-1	5/21/2008	17,000	NA	180	440	830	484	NA	<10	<20	<20	<20	<100	<1,000	NA	NA	NA	8.60	NA	NA
EW-1	8/6/2008	12,000	NA	140	79	720	110	NA	<10	<20	<20	<20	<100	NA	NA	NA	NA	8.41	NA	NA
EW-1	11/18/2008	16,000	NA	94	170	970	310	NA	<20	<40	<40	<40	<200	NA	NA	NA	NA	8.03	NA	NA
EW-1	1/20/2009	10,000	NA	110	58	440	61	NA	<20	<40	<40	<40	<200	NA	NA	NA	NA	8.98	NA	NA
EW-1	5/6/2009	14,000	NA	73	120	690	120	NA	<20	<40	<40	<40	<200	NA	NA	NA	NA	7.92	NA	NA
EW-1	7/6/2009	17,000	NA	18	82	750	140	NA	<10	<20	<20	<20	<100	NA	NA	NA	326.98	8.21	318.77	NA
EW-1	2/9/2010	12,000	NA	13	41	490	120	NA	<5.0	NA	NA	NA	<50	NA	NA	NA	326.98	8.20	318.78	NA
EW-1	**8/12/2010**	**11,000**	**NA**	**2.9**	**17**	**370**	**113.4**	**NA**	**<2.0**	**NA**	**NA**	**NA**	**<20**	**NA**	**7.13**	**1.2**	**326.98**	**8.03**	**318.95**	**NA**
EW-1	**8/18/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.98**	**8.09**	**318.89**	**NA**
EW-2	12/14/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.25	NA	NA
EW-2	2/8/2008	70 n,p	NA	<0.50	<1.0	<1.0	<1.0	NA	8.9	<2.0	<2.0	<2.0	940	NA	NA	NA	NA	8.42	NA	NA
EW-2	2/20/2008	59 n,p	NA	<1.0	<2.0	<2.0	<2.0	NA	10	<4.0	<4.0	<4.0	1,300	<200	NA	NA	NA	8.85	NA	NA
EW-2	3/7/2008	850 n,p	NA	<1.0	<2.0	<2.0	<2.0	NA	8.0	<4.0	<4.0	<4.0	1,200	<200	NA	NA	NA	9.75	NA	NA
EW-2	3/21/2008	350	NA	5.3	4.6	6.2	18	NA	<2.0	<4.0	<4.0	<4.0	990	<200	NA	NA	NA	9.51	NA	NA

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EW-2	4/8/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	8.9	<2.0	<2.0	<2.0	180	<100	NA	NA	NA	9.12	NA	NA
EW-2	4/21/2008	140	NA	<0.50	<1.0	<1.0	<1.0	NA	57	<2.0	<2.0	<2.0	230	<100	NA	NA	NA	8.86	NA	NA
EW-2	5/6/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	8.3	<2.0	<2.0	<2.0	590	<100	NA	NA	NA	8.87	NA	NA
EW-2	5/21/2008	53	NA	<0.50	<1.0	<1.0	<1.0	NA	11	<2.0	<2.0	<2.0	380	<100	NA	NA	NA	9.00	NA	NA
EW-2	8/6/2008	60	NA	<0.50	<1.0	<1.0	<1.0	NA	10	<2.0	<2.0	<2.0	560	NA	NA	NA	NA	8.81	NA	NA
EW-2	11/18/2008	140	NA	8.0	<1.0	6.2	29	NA	7.4	<2.0	<2.0	<2.0	410	NA	NA	NA	NA	8.92	NA	NA
EW-2	1/20/2009	<50	NA	<0.50	<1.0	<1.0	<1.0	NA	6.8	<2.0	<2.0	<2.0	390	NA	NA	NA	NA	9.28	NA	NA
EW-2	5/6/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.21	NA	NA	NA

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001 analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isoproyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
TOB = Top of Wellbox Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
mg/L = milligrams per litre
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample

TABLE 3
WELL CONCENTRATIONS
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	pH	Fe^{2+} (mg/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:
Ethanol analyzed by EPA Method 8260B
a = Compounds detected as TEPH appear to be the less volatile constituents of gasoline.
b = The concentration reported as TEPH primarily due to the presence of a heavier petroleum product.
c = The concentration reported as TEPH due to the presence of a lighter petroleum product.
d = Concentrations reported as diesel includes a heavier petroleum product.
e = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard gasoline pattern.
f = There was insufficient preservative to reduce the sample pH to less than 2.
g = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard diesel pattern.
h = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.
i = DO reading not taken.
j = The results may be biased slightly high.
k = The hydrocarbon reported in the gasoline range does not match the laboratory standard.
l = Extracted out of holding time.
m = Analyte was detected in the associated Method Blank.
n = Analyzed by EPA Method 8015B (M).
o = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
p = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
Site surveyed April 16, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Beginning May 30, 2003, depth to water referenced to Top of Casing elevation.
Wells S-2, S-3 and S-9 were surveyed on November 22, 2006 by Mid Coast Engineers.
Wells S-10 through S-12 and EW-1 were surveyed on June 25, 2009 by Mid Coast Engineers.

APPENDIX A

REGULATORY CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Acting Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 12, 2010

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Carl Cox
CJC Hopyard LLC
4431 Stoneridge Drive, #100
Pleasanton, CA 94588-8412

Subject: Fuel Leak Case No. RO0000194 and Geotracker Global ID T0600101267, Shell#13-5785, 5251 Hopyard Road, Pleasanton, CA 94566

Dear Mr. Brown and Mr. Cox:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recent document entitled, "*Magnesium Sulfate Feasibility Study and Work Plan, Shell Branded Service Station, 5251 Hopyard Road, Pleasanton, California*," dated March 19, 2009. The Work Plan, which was prepared on Shell's behalf by Delta Environmental Consultants, Inc., proposes adding magnesium sulfate to groundwater through infiltration to enhance biodegradation processes in the source area.

The proposed scope of work is acceptable and may be implemented as proposed. We request that you perform the proposed work and present results from the feasibility study in the quarterly reports described below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **45 days following the end of each quarter** – Quarterly Feasibility Study and Monitoring Reports

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program

FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (*Sent via E-mail to: dstefani@lpfire.org*)

Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (*Sent via E-mail to: cdizon@zone7water.com*)

Suzanne McClurkin-Nelson, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138 (*Sent via E-mail to: SMcClurkin-Nelson@deltaenv.com*)

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH
Geotracker, File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
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   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

September 10, 2010

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Carl Cox
CJC Hopyard LLC
4431 Stoneridge Drive, #100
Pleasanton, CA 94588-8412

Subject: Review of Feasibility Study for Fuel Leak Case No. RO0000194 and Geotracker Global ID T0600101267, Shell#13-5785, 5251 Hopyard Road, Pleasanton, CA 94566

Dear Mr. Brown and Mr. Cox:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recent document entitled, "*Second Quarter 21010 Quarterly Magnesium Sulfate Feasibility Study Report, Shell Branded Service Station, 5251 Hopyard Road, Pleasanton, California*," dated August 11, 2010. The Report, which was prepared on Shell's behalf by Delta Environmental Consultants, Inc., presents results from monitoring of three applications of magnesium sulfate to existing monitoring wells. The Report also recommends one additional magnesium sulfate application event using a pump to be conducted once sulfate concentrations decrease below 1,000 milligrams per liter in the application wells. Monitoring samples would be collected during the two months following the application.

We have no objection to implementing an additional application event as proposed. We request that you perform the proposed work and present results and recommendations from the feasibility study in the reports described below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **November 15, 2010 or February 15, 2011 (contingent upon concentration of MgSO4 in application wells)** – Quarterly Feasibility Study and Monitoring Report

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (*Sent via E-mail to: dstefani@lpfire.org*)

Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (*Sent via E-mail to: cdizon@zone7water.com*)

Suzanne McClurkin-Nelson, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138 (*Sent via E-mail to: SMcClurkin-Nelson@deltaenv.com*)

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH
Geotracker, File

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: July 8, 2010
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

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         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Teena Le Khan.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

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   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

DECEMBER 11, 2009 MAGNESIUM SULFATE FEASIBILITY STUDY AND WORK PLAN

December 11, 2009
Delta Project: SCA5251H1A
SAP #: 135785

Mr. Jerry Wickham, PG, CHG
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6540

DELTA

Re: Magnesium Sulfate Feasibility Study and Work Plan
Shell Branded Service Station
5251 Hopyard Road
Pleasanton, California

Dear Mr. Wickham:

Delta Consultants (Delta) has prepared this *Magnesium Sulfate Feasibility Study Work Plan* to (1) review and summarize historic remedial efforts and effectiveness at the site, (2) evaluate historic data for compounds of concern including total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and fuel oxygenates, (3) determine the feasibility of enhanced biodegradation and chemical degradation of TPH-g and BTEX compounds at the site through the introduction of magnesium sulfate ($MgSO_4$), and (4) establish a sampling and field monitoring plan following $MgSO_4$ application events.

Based on a review of current groundwater parameters, Delta proposes a feasibility study utilizing $MgSO_4$ enhancement for site remediation. This pilot study is designed to determine the optimal $MgSO_4$ infiltration volumes, solution concentrations and the application and monitoring frequencies that will be used in site remediation. Delta is providing this report to the Alameda County Health Care Services Agency and to the Zone 7 Water Agency for their review and approval of this work plan and the proposed monitoring scope and schedule.

a member of: Inogen Environmental Alliance

312 Piercy Road San Jose, California 95138 USA
Phone +1 408.224.4724 / USA Toll Free 800.477.7411
Fax +1 408.225.8506 www.deltaenv.com

BACKGROUND

Site Description

The site is an active Shell-branded service station located on the southeast corner of Owens Drive and Hopyard Road in Pleasanton, California (Figure 1). The site is surrounded primarily by commercial properties. The station has four 10,000-gallon gasoline underground storage tanks (USTs), four fuel dispenser islands under a single canopy, a carwash, and a food mart building. Figure 2 depicts recent groundwater elevation contours based on monitoring data collected during the July 2009 sampling event.

Hydrogeologic Setting

The site is located in the western portion of the Livermore Valley Groundwater Basin where surficial deposits consist primarily of clay. Based on soil borings and cone penetration test (CPT) borings, the site is predominantly underlain by clay and silt with interbedded sand layers to depths of greater than 80 feet below ground surface (bgs). Sand, cemented sand, and silty sand were encountered in boring CPT-1 from 52 feet bgs to the total depth explored of 60 feet bgs and in boring CPT-2 from 36 to 43 feet bgs. Historic boring logs and monitoring wells are included as Attachment A; we were unable to obtain boring logs for wells S-2 through S-5.

The most recent monitoring and sampling event was conducted at the site on July 6, 2009. Groundwater levels ranged from 7.83 feet to 9.18 feet bgs; the groundwater flow direction was variable, but the site historically has had a gradient which varies between the north and west. The historical groundwater elevation and analytical data tables are provided as Attachment B.

Site Investigation Summary

During an initial site investigation in December 1988, one groundwater monitoring well (S-1) and three vadose zone wells (V-1 through V-3) were installed. In May 1989, four additional groundwater monitoring wells were installed (S-2 through S-5). In October and November of 1989, three offsite monitoring wells were installed (S-6 through S-8). In August 2005 CPT Borings were completed to collect groundwater from the 40 foot and 80 foot groundwater zones. One additional offsite groundwater monitoring well (S-9) was installed in November 2006 to monitor shallow groundwater east of the site. In June 2009, three additional groundwater monitoring wells were installed in an effort to complete delineation of the dissolved-phase plume, two onsite (S-10 and S-12) and one offsite (S-11).

Groundwater has been monitored on a quarterly schedule since January 1991; approval to reduce monitoring to a semiannual schedule was granted in July 2009.

Petroleum Hydrocarbon Distribution in Soil and Groundwater

The dissolved-phase petroleum hydrocarbon plume appears to be located primarily beneath the central portion of the site; the primary compounds of concern at the site are TPH-g, benzene, and fuel oxygenates methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA). The majority of impacts to soil were excavated from beneath the dispensers in 2004 during piping and dispenser upgrades. Confirmation samples collected after the excavation reported the highest concentration of remaining soil impacts at 7 feet bgs with a concentration of 5.6 milligrams per kilogram (mg/kg) TPH-g and 0.88 mg/kg benzene.

Based on the most recent groundwater monitoring data, groundwater impacts are located primarily in the vicinity of the former UST complex, the current UST complex, and the product dispensers. The most recent monitoring event reported significant concentrations of TPH-g in wells EW-1, S-1, and S-3 at

concentrations of 17,000 micrograms per liter (µg/L), 5,800 µg/L, and 2,300 µg/L, respectively. Benzene was reported at concentrations of 500 µg/L, 25 µg/L and 18 µg/L in wells S-3, S-1, and EW-1, respectively. MTBE was reported at concentrations of 59 µg/L, 37 µg/L, 22 µg/L and 21 µg/L, respectively, in wells S-2, S-12, S-1 and S-3, and TBA was reported in wells S-10, S-1, and S-5 at concentrations of 5,100 µg/L, 180 µg/L, and 11 µg/L, respectively.

Wells S-4 and S-12 delineate the general upgradient extent of the impacted groundwater; offsite wells S-7 and S-8 delineate the general downgradient extent of impacted groundwater to the west and north, and offsite wells S-6 and S-11 define the crossgradient extent of impacts to groundwater. Current TPH-g, benzene, MTBE and TBA concentrations are detailed on Figure 3, and historic groundwater concentrations are included as Attachment B.

Sensitive Receptors

A review of the sensitive receptor survey data generated from Department of Water records identified no municipal wells within a 1-mile radius of the site. The nearest surface water body is approximately 1,133 feet northeast of the site and Hewlett Canal is located approximately 1,156 feet east of the site. Based on utility survey results, utilities in the site vicinity are not expected to affect groundwater flow or to provide preferential groundwater migration pathways.

REMEDIATION ASSESSMENT

Historic Remediation Summary

In September 2004, product dispensers and product lines were removed to facilitate environmental sampling. A product line was ruptured during excavation of the pea gravel; free product was observed locally within the pea gravel area. Soils were sample beneath the dispenser and in the product trenching and over-excavation was performed along the trench, screening soils with a photoionization detector (PID). The total depth removed varied from 4 feet to 10 feet bgs. A total of approximately 75 cubic yards of petroleum hydrocarbon-impacted soil were removed from the piping trench with observed free product. Groundwater was extracted from the UST area during excavation activities, with a total volume of 33,749 gallons removed. An extraction well (EW-1) was installed in March 2006 for the purpose of batch extractions, but has never been utilized.

Sulfate in the Hydrocarbon Biodegradation Process

Recent case studies show that in anaerobic conditions, microbes utilize sulfate as a terminal electron acceptor in the process of hydrocarbon biodegradation in groundwater. Although other terminal-electron accepting processes (TEAPs) may occur simultaneously during hydrocarbon degradation (with the utilization of nitrite/nitrate, manganese, iron, and oxygen), data suggests that sulfate reduction may be the most important TEAP in the active reduction of hydrocarbons (Dale R. Van Stempvoort, James Armstrong, and Bernhard Mayer, 2007).

Where dissolved BTEX compound plumes show significantly depleted concentrations of sulfate, typically less than 10 milligrams per liter (mg/L), within the plume core, as well as slightly depleted sulfate on the plume fringe and an elevated sulfate concentration consistent with background concentrations in uncontaminated areas just beyond the plume edge, suggest that anaerobic sulfate reduction is occurring (Lyle Bruce, Jim Cuthbertson, Arati Kolhatkar, J. Scott Ziegler, and Brent Graves, 2007).

A 2001 study conducted by Dale R. Van Stempvoort, et al., concluded that the periodic replenishment of sulfate, resulting from the infiltration of snowmelt carrying dissolved sulfate from soils through the vadose zone and into the aquifer, played a key role in the biodegradation of petroleum hydrocarbons.

Site Sulfate and Iron Conditions

The 2008 City of Pleasanton Water Quality Report indicates that local groundwater has an average sulfate concentration ranging from 32 to 111 mg/L with and average concentration of 54 mg/L. Groundwater samples collected at the site from wells S-2, S-3, S-10, and EW-1 on October 30, 2009 reported sulfate concentrations ranging from 3.1 mg/L to 540 mg/L, with the lowest concentrations at the core of the plume (EW-1) and the highest concentrations in a perimeter well (S-2). The plume has generally remained centered around well EW-1, with well S-3 presumed to be on the inner fringe of the source area, and wells S-10 and S-2 are on the outer edges of the plume. Groundwater data are summarized in Table 1 and the certified analytical report is included as Attachment C. A graph showing the correlation at each well of TPH-g and sulfate concentrations is provided on Graph 1.

Under anaerobic conditions, insoluble iron (ferric iron—Fe3+) can be reduced to its more soluble form, ferrous iron (Fe2+). Conversely, through oxidation ferrous iron is converted to ferric iron. The data for ferrous iron at the site appears to follow an inverse relationship to the sulfate concentrations—ferrous iron was detected in the plume core (EW-1) where sulfate levels are low; while ferrous iron was not detected where sulfate levels are high in well S-2 which is located outside of the TPH-g and BTEX plume.

The anaerobic sulfate reduction of hydrocarbons uses ferric (insoluble) iron as a co-metabolite. In this TEAP, as sulfate is utilized and depleted during the degradation of hydrocarbons, you typically see an increase in the concentrations of ferrous (soluble iron) in source areas. The concentration of ferrous iron in the center of the plume (EW-1) was 2.1 mg/L (2,100 µg/L) during this sampling event. This data point strongly suggests sulfate is being consumed in the process of anaerobic hydrocarbon biodegradation and the current low sulfate concentrations may be a limiting factor for continued bioremediation of the plume. Delta proposes that biodegradation may be accelerated by replenishing sulfate where depleted at the core of the plume (wells EW-1 and S-3).

WORK PLAN FOR PROPOSED BIODEGRADATION ENHANCEMENT

Delta has recently been awarded a patent for the application of sulfate for the purposes of accelerating the cleanup of soil and groundwater. With *in-situ* heterotrophic microbes and iron (ferric iron), the introduction of magnesium sulfate solution ($MgSO_4$ - dissolved Epsom salt), into hydrocarbon-impacted groundwater yields the following reaction:

Petroleum Hydrocarbon + $MgSO_4$ + dissolved Iron → Iron Sulfide+H2O+MgCO3+ CO2

Data show that conditions are favorable at the site for sulfate enrichment for the purpose of hydrocarbon remediation. Delta proposes a series of $MgSO_4$ applications and sampling for sulfate and ferrous iron to monitor the rate of breakdown of hydrocarbons in groundwater.

Prior to the first proposed magnesium sulfate introduction, wells EW-1, S-3, and S-2 will be analyzed for ferrous iron and sulfate, in addition to TPH-g, BTEX compounds, and fuel oxygenates. These three wells will be used as the source (EW-1 and S-3) and upgradient (S-2) data collection points. This information will be used to determine the remedial success of the $MgSO_4$ infiltration events, and will be used to make a determination for future infiltration events. Following the addition of magnesium sulfate, ferrous iron and sulfate will be added to the quarterly analytical suite for wells EW-1, S-3 and S-2.

For each infiltration event, Delta will introduce a pre-mixed solution of Epsom salt and tap water into wells EW-1 and S-3 by gravity feed. Well EW-1 is screened approximately between 10 and 20 feet bgs, providing a large vertical surface area for $MgSO_4$ infiltration into the contaminated area. The volume and concentration of the infiltration solution are determined by several factors: site layout conditions, contaminant concentrations, soil types encountered in the vicinity of EW-1 and S-3, estimated pore space volume, and a target source area 30 feet wide by 30 feet long by 10 feet thick. The goal of these infiltration events is to raise the starting sulfate concentration in groundwater to between 3,000 and 5,000 mg/L. It is estimated that the optimal initial application into each well is approximately 200 pounds of $MgSO_4$ with the appropriate amount of water required to be determined during application.

A baseline groundwater sample from wells EW-1 and S-3 will be collected prior to the first infiltration application of $MgSO_4$. The samples will be analyzed for pH, TPH-g, BTEX compounds, MTBE, sulfate, ferrous iron and ferric iron. The groundwater in wells EW-1 and S-3 will be sampled again 4 hours after the initial application of $MgSO_4$ (for sulfate only), and once every two weeks for the following month. During the second and third months, groundwater samples will be collected once a month. The samples will be analyzed for pH, TPH-g, BTEX compounds, MTBE, sulfate and ferrous iron.

Delta will perform an additional infiltration event when the concentration of sulfate in well EW-1 decreases to approximately 1,000 mg/L. These continued applications, anticipated to be successively smaller in concentration, are necessary to maintain elevated concentrations of sulfate in order to sustain the accumulated anaerobic heterotrophic biomass. The mass of Epson salt applied during the next application will be determined from the current TPH-g concentration at the time. Samples will be collected on the same schedule that followed the previous $MgSO_4$ application event. Based on the observed starting concentrations and typical sulfate degradation rates, an injection every two to three months is expected. Delta recommends continuing these infiltration events for two to four quarters to evaluate the remedial strategy and effectiveness of the application procedure.

REPORTING

Delta will compile a quarterly report summarizing the remedial progress at the site, including a detailed assessment of the $MgSO_4$ applications, site contaminant reductions, and recommendations for future applications. In accordance with State of California requirements for the GeoTracker database, the report, including maps, graphs, and all analytical data will be uploaded to the GeoTracker system and to the Alameda county FTP website.

LIMITATIONS

The contents of this document represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This document is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined here will be performed. This document is intended only for the use of Delta's Client and anyone else specifically listed on this document. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

If you have any questions regarding this work plan, or need additional information about the Site, please do not hesitate to contact Suzanne McClurkin- Nelson at (408) 826-1875.

Sincerely,

DELTA CONSULTANTS

Cora Olson
Staff Engineer

Suzanne McClurkin- Nelson
Senior Project Manager

Doug Umland, P.G.
Senior Geologist

cc: Denis Brown, Shell Oil Products US, Carson
Carl Cox, C and J Cox Corporation, Pleasanton
Colleen Winey, Zone 7 Water Agency, Livermore
Danielle Stefani, Livermore-Pleasanton Fire Department, Pleasanton

ATTACHMENTS

Figure 1	Site Location Map
Figure 2	Groundwater Elevation Contour Map – 7/6/2009
Figure 3	Groundwater Hydrocarbon Distribution Map – 7/6/2009
Table 1	$MgS0_4$ Application Feasibility Groundwater Testing Data
Graph 1	TPH-g vs. Sulfate Concentrations
Attachment A:	Historic Boring Logs
Attachment C:	Historic Well Concentrations
Attachment C:	Certified Analytical Report with Chain-of-Custody Documentation

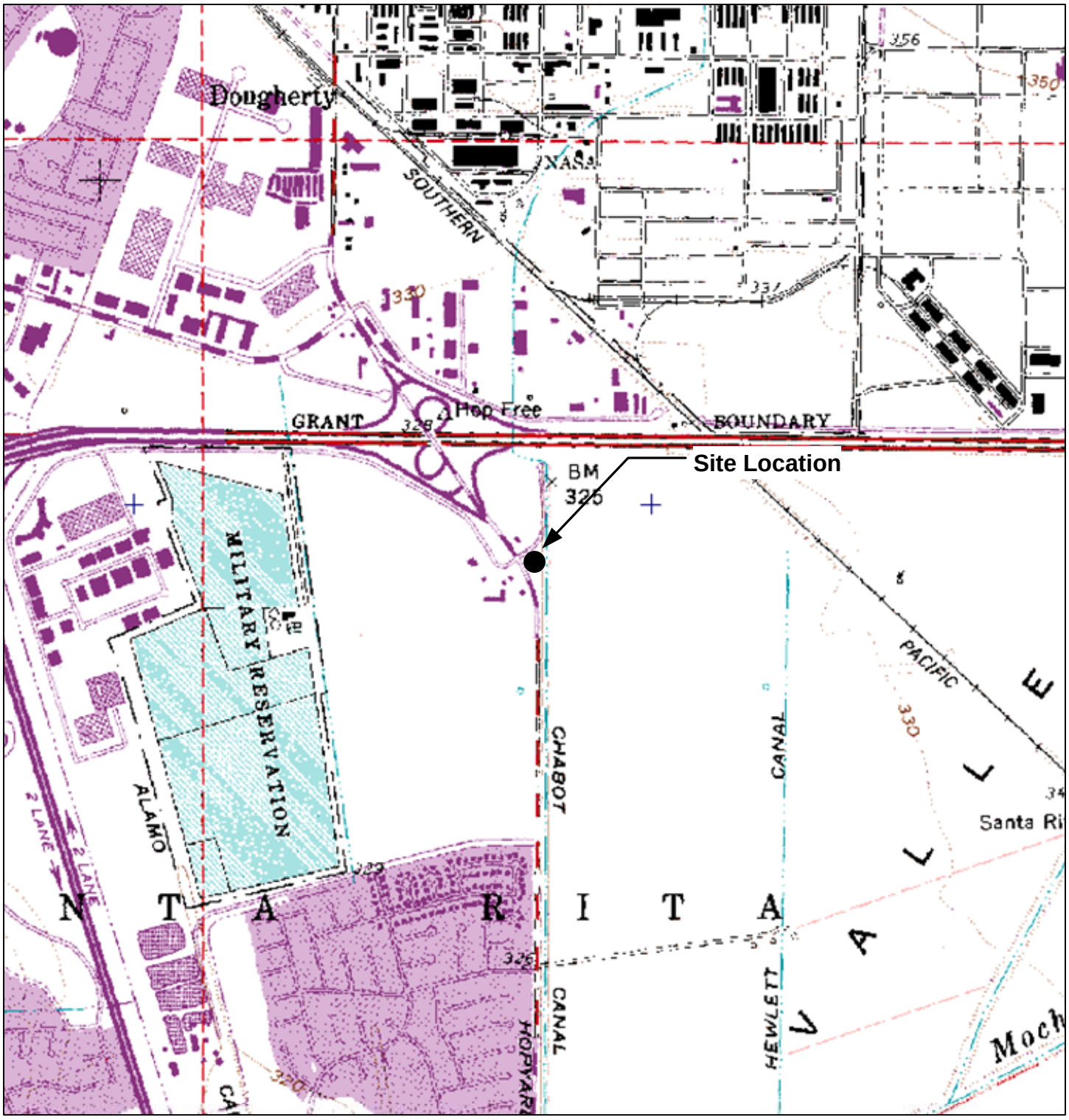
REFERENCES CITED

City of Pleasanton, 2008, Annual Water Quality Report.

Cunningham, J. A., et al., 2001, Enhanced In Situ Bioremediation of BTEX Contaminated Groundwater by Combined Injection of Nitrate and Sulfate, *Environ. Sci.Technol.*, 2001, 35, 1663-1670.

Lyle Bruce, Jim Cuthbertson, Arati Kolhatkar, J. Scott Ziegler, and Brent Graves Substantially Increasing the Hydrocarbon Degradation Rate at a Central Indiana Site., 2007

Van Stempvoort Dale R., et al., 2001, Seasonal Recharge and Replenishment of Sulfate Associated with Biodegradation of a Hydrocarbon Plume, Ground Water Monitoring & Remediation 27, no. 4: 110–121



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

0 1,300 2,600
Scale, Feet

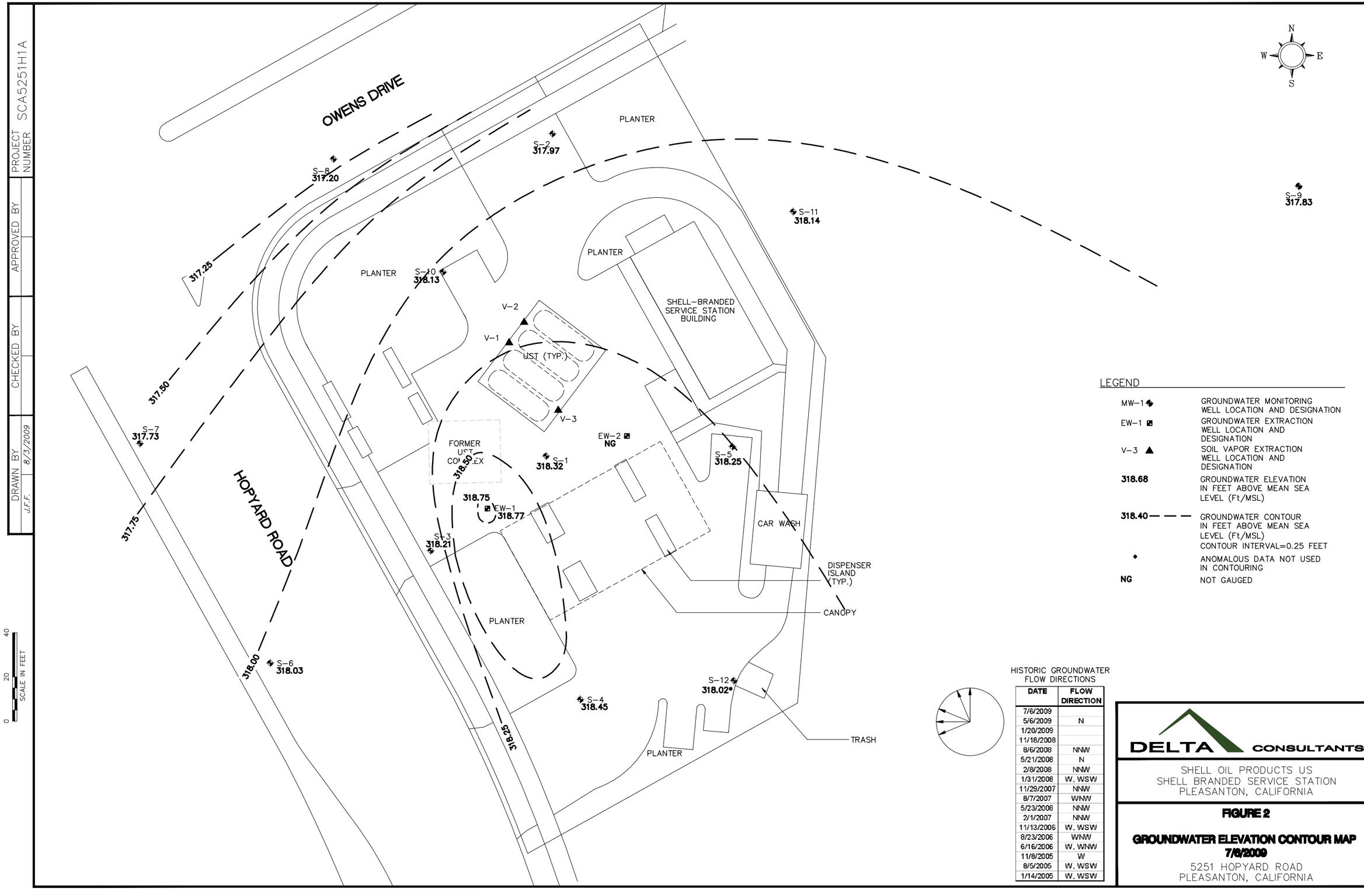
FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
5251 Hopyard Road
Pleasanton, California

PROJECT NO. SCA5251H1A	DRAWN BY V. F. 3/31/05
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY

DELTA CONSULTANTS

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
SCA5251H1A			J.F.F. 8/3/2009



LEGEND

MW–1 ◆	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
EW–1 ■	GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
V–3 ▲	SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
318.68	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
318.40 — — —	GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=0.25 FEET
*	ANOMALOUS DATA NOT USED IN CONTOURING
NG	NOT GAUGED

HISTORIC GROUNDWATER FLOW DIRECTIONS

DATE	FLOW DIRECTION
7/6/2009	
5/6/2009	N
1/20/2009	
11/18/2008	
8/6/2008	NNW
5/21/2008	N
2/8/2008	NNW
1/31/2008	W, WSW
11/29/2007	NNW
8/7/2007	WNW
5/23/2008	NNW
2/1/2007	NNW
11/13/2006	W, WSW
8/23/2006	WNW
6/16/2006	W, WNW
11/8/2005	W
8/5/2005	W, WSW
1/14/2005	W, WSW

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
SHELL BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP 7/6/2009

5251 HOPYARD ROAD
PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA5251H1A

APPROVED BY

CHECKED BY

DRAWN BY J.F.F. 8/3/2009

OWENS DRIVE

HOPYARD ROAD

PLANTER

PLANTER

PLANTER

PLANTER

PLANTER

SHELL-BRANDED SERVICE STATION BUILDING

UST (TYP.)

FORMER UST COMPLEX

CAR WASH

DISPENSER ISLAND (TYP.)

CANOPY

TRASH

S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12

EW-1 EW-2 NS

V-1 V-2 V-3

N W E S

0 20 40 SCALE IN FEET

S-10				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**340**	ND<1.0	ND<2.0	**5,100**

S-2				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**110**	ND<0.50	**59**	ND<10

S-9				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	ND<50	ND<0.50	ND<1.0	ND<10

S-8				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	ND<50	ND<0.50	ND<1.0	ND<10

S-11				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	ND<50	ND<0.50	ND<1.0	ND<10

S-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**5,800**	**25**	**22**	**180**

S-7				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**58**	ND<0.50	**4.3**	ND<10

S-5				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**62**	ND<0.50	**2.5**	**11**

EW-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**17,000**	**18**	ND<10	ND<100

S-3				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**2,300**	**500**	**21**	ND<50

S-12				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	**83**	ND<0.50	**37**	ND<10

S-6				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	ND<50	ND<0.50	ND<1.0	ND<10

S-4				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
7/6/09	ND<50	ND<0.50	ND<1.0	ND<10

LEGEND

MW-1 ◆	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
EW-1 ■	GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
V-3 ▲	SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE	METHYL TERT-BUTYL ETHER
TBA	TERT-BUTYL ALCOHOL
µg/L	MICROGRAMS PER LITER
ND<	NOT DETECTED ABOVE LIMIT NOTED
NS	NOT SAMPLED

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
SHELL BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 3
GROUNDWATER HYDROCARBON DISTRIBUTION MAP
7/6/2009
5251 HOPYARD ROAD
PLEASANTON, CALIFORNIA

TABLE 1
$MgSO_4$ APPLICATION FEASIBILITY GROUNDWATER TESTING DATA
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

Well ID	Date Sampled	TPH-g (ug/L)	BTEX Compounds				Fuel Oxygenates					Sulfate (mg/L)	Ferrous Iron (mg/L)
			B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)		
S-2	10/30/2009	<50	<0.50	<1.0	<1.0	<1.0	33	<2.0	<2.0	<2.0	10	540	<0.10
S-10	10/30/2009	<50	<0.50	<1.0	<1.0	<1.0	1.8	<2.0	<2.0	<2.0	860	170	<0.10
S-3	10/30/2009	2300	390	12	15	24	14	<10	<10	<10	<50	35	<0.10
EW-1	10/30/2009	8400	14	21	360	84	<2.0	<4.0	<4.0	<4.0	<20	3.1	2.1

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8015
B = Benzene, analyzed by EPA Method 8260B
T = Toluene, analyzed by EPA Method 8260B
E = Ethylbenzene, analyzed by EPA Method 8260B
X = Total xylenes, analyzed by EPA Method 8260B
MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260B
DIPE = Diisopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
Sulfate - Analyzed EPA Method 300.0
Ferrous Iron - Iron (II) analyzed by SM 3500-FeB
µg/L = Micrograms per liter, equivalent to parts per billion
mg/L = Milligrams per liter, equivalent to parts per million
< = Denotes no reported concentration above shown detection limit

APPENDIX C

FIELD DATA SHEETS

DELTA

FIELD WORK LOG

CLIENT: Shell JOB NO. SCAS251H1D

PERSONNEL: Matt Lambert DATE: 8/2/10

TIME	NOTES/OBSERVATIONS
1:00	Arrived on site.
	↳ HASP meeting, reviewed JSA, sign JSF.
1:15	Began S-3 sample.
1:45	Finished S-3 sample
	↳ Began EW-1 sample
2:15	Finished EW-1 sample
	left site

SIGNATURE: DATE: 8/2/10 PAGE 1 OF 1

MgS04 Application and Sampling Schedule
5251 Hopyard Road, Pleasanton, CA

Date	Samples	Analysis	Notes
4/8/2010	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (125ml or 250 ml Poly NP) ferrous iron - **use field kit** ferric iron (250 ml poly, HNO3)	Baseline samples collected prior to initial MgS04 Application
4/8/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	Samples taken 4 hours after MgS04 application
4/21/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	
5/11/2010	EW-1 (A) S-3 (A)	pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron (see sample containers above)	*1 month after application*
5/27-28/2010	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (250 ml Poly NP) ferrous iron - **use field kit** ferric iron (250 ml poly, HNO3)	Baseline samples collected prior to MgS04 Application (Matt to pick up EOS product 5/26) (Cora@Application Event)
6/9/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	2 weeks after application
6/22/2010	EW-1 (A) S-3 (A)	pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron (see sample containers above)	1 month after application
7/15-16/10	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (250 ml Poly NP) ferrous iron - use field kit ferric iron (250 ml poly, HNO3)	Collect gw samples on 7/14 from all wells; apply MgS04 product 7/15
7/30/2010	***EW-1 (A) S-3 (A)***	***Sulfate Only (125ml or 250 ml Poly NP)***	***2 weeks after application***
8/17/2010	***EW-1 (A) S-3 (A)***	***pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron***	***1 month after application***
9/14/2010	***EW-1 (A) S-3 (A)***	***pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron***	***Monthly; schedule next app when sulfate at EW-1 drops to ~1,000 mg/L***

A = Application well

O = Observation well

Ferrous iron can be collected with 250 ml amber (NP) but has a 24-hour hold time; prefer field kit, write reading on COC

Note: Coordinate sampling with Blaine Tech during semiannual monitoring events in August and February, no duplicates

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 5251 HOPYARD RD., PLEASANTON, CA Date 8/12/10

Job Number 100812-IW1 Technician IW Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	—	—	—	—	—	COVERED BY ASPHALT.			
S-2	—	—	—	—		COVERED BY ASPHALT.			
S-3	X							X	NO TAG
S-4	—	—	—	—	—	COVERED BY ASPHALT.			
S-5	X							X	NO TAG
S-6	X							X	NO TAG
S-7	X							X	NO TAG
S-8	X							X	CHRISTY BOX. NO TAG.
S-9	X							X	NO TAG
S-10	X							X	NO TAG
S-11	X							X	NO TAG
S-12	—	—	—	—	—	COVERED BY ASPHALT.			
EW-1		X						X	1 OF 2 15/16" BOLTS MISSING.

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

WELL GAUGING DATA

Project # 100812 - EW1 Date 8/12/10 Client SHELL

Site 5251 HOPYARD RD., PLEASANTON, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
S-1	—	—	—	COVERED BY ASPHALT			—	—		
S-2	—	—	—	COVERED BY ASPHALT			—	—		
S-3	0745	3					8.46	24.10		
S-4	—	—	—	COVERED BY ASPHALT			—	—		
S-5	0813	3					9.22	24.12		
S-6	0910	3					7.84	25.55		
S-7	0916	3					7.98	25.05		
S-8	1008	3					7.14	24.55		
S-9	0836	2					7.96	19.62		
S-10	0736	4					8.04	19.15		
S-11	0822	4					8.17	19.82		
S-12	—	—	—	COVERED BY ASPHALT			—	—		
EW-1	0756	4					8.03	19.70		

SHEL_ WELL MONITORING DAT_ SHEET

BTS #: 100812-IW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: IW	Date: 8/12/10
Well I.D.: S-1	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

COVERED BY ASPHALT

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
* COVERED BY ASPHALT.						
	POST PURGE =					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 8/12/10 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEL[illegible] WELL MONITORING DAT[illegible] SHEET

BTS #: 100812-IW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: IW	Date: 8/12/10
Well I.D.: S-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

COVERED BY ASPHALT

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
* COVERED	BY	ASPHALT.				
	POST PURGE =					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 8/12/10 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-IW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: IW	Date: 8/12/10
Well I.D.: S-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 24.10	Depth to Water (DTW): 8.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.59	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

5.8 (Gals.) X	3	=	17.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1216	68.5	6.89	6235	63	5.8	ODOR
1220	69.1	6.86	6294	468	11.6	"
1221	WELL DEWATERED @ 12.0		GALLONS		~~17.4~~ 12.0 IW	" DTW = 20.90
1300	68.6	7.07	6535	42	GRAB	ODOR
	POST PURGE = 7.07				Fe^{2+} = 0.6 mg/L	

Did well dewater? (Yes) No Gallons actually evacuated: 12.0

Sampling Date: 8/12/10 Sampling Time: 1300 Depth to Water: WAITED 10.88

Sample I.D.: S-3 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-EW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: EW	Date: 8/12/10
Well I.D.: S-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 24.12	Depth to Water (DTW): 9.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.20	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ___

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ___

5.6 (Gals.) X 3 = 16.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1139	66.4	6.83	1442	34	5.6	
1143	65.4	6.75	1481	11	11.2	
1147	65.2	6.78	1479	15	16.8	DTW = 11.04
	POST PURGE = 6.81					

Did well dewater? Yes (No) Gallons actually evacuated: 16.8

Sampling Date: 8/12/10 Sampling Time: 1200 Depth to Water: 11.04

Sample I.D.: S-5 Laboratory: (CalScience) Columbia Other ___

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-IW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: IW	Date: 8/12/10
Well I.D.: S-7	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 25.05	Depth to Water (DTW): 7.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.39	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

6.4 (Gals.) X	3	=	19.2 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0928	67.5	7.38	8236	69	6.5	
0931	68.4	7.12	8295	48	13.0	
0934	68.6	7.10	8310	32	19.5	
	POST PURGE	= 7.08				

Did well dewater? Yes (No) Gallons actually evacuated: 19.5

Sampling Date: 8/12/10 Sampling Time: 0940 Depth to Water: 13.86 TRAFFIC

Sample I.D.: S-7 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-EW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: EW	Date: 8/12/10
Well I.D.: S-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.15	Depth to Water (DTW): 8.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.27	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

7.3 (Gals.) X 3 = 21.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1104	69.4	7.47	2284	53	8.0	
1109	68.8	7.26	2283	68	15.0	
1115	68.9	7.28	2276	56	22.0	DTW = 15.68
	POST PURGE	= 7.44			Fe^{2+} = 0.0	mg/L

Did well dewater? Yes (No) Gallons actually evacuated: 22.0

Sampling Date: 8/12/10 Sampling Time: 1125 Depth to Water: 10.20

Sample I.D.: S-10 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 100812-EW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: EW	Date: 8/12/10
Well I.D.: S-11	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.82	Depth to Water (DTW): 8.17
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.50	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ____

7.6 (Gals.) X	3 =	22.8 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1026	68.5	7.30	6736	37	8.0	
1032	68.4	7.26	6665	42	15.0	
1035	68.2	7.24	6656	50	23.0	DTW = 17.10
	POST PURGE	= 7.28				

Did well dewater? Yes (No) Gallons actually evacuated: 23.0

Sampling Date: 8/12/10 Sampling Time: 1040 Depth to Water: ~~17.10~~ 10.28 EW

Sample I.D.: S-11 Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-EW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: EW	Date: 8/12/10
Well I.D.: S-12	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

COVERED BY ASPHALT.

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
* COVERED BY ASPHALT.						
	POST PURGE =					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 8/12/10 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100812-EW1	Site: 5251 HOPYARD RD., PLEASANTON, CA
Sampler: EW	Date: 8/12/10
Well I.D.: EW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.70	Depth to Water (DTW): 8.03
Depth to Free Product: + 1W	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.37	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:

7.6 (Gals.) X 3 = 22.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1228	70.0	6.98	18,370	213	7.6	ODOR
1234	71.0	6.97	17,500	50	15.2	"
1240	71.2	6.96	17,460	36	22.8	" DTW = 17.09
	POST PURGE = 7.13				Fe^{2+} = 1.2	mg/L

Did well dewater? Yes (No) Gallons actually evacuated: 22.8

Sampling Date: 8/12/10 Sampling Time: 1310 Depth to Water: WATER 9.83

Sample I.D.: EW-1 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

DELTA

FIELD WORK LOG

CLIENT: Shell JOB NO. SCAS251H1D

PERSONNEL: Matt Lambert DATE: 8/17/10

TIME	NOTES/OBSERVATIONS
10:15	Arrived on site.
	signed JSF, HASP, JSA
10:30	Began sampling S-3
	→ finished
10:55	→ Began sampling EW-1
	finished.
11:15	Left site

SIGNATURE: DATE: 8/17/10 PAGE 1 OF 1

Site: 5251 Hopyard Road

City: Pleasanton, CA

Date 8/17/10

Field Staff Matt Lambert

MgS04 Monitoring

Well	Date	DTW (ft)	pH	Fe+2	Notes (C3 VOAs (HCl), 250ml poly NP, 250 ml Poly HNO_3)
EW-1	8/17		7.71	0.9 mg/L	Time = 11:00
S-3	8/17		7.11	1.0 mg/L	Time = 10:40
~~S-10~~					
~~S-2~~					
~~S-3~~					

MgS04 Application event

Well	Date	Time		EOS Amount (gal)	Notes
		Start	End		
EW-1					
S-3					

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

INCIDENT #:(ENV SERVICES): 9 8 9 9 5 8 4 3

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/17/10

PAGE: 1 of 1

P.O. #:

SAP #: 1 3 5 7 8 5

SAMPLING COMPANY: Delta Consultants	LOG CODE:	SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton	State: CA
GLOBAL ID NO.: T0600101267			
ADDRESS: 312 Piercy Road, San Jose, CA 95138		EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico	PHONE NO.: 408-826-1862
E-MAIL: apico@deltaenv.com	CONSULTANT PROJECT NO.: SCA5251H1D		
PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson		Sampler Name: MATT LAMBERT	LAB USE ONLY
TELEPHONE: 408-826-1875	FAX: 408-225-8506	E-MAIL: SMcClurkin-Nelson@deltaenv.com	

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron (mg/L)	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	EW-1	8/17/10	11:00	Water	3	1		1		5	X	X	X	7.71	X	0.9	X		
	S-3	8/17/10	10:40	Water	3	1		1		5	X	X	X	7.11	X	1.0	X		

Relinquished by: (Signature)	Received by: (Signature) GSO	Date: 8/17/10	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

MgS04 Application and Sampling Schedule
5251 Hopyard Road, Pleasanton, CA

Date	Samples	Analysis	Notes
4/8/2010	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (125ml or 250 ml Poly NP) ferrous iron - **use field kit** ferric iron (250 ml poly, HNO3)	Baseline samples collected prior to initial MgS04 Application
4/8/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	Samples taken 4 hours after MgS04 application
4/21/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	
5/11/2010	EW-1 (A) S-3 (A)	pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron (see sample containers above)	*1 month after application*
5/27-28/2010	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (250 ml Poly NP) ferrous iron - **use field kit** ferric iron (250 ml poly, HNO3)	Baseline samples collected prior to MgS04 Application (Matt to pick up EOS product 5/26) (Cora@Application Event)
6/9/2010	EW-1 (A) S-3 (A)	Sulfate Only (125ml or 250 ml Poly NP)	2 weeks after application
6/22/2010	EW-1 (A) S-3 (A)	pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron (see sample containers above)	1 month after application
7/15-16/10	EW-1 (A) S-3 (A) S-1 (O) S-2 (O) S-10 (O)	pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (250 ml Poly NP) ferrous iron - use field kit ferric iron (250 ml poly, HNO3)	Collect gw samples on 7/14 from all wells; apply MgS04 product 7/15
7/30/2010	***EW-1 (A) S-3 (A)***	***Sulfate Only (125ml or 250 ml Poly NP)***	***2 weeks after application***
8/17/2010	***EW-1 (A) S-3 (A)***	***pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron***	***1 month after application***
9/14/2010	***EW-1 (A) S-3 (A)***	***pH, TPH-g, BTEX, MTBE, sulfate, ferrous iron, ferric iron***	***Monthly; schedule next app when sulfate at EW-1 drops to ~1,000 mg/L***

A = Application well

O = Observation well

Ferrous iron can be collected with 250 ml amber (NP) but has a 24-hour hold time; prefer field kit, write reading on COC

Note: Coordinate sampling with Blaine Tech during semiannual monitoring events in August and February, no duplicates

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 5251 HOWARD RD. Date 8/18/10

Job Number 100818-JP2 Technician J. PARKER Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	X	X							NO TAG
S-2	X	X							NO TAG
S-3	X	X							NO TAG
S-4	X	X							NO TAG
S-5	X	X							NO TAG
S-9	X	X							NO TAG
S-10	X	X							NO TAG
S-11	X	X							NO TAG
S-12	X	X							NO TAG
EW-1		X							1/2 BOLTS MISSING

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

WELL GAUGING DATA

Project # 100818-JP2 Date 8/18/10 Client J. PARKER

Site 5251 HOPYARD RD.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
S-1	1206	3	-	-	-	-	7.92	26.23		
S-2	1220	3	-	-	-	-	8.40	24.10		
S-3	1202	3	-	-	-	-	8.43	24.00		
S-4	1154	3	-	-	-	-	8.50	24.15		
S-5	1150	3	-	-	-	-	9.12	24.04		
S-9	1232	2	-	-	-	-	7.86	19.50		
S-10	1212	3	-	-	-	-	8.04	19.15		
S-11	1226	4	-	-	-	-	7.91	19.80		
S-12	1159	4	-	-	-	-	8.33	20.20		
EW-1	1216	4	-	-	-	-	8.09	19.67		

SHEET WELL MONITORING DATA SHEET

BTS #: 100818-JP2	Site: 5251 HOPYARD RD.
Sampler: JP	Date: 8/18/10
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 26.23	Depth to Water (DTW): 7.92
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.58	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

6.8 (Gals.) X	3	=	20.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1404	68.8	7.85	1306	201	6.8	ODOR
1408	69.6	7.45	1286	229	13.6	"
1408	69.4	7.49	1261	122	20.4	"
POST		8.05				Fe^{2+}: 0.4 mg/L

Did well dewater? Yes (No) Gallons actually evacuated: 20.4

Sampling Date: 8/18/10 Sampling Time: 1435 Depth to Water: 11.55

Sample I.D.: S-1 Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 100818-JP2	Site: 5251 HOPYARD RD.
Sampler: JP	Date: 8/18/10
Well I.D.: S-2	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 24.10	Depth to Water (DTW): 8.40
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.54	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

5.8 (Gals.) X 3 = 17.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1313	68.7	8.19	3011	64	5.8	
1315	68.9	7.45	3119	38	11.6	
1317	68.4	7.47	3128	59	17.4	
						Fe^{2+}: 0.0 mg/L
POST		7.51				

Did well dewater? Yes (No) Gallons actually evacuated: 17.4

Sampling Date: 8/18/10 Sampling Time: 1325 Depth to Water: 10.74

Sample I.D.: S-2 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 100818-JP2	Site: 5251 Hopyard Rd.
Sampler: JP	Date: 8/18/10
Well I.D.: S-12	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 20.20	Depth to Water (DTW): 8.33
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.70	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

7.7 (Gals.) X 3 = 23.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1251	69.6	8.03	1712	114	7.7	
1253	69.0	7.77	1781	198	15.4	
1255	68.7	7.74	1804	181	23.1	
POST:		7.67				

Did well dewater? Yes (No) Gallons actually evacuated: 23.1

Sampling Date: 8/18/10 Sampling Time: 1305 Depth to Water: 10.66

Sample I.D.: S-12 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

DELTA

FIELD WORK LOG

CLIENT: SHELL JOB NO. SCAS25HD

PERSONNEL: Matt Lambert DATE: 9/9/10

TIME	NOTES/OBSERVATIONS
10:20	Arrived on site
	↳ HASP tailgate, signed JCF
10:35	Began pumping well S-3
10:40	Well connection pops off @ 10psi.
	reconnect. pops off @ 5 psi.
11:20	Waiting for product level to fall
11:30	Swithed to EW-1
12:10	→ connector popped off @ 10 psi.
12:30	Completed EW-1 application
	↳ began pumping @ S-3
1:00	→ connector popped @ 5 psi.
	well box filled w/ MgSO4 waiting to drain.
2:30	→ connector popped off again, new connector
	config.
3:30	popped off again @ 4psi replaced hose clamp
4:00	Finished S-3 application
	↳ clamp.
4:30	Left site

SIGNATURE: [signature] DATE: 9/9/10 PAGE 1 OF

Site: 5251 Hopyard Road

City: Pleasanton, CA

Date 9/9/10

Field Staff Matt Lambert

MgS04 Monitoring

Well	Date	DTW (ft)	pH	Fe+2	Notes
EW-1					
S-3					
S-1					
S-2					
S-10					

MgS04 Application event

Well	Date	Time		EOS Amount	Notes
		Start	End	(gal)	
EW-1	9/9/10	11:30	12:30	55	1 hr total app time.
S-3	9/9/10	10:30 — 11:30 12:30 — 4:00		55	4.5 hr total app time.

DELTA

FIELD WORK LOG

CLIENT: Shell

JOB NO. SCAS251HD

PERSONNEL: Matt Lambert

DATE: 10/1/10

TIME	NOTES/OBSERVATIONS
2:00pm	Arrived on site, signed HASP signed JSA.
	↳ began g.w sampling.
2:20	EW-1 Sample
2:40	S-3 Sample
3:00	Left site

SIGNATURE: [signature]

DATE: 10/1/10

PAGE 1 OF 1

Site: 5251 Hopyard Road

City: Pleasanton, CA

Date 10/1/10

Field Staff Matt Lambert

MgS04 Monitoring

Well	Date	DTW (ft)	pH	Fe+2	Notes
EW-1	10/1/10	8.55	6.89	6.5	
S-3	10/1/10	8.88	6.68	6.8	
~~S-1~~					
~~S-2~~					
~~S-10~~					

MgS04 Application event

Well	Date	Time		EOS Amount (gal)	Notes
		Start	End		
EW-1					
S-3					

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

INCIDENT # (ENV. SERVICES): 98995845 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 10/1/10

PAGE: 1 of 1

P.O. #:

SAP #: 131578

SAMPLING COMPANY:	Delta Consultants
LOG CODE:	
SITE ADDRESS: Street and City	5251 Hopyard Road; Pleasanton
State	CA
GLOBAL ID NO.:	T0600101267
ADDRESS:	312 Piercy Road, San Jose, CA 95138
EDF DELIVERABLE TO (Name, Company, Office Location):	Angela Pico
PHONE NO.:	408-826-1862
E-MAIL:	apico@deltaenv.com
CONSULTANT PROJECT NO.:	SCA5251H1D
PROJECT CONTACT (Hardcopy or PDF Report to):	Suzanne McClurkin- Nelson
TELEPHONE:	408-826-1875
FAX:	408-225-8506
E-MAIL:	SMcClurkin-Nelson@deltaenv.com
Sampler Name:	MATT LAMBERT
LAB USE ONLY	

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	EW-1	10/1/10	14:20	Water	3	1		1		5	X	X	X		X		X		
	S-3	10/1/10	14:40	Water	3	1		1		5	X	X	X		X		X		

Relinquished by: (Signature)	Received by: (Signature) GSO	Date: 10/1/10	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Site: 5251 Hopyard Road

City: Pleasanton, CA

Date 10/19/10

Field Staff Matt Lambert

MgS04 Monitoring

Well	Date	DTW (ft)	pH	Fe+2	Notes
EW-1	10/19/10	N/A	7.49	4.8	
S-3			7.20	5.6	
S-1			8.00	0.8	
S-2			7.68	0.0	
S-10	↓	↓	8.16	0.0	

☆ 10/29/10 pH TPH-g, BTEX, MTBE (3 VOAs, HCl) sulfate (250 ml Poly NP) ferrous iron - use field kit ferric iron (250 ml poly, HNO3)

MgS04 Application event

Well	Date	Time		EOS Amount	Notes
		Start	End	(gal)	
EW-1					
S-3					

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:

- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

PO #:

INCIDENT # (ENV SERVICES): 98995834

SAP #: 131357

- [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 10/19/10

PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants	LOG CODE:	SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton	State: CA
GLOBAL ID NO.: T0600101267			
ADDRESS: 312 Piercy Road, San Jose, CA 95138		EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico	PHONE NO.: 408-826-1862
E-MAIL: apico@deltaenv.com	CONSULTANT PROJECT NO.: SCA5251H1D		
PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson		Sampler Name: Matt Lambert	LAB USE ONLY
TELEPHONE: 408-826-1875	FAX: 408-225-8506	E-MAIL: SMcClurkin-Nelson@deltaenv.com	

TURNAROUND TIME (CALENDAR DAYS):

- [ ] STANDARD (14 DAY)
- [x] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron mg/L	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	EW-1	10/19/10	1415	Water	3	1		1		5	X	X	X	7.49	X	4.5	X		
	S-3		1350	Water	3	1		1		5	X	X	X	7.20	X	7.5	X		5.6
	S-1		1440	Water	3	1		1		5	X	X	X	8.00	X	0.8	X		
	S-2		1520	Water	3	1		1		5	X	X	X	7.63	X	0.0	X		
	S-10		1500	Water	3	1		1		5	X	X	X	8.16	X	0.0	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 10/19/10	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

APPENDIX D

CERTIFIED ANALYTICAL REPORTS WITH CHAIN-OF-CUSTODY DOCUMENTATION

Calscience
Environmental
Laboratories, Inc.

August 12, 2010

Suzanne McClurkin-Nelson
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 10-08-0086**
Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/3/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	08/03/10
312 Piercy Rd.		Work Order No:	10-08-0086
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-0086-1-A**	**08/02/10 13:50**	**Aqueous**	**IC 7**	**N/A**	**08/03/10 21:02**	**100803L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	2100	40	40		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-08-0086-2-A**	**08/02/10 13:20**	**Aqueous**	**IC 7**	**N/A**	**08/03/10 21:17**	**100803L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	4300	100	100		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,182**	**N/A**	**Aqueous**	**IC 7**	**N/A**	**08/03/10 19:45**	**100803L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.	Date Received: 08/03/10
312 Piercy Rd.	Work Order No: 10-08-0086
San Jose, CA 95138-1401	Preparation: N/A
	Method: EPA 300.0

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EW-1	**Aqueous**	**IC 7**	**N/A**	**08/03/10**	**100803S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-08-0086
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,182	**Aqueous**	**IC 7**	**N/A**	**08/03/10**	**100803L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	102	102	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-08-0086

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [x] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 3

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 8/2/10

PO #:

SAP #: 1 3 5 7 8 5

PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton

State: CA

GLOBAL ID NO.: T0600101267

ADDRESS: 312 Piercy Road, San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): ~~Cora Olson~~ Matt Lambert 8/2

PHONE NO.: 1872 ~~408-826-1877~~ MR 8/2

E-MAIL: Mlambert colson@deltaenv.com MR 8/2

CONSULTANT PROJECT NO.: SCA5261H1D

PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson

Sampler Name: Matt Lambert

LAB USE ONLY: 10-08-0086

TELEPHONE: 408-826-1875

FAX: 408-225-8506

E-MAIL: SMcClurkin-Nelson@deltaenv.com

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	EW-1 8/2/10	13:50	←	Water				1		1				7.65	X	2.6			
2	S-3 8/2/10	13:20	←	Water				1		1				7.01	X	3.6			

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[signature]			
	GSO	Wbath CET	8/3/10	1030

05/2/06 Revision

0086

DATE 8/8/17

COMPANY [redacted]

ADDRESS [redacted]

ADDRESS

STE/ ROOM

CITY

ZIP CODE

SENDERS NAME

PHONE NUMBER

COMPANY CAL SCIENCE

NAME

PHONE NUMBER 714.895.5494

ADDRESS 7440 LINCOLN WAY

ADDRESS

STE/ ROOM

CITY GARDEN GROVE

ZIP CODE 92841

YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

ECIAL STRUCTIONS

GSO GOLDEN STATE OVERNIGHT

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

PACKAGE LABEL

4 PACKAGE INFORMATION

- ☐ LETTER (MAX 8 OZ)
- ☐ PACKAGE (WT) _____
- ☐ DECLARED VALUE $_____
- ☐ COD AMOUNT $_____ (CASH NOT ACCEPTED)

5 DELIVERY SERVICE

- ☐ PRIORITY OVERNIGHT BY 10:30 AM
- ☐ EARLY PRIORITY BY 8:00 AM
- ☐ SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT

6 RELEASE SIGNATURE _____ SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UR INFORMATION _____ TIME _____ DRIVER # _____ ROUTE #

105866709

9 GSO TRACKING NUMBER

PEEL OFF HERE

105866709

386 0116

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-08-0086

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta Consultants

DATE: 08/03/10

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

Temperature 1.7 °C + 0.5 °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 ☐ Metals Only ☐ PCBs Only Initial: WB

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑ (8/03/10)	☑	☐
☐ 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 / Residual Chlorine / Dissolved Sulfide 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 ☐500PB ☐500PB**na**

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

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

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

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSL

Calscience
Environmental
Laboratories, Inc.

August 26, 2010

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-08-1198**
Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/14/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/14/10
1680 Rogers Avenue		Work Order No:	10-08-1198
San Jose, CA 95112-1105		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-08-1198-1-D**	**08/12/10 13:00**	**Aqueous**	**IC 9**	**N/A**	**08/17/10 01:30**	**100816L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	2700	50	50		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	**10-08-1198-4-D**	**08/12/10 11:25**	**Aqueous**	**IC 9**	**N/A**	**08/17/10 01:45**	**100816L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	110	2.0	2		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-1198-6-D**	**08/12/10 13:10**	**Aqueous**	**IC 9**	**N/A**	**08/17/10 02:00**	**100816L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	730	20	20		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,202**	**N/A**	**Aqueous**	**IC 9**	**N/A**	**08/16/10 19:20**	**100816L02**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/14/10
1680 Rogers Avenue		Work Order No:	10-08-1198
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-08-1198-1-A**	**08/12/10 13:00**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 08:34**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	270	1.0	2		o-Xylene	ND	2.0	2	
Ethylbenzene	47	2.0	2		Methyl-t-Butyl Ether (MTBE)	4.5	2.0	2	
Toluene	3.5	2.0	2		Tert-Butyl Alcohol (TBA)	21	20	2	
p/m-Xylene	46	2.0	2		TPPH	1300	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	80-126			1,2-Dichloroethane-d4	98	80-131		
Toluene-d8	97	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	94	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5	**10-08-1198-2-A**	**08/12/10 12:00**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 09:02**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.3	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	2.8	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	220	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	80-126			1,2-Dichloroethane-d4	99	80-131		
Toluene-d8	96	80-120			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	85	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-7	**10-08-1198-3-A**	**08/12/10 09:40**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 09:28**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	105	80-131		
Toluene-d8	96	80-120			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	85	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/14/10
1680 Rogers Avenue		Work Order No:	10-08-1198
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	**10-08-1198-4-A**	**08/12/10 11:25**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 09:55**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.0	2		o-Xylene	ND	2.0	2	
Ethylbenzene	ND	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	
Toluene	ND	2.0	2		Tert-Butyl Alcohol (TBA)	610	20	2	
p/m-Xylene	ND	2.0	2		TPPH	ND	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	102	80-131		
Toluene-d8	95	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	87	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11	**10-08-1198-5-A**	**08/12/10 10:40**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 10:22**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	80-126			1,2-Dichloroethane-d4	108	80-131		
Toluene-d8	97	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	86	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-1198-6-A**	**08/12/10 13:10**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 10:49**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.9	1.0	2		o-Xylene	3.4	2.0	2	
Ethylbenzene	370	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	
Toluene	17	2.0	2		Tert-Butyl Alcohol (TBA)	ND	20	2	
p/m-Xylene	110	2.0	2		TPPH	11000	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	90	80-126			1,2-Dichloroethane-d4	93	80-131		
Toluene-d8	100	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	95	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/14/10
1680 Rogers Avenue		Work Order No:	10-08-1198
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,487**	**N/A**	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10 03:33**	**100819L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	105	80-131		
Toluene-d8	96	80-120			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	85	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,494**	**N/A**	**Aqueous**	**GC/MS CC**	**08/23/10**	**08/23/10 13:07**	**100823L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-126			1,2-Dichloroethane-d4	102	80-131		
Toluene-d8	90	80-120			Toluene-d8-TPPH	93	88-112		
1,4-Bromofluorobenzene	91	80-120							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/10
Work Order No: 10-08-1198
Preparation: N/A
Method: EPA 300.0

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1042-1	**Aqueous**	**IC 9**	**N/A**	**08/17/10**	**100816S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	106	106	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/10
Work Order No: 10-08-1198
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1196-2	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10**	**100819S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	97	80-120	9	0-20	
Ethylbenzene	94	103	73-127	9	0-20	
Toluene	86	95	80-120	10	0-20	
Methyl-t-Butyl Ether (MTBE)	91	98	65-131	7	0-22	
Tert-Butyl Alcohol (TBA)	101	102	62-134	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/10
Work Order No: 10-08-1198
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1549-1	**Aqueous**	**GC/MS CC**	**08/23/10**	**08/23/10**	**100823S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	84	86	80-120	2	0-20	
Ethylbenzene	110	113	73-127	3	0-20	
Toluene	85	88	80-120	4	0-20	
Methyl-t-Butyl Ether (MTBE)	77	81	65-131	3	0-22	
Tert-Butyl Alcohol (TBA)	114	117	62-134	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received:	N/A
1680 Rogers Avenue	Work Order No:	10-08-1198
San Jose, CA 95112-1105	Preparation:	N/A
	Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,202	**Aqueous**	**IC 9**	**N/A**	**08/16/10**	**100816L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	104	104	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received:	N/A
1680 Rogers Avenue	Work Order No:	10-08-1198
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,487	**Aqueous**	**GC/MS QQ**	**08/19/10**	**08/20/10**	**100819L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	96	80-120	2	0-20	
Ethylbenzene	107	105	80-123	2	0-20	
Toluene	94	94	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	98	96	75-123	2	0-25	
Tert-Butyl Alcohol (TBA)	95	92	72-126	3	0-20	
TPPH	98	97	65-135	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	10-08-1198
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,494	**Aqueous**	**GC/MS CC**	**08/23/10**	**08/23/10**	**100823L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	116	112	80-120	3	0-20	
Ethylbenzene	109	114	80-123	5	0-20	
Toluene	117	114	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	120	114	75-123	5	0-25	
Tert-Butyl Alcohol (TBA)	94	96	72-126	2	0-20	
TPPH	97	87	65-135	12	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-08-1198

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Suzanne McClurkin-Nelson

INCIDENT # (ENV SERVICES): 98958243 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/12/10

PAGE: 1 of 1

PO # / SAP #

SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: (408)573-0555 | FAX: (408)573-7771 | E-MAIL: mninokata@blainetech.com

SITE ADDRESS: Street and City: 5251 Hopyard Rd., Pleasanton | State: CA | GLOBAL ID NO.: T0600101267

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico, Delta, San Jose Office | PHONE NO.: 408.826.1862 | E-MAIL: apico@deltaenv.com | CONSULTANT PROJECT NO.: 100812-IW1 | BTS#

SAMPLER NAME(S) (Print): IAN WILLIAMS

LAB USE ONLY: 10-08-1198

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

- ☐ LA - RWQCB REPORT FORMAT
- ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

CC Suzanne McClurkin-Nelson w/final report
smcclurkin-nelson@deltaenv.com

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Sulfate (EPA 300.0)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	S-3	8/12/10	1300	W	X			X		4	X		X		X	X								X	
2	S-5	"	1200	"	X					3	X		X		X	X									
3	S-7	"	0940	"	X					3	X		X		X	X									
4	S-10	"	1125	"	X			X		4	X		X		X	X								X	
5	S-11	"	1040	"	X					3	X		X		X	X									
6	EW-1	"	1310	"	X			X		4	X		X		X	X								X	

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
			8/12/10	1630
	BTJ	CEL	8/13/10	1115
	CO 8/13-10 0830 1730		8/14/10	0930

05/2/06 Revision

GSO

WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
BTS

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 514748284

SDS

ORC

D

GARDEN GROVE

D92843A

83909349

Print Date : 08/13/10 15:44 PM

Package 1 of 1

Send Label To Printer ☑ Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-08-1198

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS DATE: 08/14/10

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

Temperature 2.5 °C + 0.5 °C (CF) = 3.0 °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 ☐ Metals Only ☐ PCBs Only Initial: _____

CUSTODY SEALS INTACT:

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

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

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 / Residual Chlorine / Dissolved Sulfide 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 (2) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s**

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

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑250PJ ☐_____ ☐_____

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

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

Preservative: h: HCL n: HNO_3 **na₂**: $Na_2S_2O_3$ **na:** NaOH p: H_3PO_4 s: H_2SO_4 **znna:** $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** WDS C

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-08-1198

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s)/Container(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s)/Container(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☑ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
  - ☐ **Without Label(s)**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

(-4) collection time per label is 10:20

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: KP 08/14/10

Calscience
Environmental
Laboratories, Inc.

September 02, 2010

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-08-1719**
Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/21/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/21/10
1680 Rogers Avenue		Work Order No:	10-08-1719
San Jose, CA 95112-1105		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	**10-08-1719-1-D**	**08/18/10 14:35**	**Aqueous**	**IC 10**	**N/A**	**08/21/10 16:08**	**100821L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	3.3	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	**10-08-1719-2-G**	**08/18/10 13:25**	**Aqueous**	**IC 10**	**N/A**	**08/21/10 16:25**	**100821L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	450	10	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,219**	**N/A**	**Aqueous**	**IC 10**	**N/A**	**08/21/10 10:56**	**100821L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/21/10
1680 Rogers Avenue		Work Order No:	10-08-1719
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	**10-08-1719-1-B**	**08/18/10 14:35**	**Aqueous**	**GC/MS QQ**	**08/31/10**	**08/31/10 17:03**	**100831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	15	0.50	1		Xylenes (total)	34	1.0	1	
Ethylbenzene	87	1.0	1		Methyl-t-Butyl Ether (MTBE)	10	1.0	1	
Toluene	26	1.0	1		TPPH	4000	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	80-126			1,2-Dichloroethane-d4	99	80-131		
Toluene-d8	100	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	99	80-120							

S-2	**10-08-1719-2-A**	**08/18/10 13:25**	**Aqueous**	**GC/MS QQ**	**08/28/10**	**08/29/10 02:04**	**100828L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	24	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	80-126			1,2-Dichloroethane-d4	104	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	80-120							

S-12	**10-08-1719-3-A**	**08/18/10 13:05**	**Aqueous**	**GC/MS QQ**	**08/28/10**	**08/29/10 01:37**	**100828L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	20	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	107	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	08/21/10
1680 Rogers Avenue		Work Order No:	10-08-1719
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,526**	**N/A**	**Aqueous**	**GC/MS QQ**	**08/28/10**	**08/28/10 23:50**	**100828L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	105	80-131		
Toluene-d8	100	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	97	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,528**	**N/A**	**Aqueous**	**GC/MS QQ**	**08/31/10**	**08/31/10 13:56**	**100831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	99	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	80-120							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/21/10
Work Order No: 10-08-1719
Preparation: N/A
Method: EPA 300.0

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1738-1	**Aqueous**	**IC 10**	**N/A**	**08/21/10**	**100821S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	96	96	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/21/10
Work Order No: 10-08-1719
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1720-5	**Aqueous**	**GC/MS QQ**	**08/28/10**	**08/29/10**	**100828S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	94	80-120	3	0-20	
Ethylbenzene	95	94	73-127	1	0-20	
Toluene	94	92	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	93	94	65-131	2	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/21/10
Work Order No: 10-08-1719
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1693-18	**Aqueous**	**GC/MS QQ**	**08/31/10**	**08/31/10**	**100831S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	99	80-120	11	0-20	
Ethylbenzene	88	99	73-127	13	0-20	
Toluene	87	97	80-120	11	0-20	
Methyl-t-Butyl Ether (MTBE)	85	90	65-131	6	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	10-08-1719
San Jose, CA 95112-1105		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,219	**Aqueous**	**IC 10**	**N/A**	**08/21/10**	**100821L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	101	101	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received:	N/A
1680 Rogers Avenue	Work Order No:	10-08-1719
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,526	**Aqueous**	**GC/MS QQ**	**08/28/10**	**08/28/10**	**100828L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	80-120	1	0-20	
Ethylbenzene	97	98	80-123	2	0-20	
Toluene	96	97	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	95	96	75-123	1	0-25	
TPPH	84	82	65-135	2	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received:	N/A
1680 Rogers Avenue	Work Order No:	10-08-1719
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,528	**Aqueous**	**GC/MS QQ**	**08/31/10**	**08/31/10**	**100831L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	98	80-120	10	0-20	
Ethylbenzene	88	96	80-123	9	0-20	
Toluene	86	96	80-120	11	0-20	
Methyl-t-Butyl Ether (MTBE)	85	90	75-123	6	0-25	
TPPH	78	80	65-135	2	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-08-1719

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Suzanne McClurkin-Nelson

INCIDENT # (ENV SERVICES): 98995843 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/18/10

PO # / SAP #

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS: Street and City: 5251 Hopyard Rd., Pleasanton	State: CA
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112		GLOBAL ID NO.: T0600101267	
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata		EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico, Delta, San Jose Office	PHONE NO: 408.826.1862
TELEPHONE: (408)573-0555	FAX: (408)573-7771	E-MAIL: mninokata@blainetech.com	E-MAIL: apico@deltaenv.com
SAMPLER NAME(S) (Print): J. PARKER		CONSULTANT PROJECT NO: BTS# 100818-SP1	
		LAB USE ONLY: 08-1719	

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

CC Suzanne McClurkin-Nelson w/final report
smcclurkin-nelson@deltaenv.com

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)		Sulfate (EPA 300.0)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	S-1	8/18	W	1435	3			1		4	X		X		X										X	
2	S-2	"	"	1325	6			1		7	X		X		X										X	
3	S-12	"	"	1305	3					3	X		X		X											

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/18/10	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 8-20-10	Time: 1015
Relinquished by: (Signature) 8-20-10 1730	Received by: (Signature)	Date: 8/21/10	Time: 0900

05/2/06 Revision

1719

GSO

<WebShip>>>>>

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
CONOCO PHILLIPS, BTS, STANTEC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 514791974

SDS

ORC

D

GARDEN GROVE

D92843A

84080197

Print Date : 08/20/10 14:39 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-08-1 7 1 9

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 08/21/10

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

Temperature 1.9 °C + 0.5 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: YL

CUSTODY SEALS INTACT:

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

☐ 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 / Residual Chlorine / Dissolved Sulfide 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 ☐500PB ☐500PB**na**

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

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:** YL

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YL

Calscience Environmental Laboratories, Inc.

August 26, 2010

Suzanne McClurkin-Nelson
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 10-08-1381**
Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/18/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-1381-1-E**	**08/17/10 11:00**	**Aqueous**	**IC 9**	**N/A**	**08/18/10 16:17**	**100818L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	740	20	20		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-08-1381-2-E**	**08/17/10 10:40**	**Aqueous**	**IC 9**	**N/A**	**08/18/10 16:33**	**100818L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	1700	25	25		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,207**	**N/A**	**Aqueous**	**IC 9**	**N/A**	**08/18/10 11:25**	**100818L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-1381-1-A**	**08/17/10 11:00**	**Aqueous**	**GC/MS R**	**08/20/10**	**08/21/10 06:17**	**100820L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5.0	1.0	2		Xylenes (total)	52	2.0	2	
Ethylbenzene	2.9	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	
Toluene	3.8	2.0	2		TPPH	4000	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	80-126			1,2-Dichloroethane-d4	107	80-131		
Toluene-d8	103	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	102	80-120							

S-3	**10-08-1381-2-B**	**08/17/10 10:40**	**Aqueous**	**GC/MS R**	**08/23/10**	**08/23/10 23:19**	**100823L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	90	0.50	1		Xylenes (total)	15	1.0	1	
Ethylbenzene	17	1.0	1		Methyl-t-Butyl Ether (MTBE)	4.9	1.0	1	
Toluene	1.3	1.0	1		TPPH	870	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	80-126			1,2-Dichloroethane-d4	112	80-131		
Toluene-d8	103	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	101	80-120							

Method Blank	**099-12-767-4,493**	**N/A**	**Aqueous**	**GC/MS R**	**08/20/10**	**08/21/10 04:22**	**100820L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-126			1,2-Dichloroethane-d4	106	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	97	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,495**	**N/A**	**Aqueous**	**GC/MS R**	**08/23/10**	**08/23/10 15:04**	**100823L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	110	80-131		
Toluene-d8	102	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	101	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-08-1381-1-D**	**08/17/10 11:00**	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10 12:02**	**100818LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	1.07	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-08-1381-2-D**	**08/17/10 10:40**	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10 12:10**	**100818LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	1.07	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-10,890**	**N/A**	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10 11:56**	**100818LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

LABORATORY ID: 10-08-1381

Method: EPA 6010B (Calculation)
Matrix: Water/Aqueous

CLIENT: Delta Environmental Consultants, Inc.
PROJECT: 5251 Hopyard Rd., Pleasanton, CA

Results

Sample ID	Ferric Iron (Fe+3) mg/L	Dilution Factor	Reporting Limit	Date Extracted	Date Analyzed
EW-1	0.17	1	0.10	08/18/10	08/19/10
S-3	ND	1	0.10	08/18/10	08/19/10
Reporting Limit:	0.10				

Laboratory Notes

Ferrous Iron results were done in the field.

Key: ND=Not Detected at the reporting level, NA=Not applicable

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EW-1	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10**	**100818SA4**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	104	114	65-149	3	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Delta Environmental Consultants, Inc.		Date Received	08/18/10
312 Piercy Rd.		Work Order No:	10-08-1381
San Jose, CA 95138-1401		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
EW-1	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10**	**100818SA4**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	101	106	75-125	2	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 08/18/10
Work Order No: 10-08-1381
Preparation: N/A
Method: EPA 300.0

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-3	**Aqueous**	**IC 9**	**N/A**	**08/18/10**	**100818S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	100	101	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 08/18/10
Work Order No: 10-08-1381
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1387-6	**Aqueous**	**GC/MS R**	**08/20/10**	**08/21/10**	**100820S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	90	80-120	19	0-20	
Ethylbenzene	117	95	73-127	21	0-20	4
Toluene	113	94	80-120	18	0-20	
Methyl-t-Butyl Ether (MTBE)	101	103	65-131	2	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 08/18/10
Work Order No: 10-08-1381
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-1364-1	**Aqueous**	**GC/MS R**	**08/23/10**	**08/23/10**	**100823S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	100	80-120	10	0-20	
Ethylbenzene	94	107	73-127	13	0-20	
Toluene	96	102	80-120	6	0-20	
Methyl-t-Butyl Ether (MTBE)	102	117	65-131	11	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-08-1381
San Jose, CA 95138-1401	Preparation:	EPA 3010A Total
	Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-10,890	**Aqueous**	**ICP 5300**	**08/18/10**	**08/19/10**	**100818LA4**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	104	105	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-08-1381
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,207	**Aqueous**	**IC 9**	**N/A**	**08/18/10**	**100818L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	104	103	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-08-1381
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,493	**Aqueous**	**GC/MS R**	**08/20/10**	**08/21/10**	**100820L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	92	80-120	15	0-20	
Ethylbenzene	114	97	80-123	15	0-20	
Toluene	110	96	80-120	14	0-20	
Methyl-t-Butyl Ether (MTBE)	111	105	75-123	6	0-25	
TPPH	75	67	65-135	11	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-08-1381
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,495	**Aqueous**	**GC/MS R**	**08/23/10**	**08/23/10**	**100823L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	99	80-120	4	0-20	
Ethylbenzene	103	103	80-123	1	0-20	
Toluene	100	102	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	113	96	75-123	16	0-25	
TPPH	70	74	65-135	5	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-08-1381

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

INCIDENT # (ENV SERVICES): 98995834 [ ] CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 113587

DATE: 8/17/10

PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants	LOG CODE:	SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton	State: CA / GLOBAL ID NO.: T0600101267
ADDRESS: 312 Piercy Road, San Jose, CA 95138		EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico	PHONE NO.: 408-826-1862 / E-MAIL: apico@deltaenv.com / CONSULTANT PROJECT NO.: SCA5251H1D
PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson		Sampler Name: MATT LAMBERT	LAB USE ONLY: 08-1387
TELEPHONE: 408-826-1875 / FAX: 408-225-8506	E-MAIL: SMcClurkin-Nelson@deltaenv.com		

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED

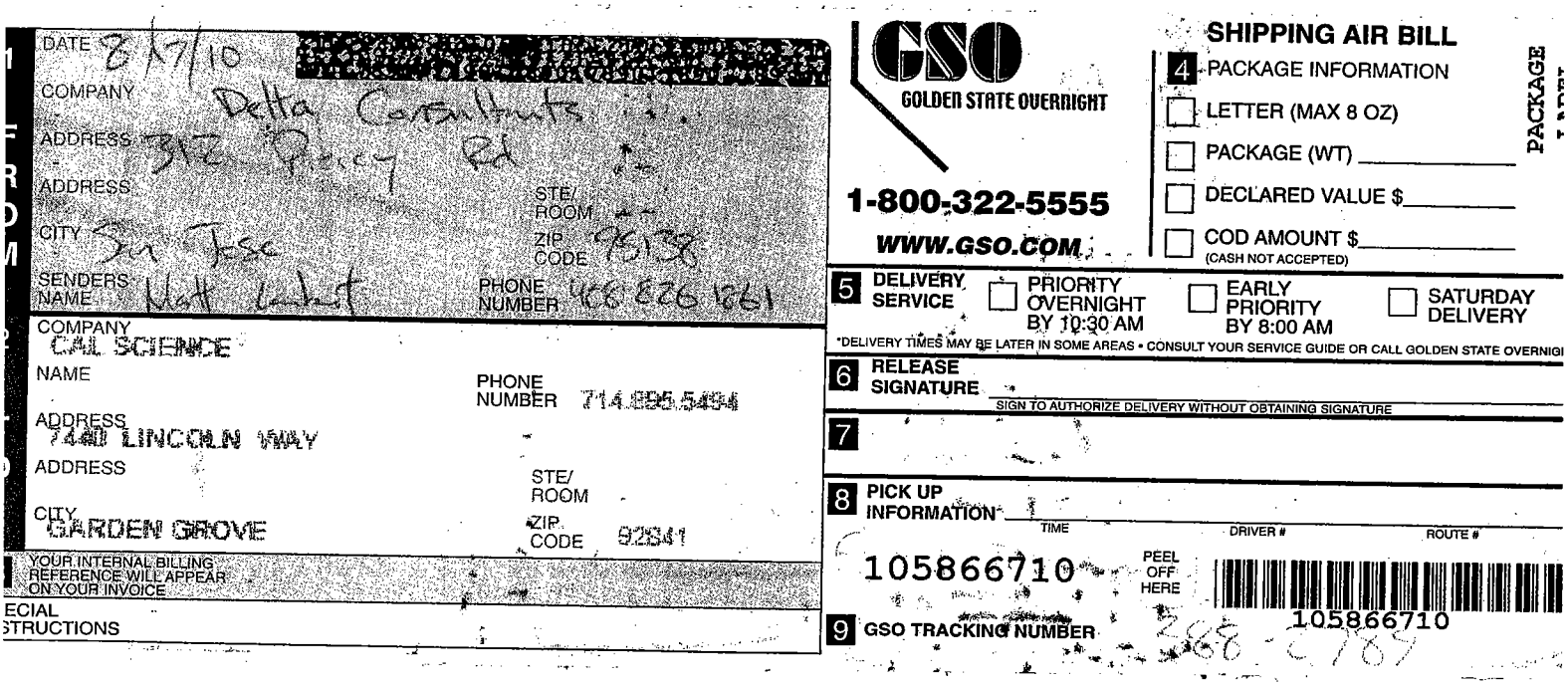
REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron (mg/L)	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	EW-1	8/17/10	11:00	Water	3	1		1		5	X	X	X	7.71	X	0.9	X		
2	S-3	8/17/10	10:40	Water	3	1		1		5	X	X	X	7.11	X	1.0	X		

Relinquished by: (Signature)	Received by: (Signature) GSO	Date: 8/17/10	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 8/18/10	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

(134)



FROM

DATE 8/17/10

COMPANY Delta Consultants

ADDRESS 312 Pacific Rd

ADDRESS

CITY San Jose

STE/ ROOM

ZIP CODE 95132

SENDERS NAME Matt Lahr

PHONE NUMBER 408 826 1961

COMPANY CAL SCIENCE

NAME

PHONE NUMBER 714 895 5494

ADDRESS 7440 LINCOLN WAY

ADDRESS

STE/ ROOM

CITY GARDEN GROVE

ZIP CODE 92841

YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

ECIAL STRUCTIONS

GSO GOLDEN STATE OVERNIGHT

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

PACKAGE COPY

4 PACKAGE INFORMATION

☐ LETTER (MAX 8 OZ)

☐ PACKAGE (WT) _____

☐ DECLARED VALUE $_____

☐ COD AMOUNT $_____ (CASH NOT ACCEPTED)

5 DELIVERY SERVICE ☐ PRIORITY OVERNIGHT BY 10:30 AM ☐ EARLY PRIORITY BY 8:00 AM ☐ SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGI

6 RELEASE SIGNATURE _____ SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UP INFORMATION _____ TIME DRIVER # ROUTE #

105866710 PEEL OFF HERE

9 GSO TRACKING NUMBER 105866710

366 - 787

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-08-1 3 8 1

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta

DATE: 08/18/10

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

Temperature 3.8 °C + 0.5 °C (CF) = 4.3 °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 ☐ Metals Only ☐ PCBs Only 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	☑ WSC 8-18-10	☐	☐
☐ 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 / Residual Chlorine / Dissolved Sulfide 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^{3}**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

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

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

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Bland Lot#:**_____ **Labeled/Checked by:** AL / hL

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

Preservative: h: HCL n: HNO_3 **na$_2$**: $Na_2S_2O_3$ **na**: NaOH p: H_3PO_4 s: H_2SO_4 **znna**: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** hL

Calscience
Environmental
Laboratories, Inc.

October 13, 2010

Suzanne McClurkin-Nelson
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 10-10-0122**
Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/2/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-0122-1-D**	**10/01/10 14:20**	**Aqueous**	**IC 7**	**N/A**	**10/04/10 13:55**	**101004L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	14000	200	200		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-10-0122-2-D**	**10/01/10 14:40**	**Aqueous**	**IC 7**	**N/A**	**10/04/10 14:11**	**101004L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	14000	200	200		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,300**	**N/A**	**Aqueous**	**IC 7**	**N/A**	**10/04/10 11:51**	**101004L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	EPA 5030C
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-0122-1-B**	**10/01/10 14:20**	**Aqueous**	**GC/MS R**	**10/11/10**	**10/11/10 16:58**	**101011L01**

Comment(s): Sample taken from VOA vial with air bubble > 6mm diameter.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.4	0.50	1		Xylenes (total)	3.2	1.0	1	
Ethylbenzene	2.2	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	1.4	1.0	1		TPPH	3100	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	80-126			1,2-Dichloroethane-d4	106	80-131		
Toluene-d8	108	80-120			Toluene-d8-TPPH	106	88-112		
1,4-Bromofluorobenzene	104	80-120							

S-3	**10-10-0122-2-A**	**10/01/10 14:40**	**Aqueous**	**GC/MS R**	**10/09/10**	**10/10/10 04:15**	**101009L02**

Comment(s): Sample taken from VOA vial with air bubble > 6mm diameter.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	240	1.0	2		Xylenes (total)	65	1.0	1	
Ethylbenzene	140	1.0	1		Methyl-t-Butyl Ether (MTBE)	4.5	1.0	1	
Toluene	5.1	1.0	1		TPPH	2000	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	116	80-131		
Toluene-d8	101	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	103	80-120							

Method Blank	**099-12-767-4,685**	**N/A**	**Aqueous**	**GC/MS R**	**10/09/10**	**10/10/10 01:49**	**101009L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	80-126			1,2-Dichloroethane-d4	105	80-131		
Toluene-d8	102	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	99	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	EPA 5030C
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,688**	**N/A**	**Aqueous**	**GC/MS R**	**10/11/10**	**10/11/10 14:59**	**101011L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	105	80-131		
Toluene-d8	105	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	102	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-0122-1-E**	**10/01/10 14:20**	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10 12:29**	**101004LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	7.19	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-10-0122-2-E**	**10/01/10 14:40**	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10 12:31**	**101004LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	17.2	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-11,021**	**N/A**	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10 12:02**	**101004LA4**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

LABORATORY ID: 10-10-0122

Method: EPA 6010B (Calculation)
Matrix: Water/Aqueous

CLIENT: Delta Environmental Consultants, Inc.
PROJECT: 5251 Hopyard Rd., Pleasanton, CA

Results

Sample ID	Ferric Iron (Fe+3) mg/L	Dilution Factor	Reporting Limit	Date Extracted	Date Analyzed
EW-1	0.69	1	0.10	10/04/10	10/05/10
S-3	10.4	1	0.10	10/04/10	10/05/10
Reporting Limit:	0.10				

Laboratory Notes

Ferrous Iron results were done in the field.

Key: ND=Not Detected at the reporting level, NA=Not applicable

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-0185-4	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10**	**101004SA4**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	108	105	65-149	3	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Delta Environmental Consultants, Inc.		Date Received	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-10-0185-4	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10**	**101004SA4**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	107	106	75-125	0	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	10/02/10
312 Piercy Rd.		Work Order No:	10-10-0122
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA 300.0

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-0146-2	**Aqueous**	**IC 7**	**N/A**	**10/04/10**	**101004S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	98	98	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/02/10
Work Order No: 10-10-0122
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-0258-9	**Aqueous**	**GC/MS R**	**10/09/10**	**10/10/10**	**101009S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	107	80-120	11	0-20	
Ethylbenzene	95	111	73-127	15	0-20	
Toluene	101	112	80-120	11	0-20	
Methyl-t-Butyl Ether (MTBE)	91	99	65-131	8	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/02/10
Work Order No: 10-10-0122
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-0192-5	**Aqueous**	**GC/MS R**	**10/11/10**	**10/11/10**	**101011S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	95	80-120	14	0-20	
Ethylbenzene	109	97	73-127	11	0-20	
Toluene	112	98	80-120	14	0-20	
Methyl-t-Butyl Ether (MTBE)	106	80	65-131	28	0-22	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-10-0122
San Jose, CA 95138-1401	Preparation:	EPA 3010A Total
	Method:	EPA 6010B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-11,021	**Aqueous**	**ICP 5300**	**10/04/10**	**10/05/10**	**101004LA4**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	102	100	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-10-0122
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA 300.0

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,300	**Aqueous**	**IC 7**	**N/A**	**10/04/10**	**101004L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	104	104	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-10-0122
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,685	**Aqueous**	**GC/MS R**	**10/09/10**	**10/10/10**	**101009L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	98	80-120	11	0-20	
Ethylbenzene	109	100	80-123	8	0-20	
Toluene	111	100	80-120	10	0-20	
Methyl-t-Butyl Ether (MTBE)	104	84	75-123	21	0-25	
TPPH	94	86	65-135	10	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-10-0122
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,688	**Aqueous**	**GC/MS R**	**10/11/10**	**10/11/10**	**101011L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	99	80-120	7	0-20	
Ethylbenzene	107	97	80-123	10	0-20	
Toluene	112	102	80-120	10	0-20	
Methyl-t-Butyl Ether (MTBE)	99	84	75-123	16	0-25	
TPPH	104	90	65-135	15	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-10-0122

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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☑ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

PO #:

INCIDENT # (ENV SERVICES): 98995834 ☐ CHECK IF NO INCIDENT # APPLIES

SAP #: 113578

DATE: 10/1/10

PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton

State: CA

GLOBAL ID NO.: T0600101267

ADDRESS: 312 Piercy Road, San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: apico@deltaenv.com

CONSULTANT PROJECT NO.: SCA5251H1D

PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson

TELEPHONE: 408-826-1875

FAX: 408-225-8506

E-MAIL: SMcClurkin-Nelson@deltaenv.com

Sampler Name: MATT LAMBERT

LAB USE ONLY: 10-10-0122

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron mg/L	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	EW-1	10/1/10	14:20	Water	3	1		1		5	X	X	X	6.87	X	6.5	X		
2	S-3	10/1/10	14:40	Water	3	1		1		5	X	X	X	6.68	X	6.8	X		

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
1		GSO	10/1/10	
2		CEL	10/02/10	0915
3				

05/2/06 Revision

STE/
ROOM
ZIP
CODE 92656
PHONE
NUMBER

CE

PHONE
NUMBER 714-895-5494

)LN WAY

STE/
ROOM

ZIP
CODE 92841

ROVE

ING
PEAR

GSO
GOLDEN STATE OVERNIGHT

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

PACKAGE LABEL

4 PACKAGE INFORMATION

- ☐ LETTER (MAX 8 OZ)
- ☐ PACKAGE (WT) _____
- ☐ DECLARED VALUE $ _____
- ☐ COD AMOUNT $ _____ (CASH NOT ACCEPTED)

5 DELIVERY SERVICE

- ☐ PRIORITY OVERNIGHT BY 10:30 AM
- ☐ EARLY PRIORITY BY 8:00 AM
- ☒ SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE _____
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7

8 PICK UP INFORMATION _____ TIME _____ DRIVER # _____ ROUTE #

106280192

PEEL OFF HERE

106280192

9 GSO TRACKING NUMBER

0122

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-10-0 1 2 2

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta Consultants DATE: 10/02/10

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

Temperature 3.3 °C + 0.5 °C (CF) = 3.8 °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: TN

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑ WSC 10-02-10	☑	☐
☐ 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 / Residual Chlorine / Dissolved Sulfide 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 ☑3 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 ☐500PB ☐500PB**na**

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

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

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 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Calscience
Environmental
Laboratories, Inc.

October 26, 2010

Suzanne McClurkin-Nelson
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 10-10-1529**
Client Reference: 5251 Hopyard Road, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/20/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/20/10
Work Order No: 10-10-1529
Preparation: N/A
Method: EPA 300.0

Project: 5251 Hopyard Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-1529-1-D**	**10/19/10 14:15**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 14:57**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	5800	100	100		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-10-1529-2-D**	**10/19/10 13:50**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 15:12**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	9300	200	200		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	**10-10-1529-3-D**	**10/19/10 14:40**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 15:28**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	1.7	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	**10-10-1529-4-D**	**10/19/10 15:20**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 15:43**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	510	10	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	**10-10-1529-5-D**	**10/19/10 15:00**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 17:16**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	140	2.0	2		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-1,334**	**N/A**	**Aqueous**	**IC 9**	**N/A**	**10/20/10 11:52**	**101020L01**

Parameter	Result	RL	DF	Qual	Units
Sulfate	ND	1.0	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 5030C
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-1529-1-A**	**10/19/10 14:15**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 07:16**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.8	0.50	1		Xylenes (total)	9.0	1.0	1	
Ethylbenzene	6.3	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	1.4	1.0	1		TPPH	5600	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	95	80-126			1,2-Dichloroethane-d4	96	80-131		
Toluene-d8	101	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	98	80-120							

S-3	**10-10-1529-2-A**	**10/19/10 13:50**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 07:46**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	190	1.0	2		Xylenes (total)	24	2.0	2	
Ethylbenzene	80	2.0	2		Methyl-t-Butyl Ether (MTBE)	6.9	2.0	2	
Toluene	ND	2.0	2		TPPH	3000	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	80-126			1,2-Dichloroethane-d4	96	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	96	80-120							

S-1	**10-10-1529-3-A**	**10/19/10 14:40**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 08:15**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	20	2.5	5		Xylenes (total)	29	5.0	5	
Ethylbenzene	92	5.0	5		Methyl-t-Butyl Ether (MTBE)	7.2	5.0	5	
Toluene	33	5.0	5		TPPH	13000	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	95	80-126			1,2-Dichloroethane-d4	95	80-131		
Toluene-d8	98	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	96	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 5030C
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	**10-10-1529-4-A**	**10/19/10 15:20**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 08:45**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	17	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	80-126			1,2-Dichloroethane-d4	102	80-131		
Toluene-d8	97	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	93	80-120							

S-10	**10-10-1529-5-A**	**10/19/10 15:00**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 09:15**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-126			1,2-Dichloroethane-d4	104	80-131		
Toluene-d8	97	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	93	80-120							

Method Blank	**099-12-767-4,761**	**N/A**	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10 00:50**	**101021L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	80-126			1,2-Dichloroethane-d4	111	80-131		
Toluene-d8	99	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	89	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 5030C
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 5251 Hopyard Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,770**	**N/A**	**Aqueous**	**GC/MS R**	**10/23/10**	**10/23/10 12:57**	**101023L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	80-126			1,2-Dichloroethane-d4	119	80-131		
Toluene-d8	97	80-120			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	109	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 5251 Hopyard Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EW-1	**10-10-1529-1-E**	**10/19/10 14:15**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 13:04**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	6.36	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	**10-10-1529-2-E**	**10/19/10 13:50**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 13:06**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	16.3	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	**10-10-1529-3-E**	**10/19/10 14:40**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 13:08**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	0.583	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	**10-10-1529-4-E**	**10/19/10 15:20**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 13:10**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	**10-10-1529-5-E**	**10/19/10 15:00**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 13:12**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	0.261	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-11,068**	**N/A**	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10 11:25**	**101020LA5**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

LABORATORY ID: 10-10-1529

Method: EPA 6010B (Calculation)
Matrix: Water/Aqueous

CLIENT: Delta Environmental Consultants, Inc.
PROJECT: 5251 Hopyard Road, Pleasanton, CA

Results

Sample ID	Ferric Iron (Fe+3) mg/L	Dilution Factor	Reporting Limit	Date Extracted	Date Analyzed
EW-1	1.56	1	0.10	10/20/10	10/21/10
S-3	10.7	1	0.10	10/20/10	10/21/10
S-1	ND *	1	0.10	10/20/10	10/21/10
S-2	ND	1	0.10	10/20/10	10/21/10
S-10	0.26	1	0.10	10/20/10	10/21/10

Reporting Limit: 0.10

Laboratory Notes

Ferrous Iron results were done in the field.

* Total Iron concentration is less than Ferrous Iron concentration

Key: ND=Not Detected at the reporting level, NA=Not applicable

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-1501-12	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10**	**101020SA5**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	4X	4X	65-149	4X	0-21	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Delta Environmental Consultants, Inc.		Date Received	10/20/10
312 Piercy Rd.		Work Order No:	10-10-1529
San Jose, CA 95138-1401		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-10-1501-12	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10**	**101020SA5**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	4X	4X	75-125	4X	0-21	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/20/10
Work Order No: 10-10-1529
Preparation: N/A
Method: EPA 300.0

Project 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-2	**Aqueous**	**IC 9**	**N/A**	**10/20/10**	**101020S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	98	98	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/20/10
Work Order No: 10-10-1529
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-1323-1	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10**	**101021S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	94	80-120	3	0-20	
Ethylbenzene	97	95	73-127	2	0-20	
Toluene	94	93	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	91	91	65-131	0	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 10/20/10
Work Order No: 10-10-1529
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-10-1403-22	**Aqueous**	**GC/MS R**	**10/23/10**	**10/23/10**	**101023S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	96	80-120	3	0-20	
Ethylbenzene	107	99	73-127	7	0-20	
Toluene	106	105	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	107	94	65-131	13	0-22	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-10-1529
San Jose, CA 95138-1401	Preparation:	EPA 3010A Total
	Method:	EPA 6010B

Project: 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-11,068	**Aqueous**	**ICP 5300**	**10/20/10**	**10/21/10**	**101020LA5**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	110	110	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy Rd.	Work Order No:	10-10-1529
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA 300.0

Project: 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-1,334	**Aqueous**	**IC 9**	**N/A**	**10/20/10**	**101020L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Sulfate	100	99	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-10-1529
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,761	**Aqueous**	**GC/MS T**	**10/21/10**	**10/22/10**	**101021L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	95	80-120	1	0-20	
Ethylbenzene	96	96	80-123	0	0-20	
Toluene	92	92	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	92	92	75-123	1	0-25	
TPPH	90	91	65-135	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-10-1529
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,770	**Aqueous**	**GC/MS R**	**10/23/10**	**10/23/10**	**101023L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	99	80-120	7	0-20	
Ethylbenzene	109	107	80-123	2	0-20	
Toluene	110	108	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	115	96	75-123	18	0-25	
TPPH	122	127	65-135	5	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-10-1529

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.
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.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS 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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Suzanne McClurkin-Nelson/Delta Consultants

INCIDENT # (ENV SERVICES): 98995584 [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 10/19/10

PAGE: 1 of 1

PO #:

SAP #: 113585

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 5251 Hopyard Road; Pleasanton

State: CA

GLOBAL ID NO.: T0600101267

ADDRESS: 312 Piercy Road, San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: apico@deltaenv.com

CONSULTANT PROJECT NO.: SCA5251H1D

PROJECT CONTACT (Hardcopy or PDF Report to): Suzanne McClurkin- Nelson

TELEPHONE: 408-826-1875

FAX: 408-225-8506

E-MAIL: SMcClurkin-Nelson@deltaenv.com

Sampler Name: Matt Lambert

LAB USE ONLY: 10-10-1529

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [x] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Gasoline Hydrocarbons: TPH-Gasoline (8260B)	BTEX (8260B)	MTBE (8260B)	pH	Sulfate Indicators: Sulfate	Ferrous Iron mg/L	Ferric Iron	Waste Characterization	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	EW-1	10/19/10	1415	Water	3	1		1		5	X	X	X	7.49	X	4.8	X		
2	S-3		1350	Water	3	1		1		5	X	X	X	7.20	X	7.0	X		5.6
3	S-1		1440	Water	3	1		1		5	X	X	X	8.00	X	0.8	X		
4	S-2		1520	Water	3	1		1		5	X	X	X	7.68	X	0.0	X		
5	S-10		1500	Water	3	1		1		5	X	X	X	8.16	X	0.0	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 10/19/10	Time:
Relinquished by: (Signature) GSO	Received by: (Signature) Wdata CA	Date: 10/20/10	Time: 0830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

1529

DATE 10/11/10 SHIPPERS GSO ACCOUNT NO 9255

COMPANY [illegible] Consultants

ADDRESS [illegible] STE/ ROOM

ADDRESS [illegible] ZIP CODE [illegible]

SHIPPERS NAME [illegible] PHONE NUMBER (408) 528-4582

COMPANY
CAL SCIENCE

NAME

PHONE NUMBER **714-895-5494**

ADDRESS
7440 LINCOLN WAY

ADDRESS

STE/ ROOM

CITY
GARDEN GROVE

ZIP CODE **92841**

YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE

ECIAL STRUCTIONS

GSO
GOLDEN STATE OVERNIGHT

1-800-322-5555

WWW.GSO.COM

SHIPPING AIR BILL

GSO

4 PACKAGE INFORMATION
- ☐ LETTER (MAX 8 OZ)
- ☐ PACKAGE (WT) _____
- ☐ DECLARED VALUE $ _____
- ☐ COD AMOUNT $ _____ (CASH NOT ACCEPTED)

5 DELIVERY SERVICE ☐ PRIORITY OVERNIGHT BY 10:30 AM ☐ EARLY PRIORITY BY 8:00 AM ☐ SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIG

6 RELEASE SIGNATURE _____
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7 CREDIT CARD ☐ M/C ☐ VISA ☐ AM EX CREDIT CARD NUMBER EXP. D

8 PICK UP INFORMATION _____ TIME DRIVER # ROUTE #

106280194

9 GSO TRACKING NUMBER

106280194

394 3557

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-10-1529

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta Consultants DATE: 10/20/10

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

Temperature 2.3 °C + 0.5 °C (CF) = 2.8 °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: WB

CUSTODY SEALS INTACT:

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

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

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 / Residual Chlorine / Dissolved Sulfide 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** (2) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

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

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

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

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 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** _____