

SECOND QUARTER 2014
GROUNDWATER MONITORING REPORT
JORDAN RANCH – PARCEL H
DUBLIN, CALIFORNIA



ENGEO

Expect Excellence

Submitted to:
Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Prepared by:
ENGEO Incorporated

Project No.
7828.000.001

July 15, 2014

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7828.000.001

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Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RECEIVED

By Alameda County Environmental Health at 9:14 am, Jul 17, 2014

Subject: Jordan Ranch Parcel H – Former Leaking Underground Storage Tank
Dublin, California
ACEH Case No. R00002918

SECOND QUARTER 2014 GROUNDWATER MONITORING REPORT AND REQUEST FOR NO FURTHER ACTION

Dear Mr. Wickham:

This letter summarizes the results of the second quarter 2014 groundwater monitoring event completed for the Jordan Ranch – Parcel H (Site) located in Dublin, California. This is the eighth monitoring event following completion of the soil and groundwater remediation activities performed in Fall 2011. The Site is located at the east side of the intersection of Central Parkway and Fallon Road. A vicinity map is attached as Figure 1.

GROUNDWATER MONITORING

Groundwater Elevations

ENGEO measured and recorded groundwater depths from the top of well casings (TOC) for wells MW-1, MW-2, MW-4, MW-5, MW-6A, MW-6B, MW-7A, and MW-7B on March 28, 2014. The monitoring well locations are shown on Figure 2.

Prior to recording the depth to water, we removed the well caps and allowed the water levels in each well to equilibrate.

The depth to groundwater in the Site monitoring wells ranged from 7.58 feet below the TOC in MW-7B to 12.60 feet below the TOC in MW-6A.

During this sampling event, the groundwater flow appears to be toward the south with a gradient of approximately 0.030 feet per foot (ft/ft). Groundwater elevation contours for this event are depicted on Figure 2. The cumulative groundwater elevation data from this event are summarized in Table 1 (attached).

Well Sampling

After recording groundwater depth measurements, we collected groundwater samples from wells MW-1, MW-2, MW-4, MW-5, MW-6A, MW-6B, MW-7A, and MW-7B. Well sampling logs are attached.

ENGEO conducted the following activities during sampling:

- Purged three well casing volumes from each well using a submersible pump.
- Monitored and recorded pH, temperature, and conductivity measurements during purging.
- Contained the purge water in labeled 55-gallon drums.
- Collected groundwater samples using new disposable bailers.
- Transferred the groundwater to laboratory-provided, pre-preserved sample containers, which were labeled to include sample identification, date, and time of collection and requested analyses.
- Stored the groundwater samples on ice during transportation to TestAmerica Laboratories, Inc. in Pleasanton, California under documented chain of custody.
- Submitted the samples for the analysis of total petroleum hydrocarbons as gasoline (TPHg) and volatile organic compounds (VOCs), including naphthalene, methanol, ethanol, *tert*-butyl alcohol (TBA), methyl *tert*-butyl ether (MTBE), ethyl *tert*-butyl ether (ETBE), *tert*-amyl methyl ether (TAME), and diisopropyl ether (DIPE) by EPA Test Method 8260B, and total petroleum hydrocarbons as diesel (TPHd) by EPA Test Method 8015B using silica gel cleanup by EPA Test Method 3630.

Groundwater Analytical Results

Concentrations of petroleum hydrocarbons and VOCs detected during the second quarter 2014 monitoring event are tabulated below:

Well Location	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Napthalene (ug/L)
MW-1	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
MW-2	790	<0.5	<0.50	22	22	<0.50	9.9
MW-4	<50	<0.50	<0.50	<0.50	<0.50	6.4	<1.0

Well Location	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Napthalene (ug/L)
MW-5	19,000	110	160	1,900	440	33	520
MW-6A	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
MW-6B	160	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
MW-7A	<50	<0.50	<0.50	<0.50	<1.0	3.4	<1.0
MW-7B	<50	<0.50	<0.50	<0.50	<1.0	3.6	<1.0

Cumulative groundwater monitoring well data is summarized in Table 2, attached. Copies of the groundwater laboratory report and chain-of-custody record are attached.

FINDINGS

As shown in the comparison table below, concentrations of TPHg have decreased 74% to 95% since implementation of the soil and groundwater remediation in fall 2011. Benzene has decreased 99% to 100%. MTBE has decreased 67% to 100%. The trends for TPHg, benzene, and MTBE are shown on attached Charts 1 through 3.

Well Location	August 2010 (Pre)			June 2014 (Post)			Percent Decrease		
	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
MW-1	<50	<0.5	<0.5	<50	<0.50	<0.50	---	---	---
MW-2	15,000	780	170	790	<0.5	<0.5	-95%	-100%	-100%
MW-4	<50	<0.5	80	<50	<0.50	6.4	---	---	-92%
MW-5	74,000	7,500	100	19,000	110	33	-74%	-99%	-67%

REQUEST FOR NO FURTHER ACTION

Groundwater monitoring has been performed for eight quarters following completion of the soil and groundwater remediation. As depicted on Charts 1, 2, and 3, concentrations of TPHg, benzene, and MTBE have depicted consistent decreasing trends since remediation was completed in fall 2011. The downgradient limit of MTBE impacts is delineated by MW-6A/6B, and MW-7A/7B, which confirm that there is no offsite migration of MTBE impacts above the Maximum Contaminant Level (MCL).

On behalf of the property owner, BJP ROF Jordan Ranch LLP, we formally request site closure. We propose to discontinue groundwater monitoring at the site. In the Updated Site Conceptual Model (ENGEO, April 24, 2013), we provided site-specific responses to the criteria listed in the Low-Threat Policy checklist from the SWRCB Low-Threat Underground Storage Tank Case Closure Policy. At your request, we can update the site-specific checklist responses.

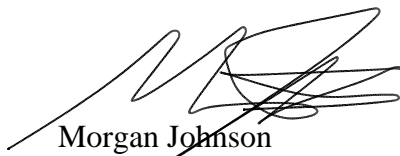
LIMITATIONS


At the time we performed our professional services, they were consistent with those generally accepted environmental engineering principles and practices currently employed in Northern California. ENGEO does not express or imply any other warranty. Findings in this report are valid as of the day of monitoring. However, changes in groundwater conditions can occur with the passage of time, whether due to natural processes or human activity on the Site or on surrounding properties. ENGEO prepared this report for the exclusive use of our client. This report is applicable only for the subject property. We are not responsible for others' interpretations of this report's data. This report does not represent a legal opinion.

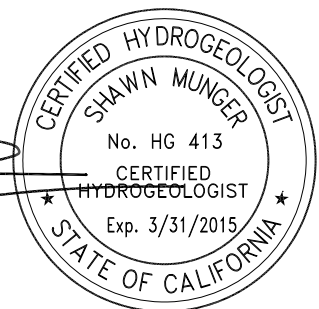
If you have any questions or comments regarding this report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated


Morgan Johnson
Environmental Scientist


Shawn Munger, CHG
Principal



Attachments: Figure 1 – Vicinity Map
Figure 2 – Groundwater Elevation Contour Map – June 2014
Figure 3 – Concentrations of Petroleum Hydrocarbons in Groundwater – June 2014
Table 1 – Groundwater Elevations
Table 2 – Groundwater Analytical Data
Chart 1 – TPHg Trendline
Chart 2 – Benzene Trendline
Chart 3 – MTBE Trendline
Monitoring Well Sampling Logs
Groundwater Laboratory Analytical Report and Chain-of-Custody Record
Perjury Statement

cc: Mr. Ravi Nandwana, BJP-ROF Jordan Ranch, LLC

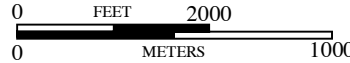
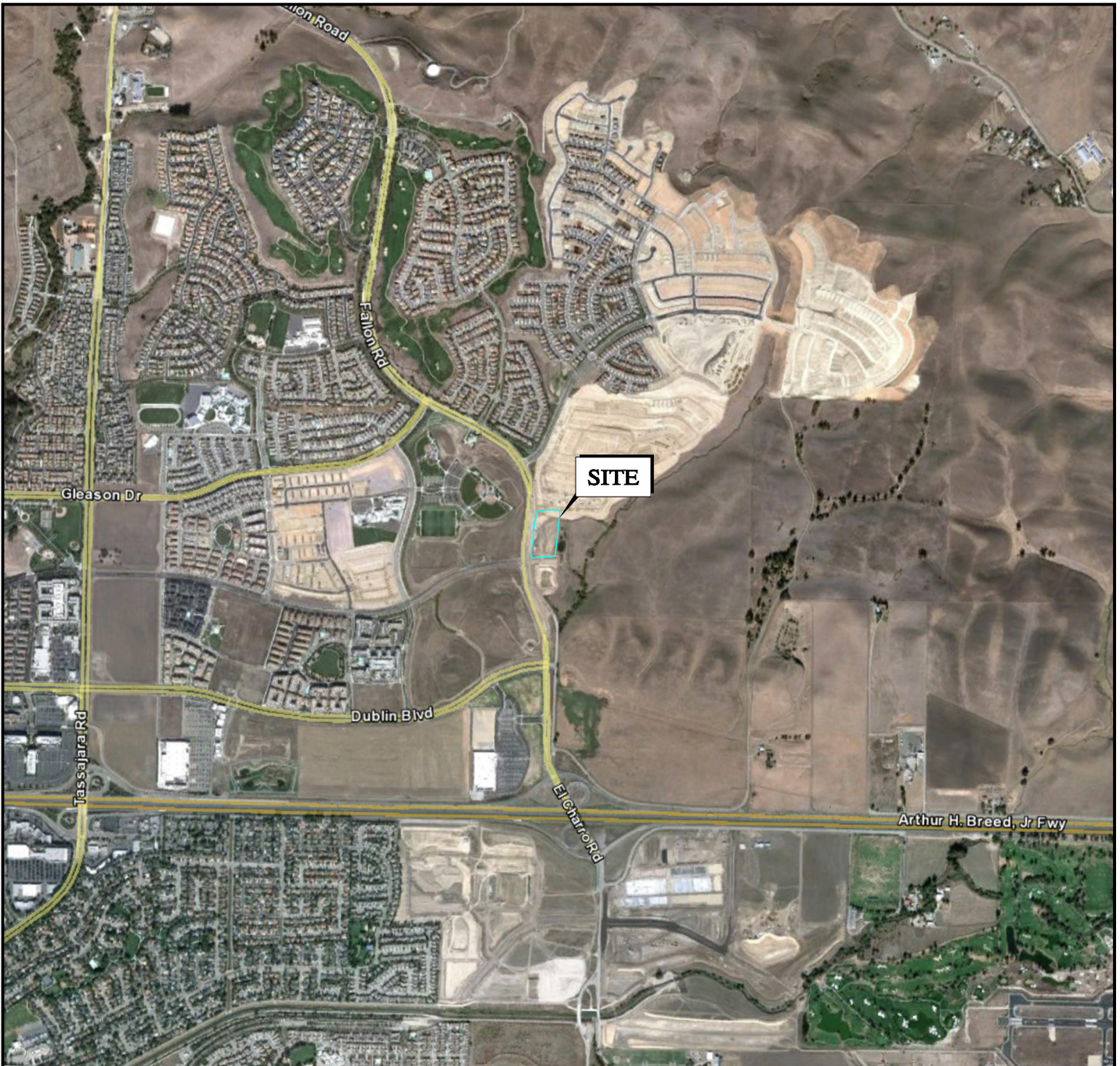
FIGURES

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation Contour Map – June 2014

Figure 3 – Concentrations of Petroleum Hydrocarbons in Groundwater – June 2014

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BASE MAP SOURCE: GOOGLE EARTH



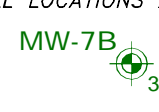


VICINITY MAP
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

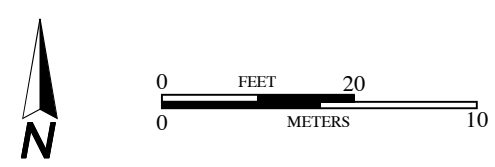
PROJECT NO.: 7828.000.001	FIGURE NO. 1
DATE: AS SHOWN	
DRAWN BY: SRP CHECKED BY: SM	



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  MW-7B 399.81 LOCATION OF MONITORING WELL WITH GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
-  SG-6 LOCATION OF SOIL GAS WELL
-  GROUNDWATER FLOW DIRECTION



BASE MAP SOURCE: GOOGLE EARTH



GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 2014
 JORDAN RANCH - PARCEL H
 DUBLIN, CALIFORNIA

PROJECT NO: 7828.000.001
 SCALE: AS SHOWN
 DRAWN BY: SRP
 CHECKED BY: SM

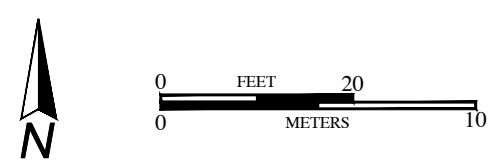
FIGURE NO: 2



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- MW-7B LOCATION OF MONITORING WELL
- MTBE ($\mu\text{g/L}$)
- BENZENE ($\mu\text{g/L}$)
- TPHg ($\mu\text{g/L}$)
- ($\mu\text{g/L}$) MICROGRAMS PER LITER
- SG-6 LOCATION OF SOIL GAS WELL



BASE MAP SOURCE: GOOGLE EARTH



CONCENTRATION OF PETROLEUM HYDROCARBONS
IN GROUNDWATER - JUNE 2014
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

PROJECT NO: 7828.000.001	FIGURE NO:
SCALE: AS SHOWN	3
DRAWN BY: SRP	CHECKED BY: SM
ORIGINAL FIGURE PRINTED IN COLOR	

TABLES

Table 1 – Groundwater Elevations

Table 2 – Groundwater Analytical Data

TABLE 1
Groundwater Elevations
Jordan Ranch
Dublin, California

Well Number	Date	Depth to Groundwater (1) (feet bgs)	Top of Casing Elevation (2) (feet)	Groundwater Elevation (feet msl)
MW-1	12/6/2005	17.08	425.73	408.65
	7/26/2006	13.92	425.73	411.81
	4/10/2008	11.64	425.73	414.09
	8/24/2010	11.75	425.73	413.98
	1/10/2012	10.52	425.73	415.21
	4/30/2012	10.40	425.73	415.33
	7/26/2012	10.58	425.73	415.15
	10/4/2012	11.51	425.73	414.22
	2/22/2013	10.20	425.73	415.53
	11/22/2013	8.20	421.48	413.28
	3/28/2014	8.10	421.48	413.38
	6/18/2014	8.50	421.48	412.98
MW-2	12/6/2005	18.01	424.98	406.97
	7/26/2006	15.44	424.98	409.54
	4/10/2008	14.02	424.98	410.96
	8/24/2010	14.17	424.98	410.81
	1/10/2012	12.83	424.98	412.15
	4/30/2012	12.20	424.98	412.78
	7/26/2012	12.60	424.98	412.38
	10/4/2012	13.68	424.98	411.30
	2/22/2013	12.20	424.98	412.78
	11/22/2013	10.64	420.73	410.09
	3/28/2014	11.20	420.73	409.53
	6/18/2014	10.66	420.73	410.07
MW-3	12/6/2005	17.35	421.47	404.12
	7/26/2006	14.20	421.47	407.27
	4/10/2008	12.31	421.47	409.16
	8/24/2010	12.29	421.47	409.18
	1/10/2012	Inadvertantly Covered by Grading Operations		
MW-4	12/6/2005	18.58	421.60	403.02
	7/26/2006	15.75	421.60	405.85
	4/10/2008	13.89	421.60	407.71
	8/24/2010	13.88	421.60	407.72
	1/10/2012	Obstruction in Casing		
	4/30/2012	11.52	421.60	410.08
	7/26/2012	11.80	421.60	409.80
	10/4/2012	12.55	421.60	409.05
	2/22/2013	11.20	421.60	410.40
	11/22/2013	10.42	417.38	406.96
3/28/2014	11.20	417.38	406.18	
6/18/2014	10.60	417.38	406.78	

Well Number	Date	Depth to Groundwater (1) (feet bgs)	Top of Casing Elevation (2) (feet)	Groundwater Elevation (feet msl)
MW-5	12/6/2005	16.40	424.04	407.64
	7/26/2006	13.89	424.04	410.15
	4/10/2008	12.24	424.04	411.80
	8/24/2010	12.20	424.04	411.84
	1/10/2012	11.11	424.04	412.93
	4/30/2012	10.50	424.04	413.54
	7/26/2012	10.85	424.04	413.19
	10/4/2012	12.24	424.04	411.80
	2/22/2013	10.40	424.04	413.64
	11/22/2013	9.06	419.80	410.74
	3/28/2014	9.80	419.80	410.00
	6/18/2014	9.16	419.80	410.64
MW-6A	11/22/2013	12.18	420.27	408.09
	3/28/2014	12.10	420.27	408.17
	6/18/2014	12.60	420.27	407.67
MW-6B	11/22/2013	11.98	420.12	408.14
	3/28/2014	11.90	420.12	408.22
	6/18/2014	12.33	420.12	407.79
MW-7A	11/22/2013	7.95	407.72	399.77
	3/28/2014	7.80	407.72	399.92
	6/18/2014	8.25	407.72	399.47
MW-7B	11/22/2013	7.37	407.39	400.02
	3/28/2014	8.40	407.39	398.99
	6/18/2014	7.58	407.39	399.81
NOTES:				
bgs = Below ground surface msl = Mean sea level				
(1) Depth to groundwater measured from top of well casing.				

TABLE 2
Cumulative Monitoring Well Analytical Data
Jordan Ranch Monitoring Wells

Well ID	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Napthalene (ug/L)
MW-1	12/6/2005	NA	64	2	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5
	4/10/2008	NA	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA
	1/10/2012	<50	<50	<1	1.1	1.1	2.4	<4	NA
	4/30/2012	<50	<50	<0.5	<0.5	<0.5	<1	<0.5	NA
	7/26/2012	<50	<50	<0.5	<0.5	<0.5	<1	<0.5	NA
	10/4/2012	<50	<50	<0.5	<0.5	<0.5	<1	<0.5	<1
	02/22/13	<51	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
	11/22/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
	3/28/2014	<54	<50	<0.50	<0.50	<0.50	<1	<0.5	<1
6/18/2014	<50	<0.50	<0.50	<1.0	<0.50	<1	<0.5	<1	
MW-2	12/6/2005	NA	3,400	470	<25	55	120	800	60
	7/26/2006	150	650	130	<0.5	<0.5	<0.5	510	15
	4/10/2008	NA	8,700	1,600	350	370	790	810	NA
	8/24/2010	<50	15,000	780	93	1,200	2,600	170	NA
	1/10/2012	1,100	4,200	32	10	210	337	<4	NA
	4/30/2012	620	4,100	14	10	340	660	21	NA
	7/26/2012	1,200	15,000	73	71	980	1,900	260	NA
	10/4/2012	250	1,300	16	3	150	120	11	46
	02/22/13	340	4,200	12	7.8	320	590	30	120
	11/22/2013	<50	1,000	1.4	1.9	13	36	1.7	56
	3/28/2014	150	1,300	<0.50	<0.50	33	38	<0.5	17
6/18/2014	140	790	<0.50	<0.5	22	22	0.51	9.9	
MW-3	12/6/2005	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5
	4/10/2008	NA	430	45	34	22	90	<0.5	NA
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA
	1/10/2012	Well inadvertently covered by grading operations							
	12/6/2005	NA	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	<0.5
	4/10/2008	NA	830	29	19	16	54	1,200	NA
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	80	NA
	1/10/2012	Obstruction in well casing							

Well ID	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Napthalene (ug/L)
MW-4	4/30/2012	<50	<50	<0.5	<0.5	<0.5	<1.0	14	NA
	7/26/2012	<50	<50	<0.5	<0.5	<0.5	<1.0	14	NA
	10/4/2012	<50	<50	<0.5	<0.5	<0.5	<1.0	3.9	<1
	02/22/13	<50	<50	<0.50	<0.50	<0.50	<1.0	6.3	<1.0
	11/22/2013	<50	<50	<0.50	<0.50	2.4	6.7	2.9	<1.0
	3/28/2014	<51	<50	<0.50	<0.50	<0.50	<1	5	<1
	6/18/2014	<50	<50	<0.50	<0.50	<0.50	<1	6.4	<1
MW-5	12/6/2005	NA	53,000	13,000	1,300	930	4,400	7,000	560
	7/26/2006	560	15,000	4,100	580	200	870	2,200	130
	4/10/2008	NA	66,000	24,000	7,600	2,200	9,200	<130	NA
	8/24/2010	<50	74,000	7,500	11,000	2,700	13,000	100	NA
	1/10/2012	2,100	60,000	1,600	3,700	1,800	5,400	<4	NA
	4/30/2012	2,600	37,000	880	2,500	3,200	15,000	140	NA
	7/26/2012	2,200	45,000	940	2,300	3,300	14,000	290	NA
	10/4/2012	2,100	29,000	750	1,500	2,400	760	140	690
	02/22/13	1,100	30,000	710	1,200	2,400	8,800	<25	680
	11/22/2013	96 ¹	16,000	290	340	2,300	4,000	62	610
	3/28/2014	1,700	26,000	150	240	2,300	5,700	38	640
6/18/2014	1,400	19,000	110	160	1,900	440	33	520	
MW-6A	11/22/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
	3/28/2014	<53	<50	<0.50	<0.50	<0.50	<1	<0.50	<1
	6/18/2014	<50	<50	<0.50	<0.50	<0.50	<1	<0.5	<1
MW-6B	11/22/2013	<50	160	<0.50	1.0	6.0	16	<0.50	3.0
	3/28/2014	<50	93	<0.50	<0.50	<0.50	<1	<0.50	1.1
	6/18/2014	<50	<50	<0.50	<0.50	<0.50	<1	<0.5	<1
MW-7A	11/22/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	5.4	<1.0
	3/28/2014	<50	<50	<0.50	<0.50	<0.50	<1	3.9	<1
	6/18/2014	<50	<50	<0.50	<0.50	<0.50	<1	3.4	<1
MW-7B	11/22/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	7.2	<1.0
	3/28/2014	<52	<50	<0.50	<0.50	<0.50	<1	5.4	<1
	6/18/2014	<50	<50	<0.50	<0.50	<0.50	<1	3.6	<1

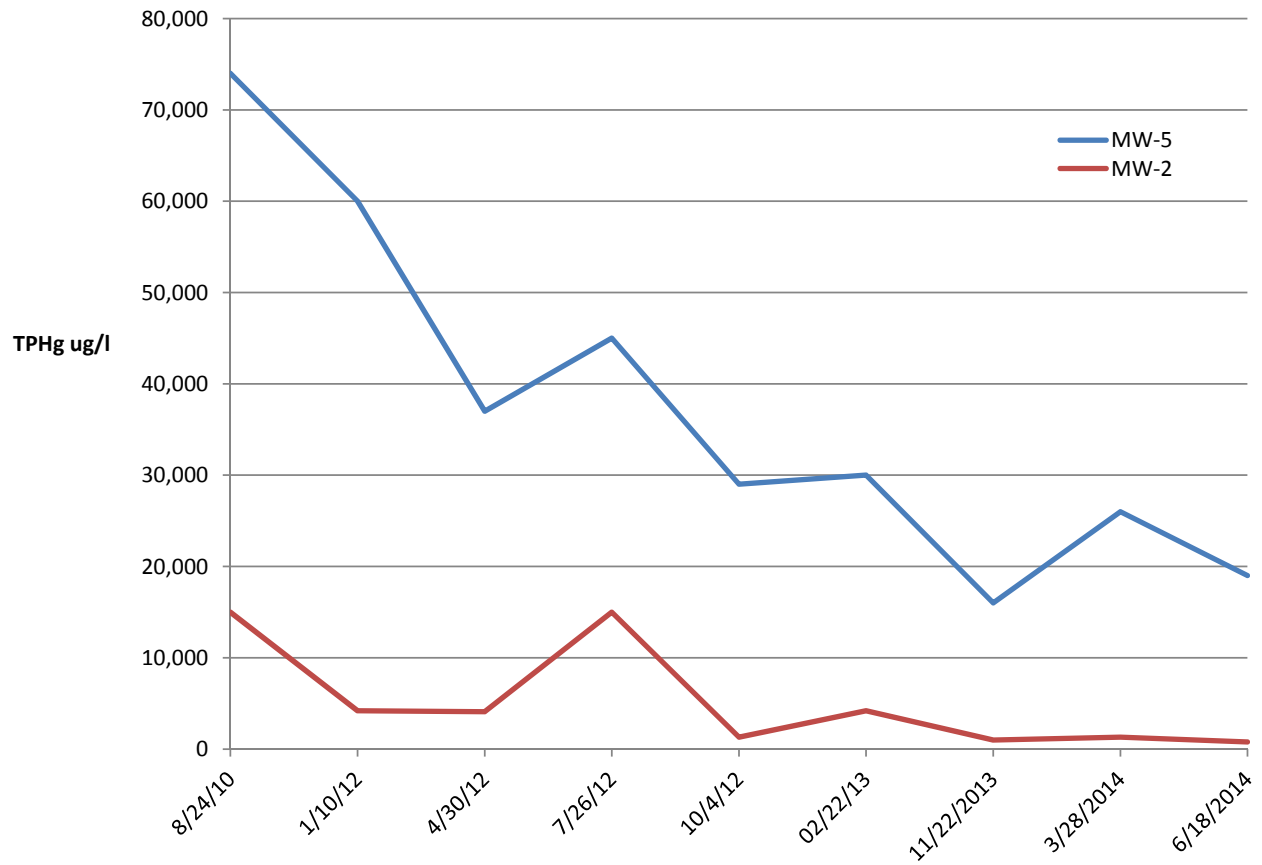
NOTES:
(1) Represents C10-C11, which overlaps with TPHg range. Carbon Chain breakdown indicates no diesel. Reported carbon ranges are weathered gasoline based on carbon chain breakdown analysis.

— Groundwater remediation and soil excavation completed Fall 2011.

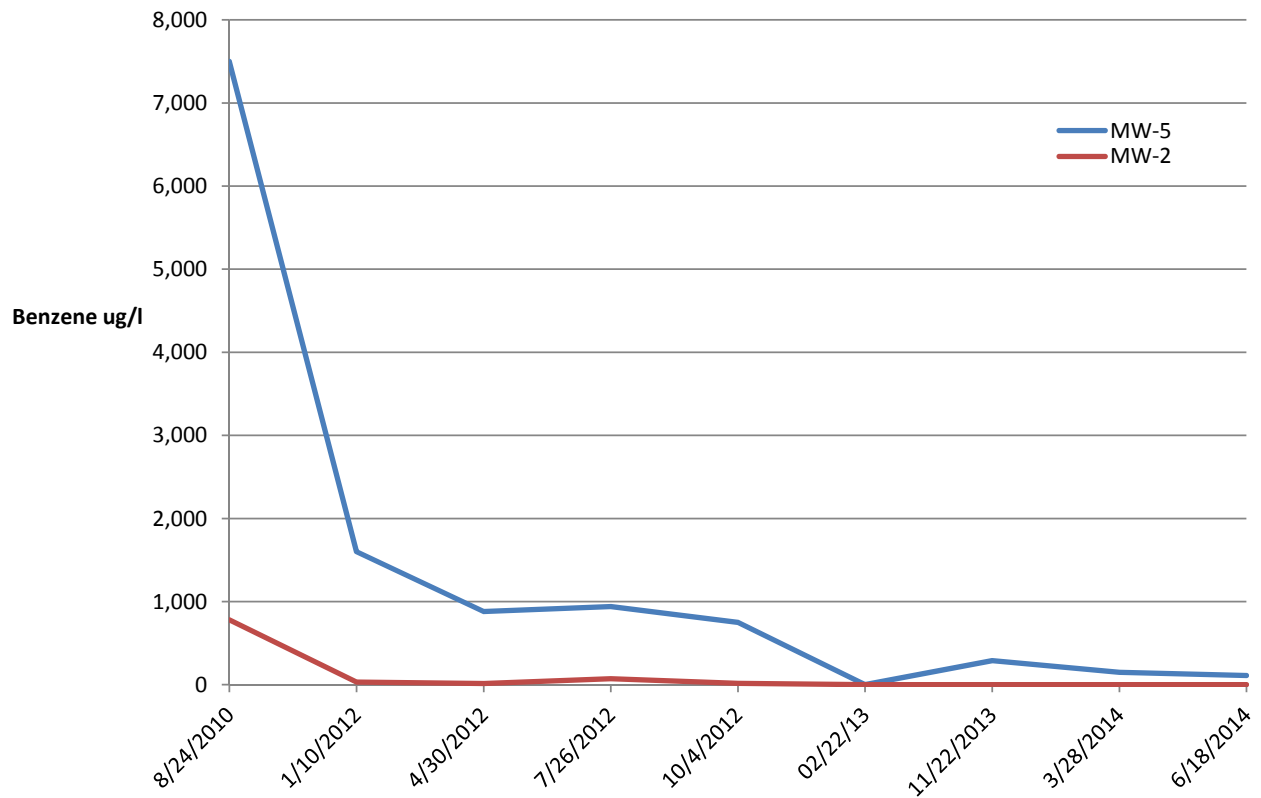
CHARTS

- Chart 1 – TPHg Trendline**
- Chart 2 – Benzene Trendline**
- Chart 3 – MTBE Trendline**

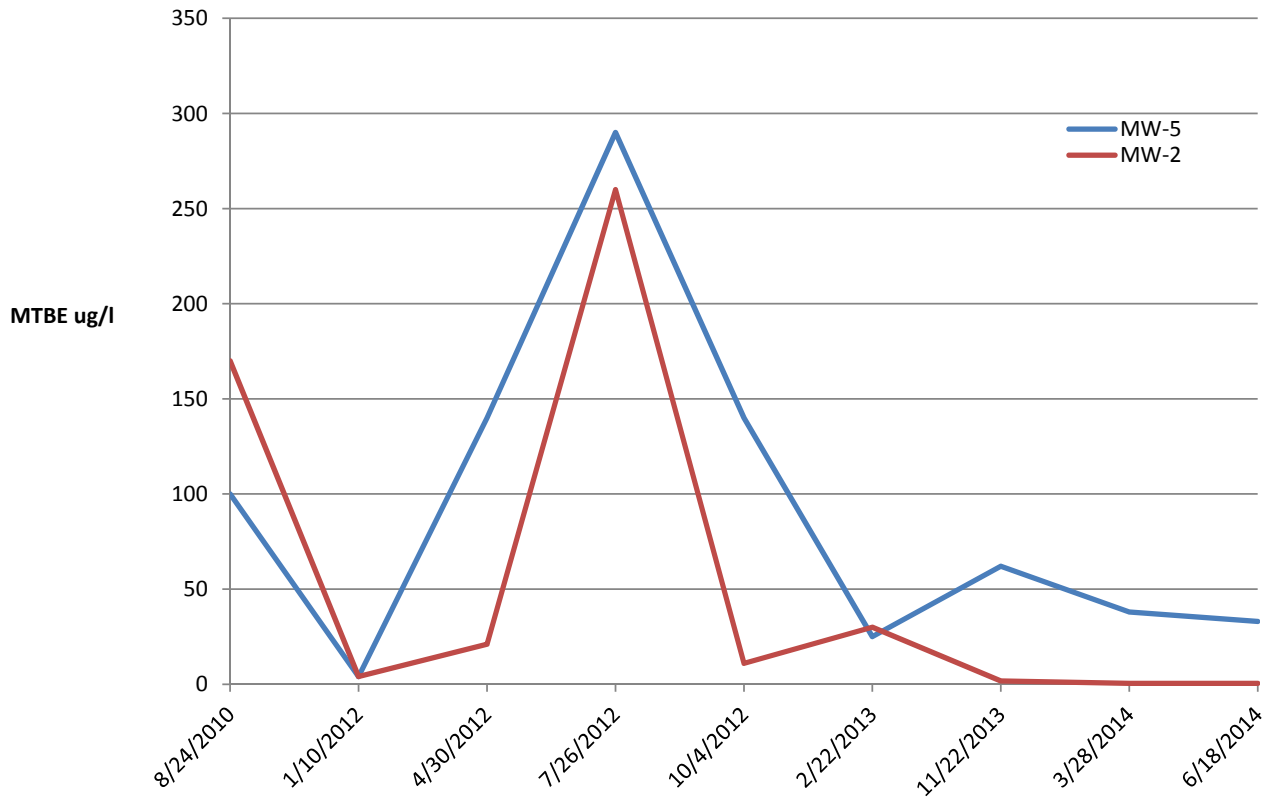
TPHg in Groundwater Since Implementation of Soil and Groundwater Remediation



Benzene in Groundwater Since Implementation of Soil and Groundwater Remediation



MTBE in Groundwater Since Implementation of Soil and Groundwater Remediation



Monitoring Well Sampling Logs

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>	Well ID	MW-1						
Project No. <u>7828.000.001</u>								
Location: <u>Fallon Rd. Dublin, CA</u>								
Technician: <u>Matt Miller</u>								
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample								
WELL SECURITY		Date 6/18/2014						
Well Box Set in Concrete? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Comments							
Box Cover Equipped With Bolts and Gasket? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Well Casing Equipped With Well Seal and Lock? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date						
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter <u>2"</u>	Free Product Measurement							
DTW (fbtoc) <u>8.5</u>	(Enter measurements for wells with free product history)							
BOC (fbtoc) <u>29.4</u>	Enter "0.0" if no measurable free product →	WCV Factors						
WC (f) <u>20.9</u>	DTFP (fbtoc) _____	2" = 0.17						
WCV (gal) <u>3.6</u>	DTW (fbtoc) _____	4" = 0.66						
3 X WCV (Purge Vol) <u>10.8</u>	FPT (ft) _____	6" = 1.50						
PURGING, SAMPLING AND DECON EQUIPMENT		Date						
Purging: <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input checked="" type="checkbox"/> Subm. Pump	Comments							
Sampling: <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other								
Decon: Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: _____								
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date						
Drums Onsite Arrival <u>0</u>	Drums All Labeled? Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>							
Drums Used This Event <u>1.5</u>	Drums Leaking? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons						
Total Drums Onsite Now <u>0.5</u>	Purge Water Processed Through GWTS? Yes <input type="checkbox"/> No <input type="checkbox"/>							
PHYSICAL PARAMETERS		Date						
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery
11:38am	1	22.46	7.48	1.23				
11:45am	7	22.03	7.36	1.27				
11:49am	11	19.85	7.47	1.25				
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers	8	VOA's	2	1-liter Ambers		500ml Plastic		
Preservative:	HCl by Lab for VOA's Only / Ice							
Analysis:	TPH-g, TPH-d, m.o., VOCs							
Laboratory/TAT:	Test America, Pleasanton							

DTW = Depth to Water

fbtoc = feet below top of casing

BOC = Bottom of Well Casing

WC = Water Column Height

DTFP = Depth to Free Product

WCV = Water Column Volume (gallons) = WC X WCV Factor

FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>	Well ID	MW-2						
Project No. <u>7828.000.001</u>								
Location: <u>Fallon Rd. Dublin, CA</u>								
Technician: <u>Matt Miller</u>								
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample								
WELL SECURITY		Date 6/18/2014						
Well Box Set in Concrete? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Comments							
Box Cover Equipped With Bolts and Gasket? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Well Casing Equipped With Well Seal and Lock? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date						
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter <u>2"</u>	Free Product Measurement							
DTW (fbtoc) <u>10.66</u>	(Enter measurements for wells with free product history)							
BOC (fbtoc) <u>29.6</u>	Enter "0.0" if no measurable free product →	WCV Factors						
WC (f) <u>18.9</u>	DTFP (fbtoc) _____	2" = 0.17						
WCV (gal) <u>3.2</u>	DTW (fbtoc) _____	4" = 0.66						
3 X WCV (Purge Vol) <u>9.7</u>	FPT (ft) _____	6" = 1.50						
PURGING, SAMPLING AND DECON EQUIPMENT		Date						
Purging: <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input checked="" type="checkbox"/> Subm. Pump	Comments							
Sampling: <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other								
Decon: Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: _____								
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date						
Drums Onsite Arrival <u>0</u>	Drums All Labeled? Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>							
Drums Used This Event <u>1.5</u>	Drums Leaking? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons						
Total Drums Onsite Now <u>0.5</u>	Purge Water Processed Through GWTS? Yes <input type="checkbox"/> No <input type="checkbox"/>							
PHYSICAL PARAMETERS		Date						
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery
1:15pm	1	24.12	7.52	1.31				
1:18pm	5	21.4	7.69	1.28				
1:25pm	10	23.2	7.6	1.3				
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers	<u>8</u>	VOA's	<u>2</u>	1-liter Ambers		500ml Plastic		
Preservative:	HCl by Lab for VOA's Only / Ice							
Analysis:	TPH-g, TPH-d, m.o., VOCs							
Laboratory/TAT:	Test America, Pleasanton							

DTW = Depth to Water

fbtoc = feet below top of casing

BOC = Bottom of Well Casing

WC = Water Column Height

DTFP = Depth to Free Product

WCV = Water Column Volume (gallons) = WC X WCV Factor

FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u> Project No. <u>7828.000.001</u> Location: <u>Fallon Rd. Dublin, CA</u> Technician: <u>Matt Miller</u> Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample	Well ID	MW-4
WELL SECURITY		Date
		6/18/2014
Well Box Set in Concrete? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Comments	
Box Cover Equipped With Bolts and Gasket? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Well Casing Equipped With Well Seal and Lock? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other		
Well Diameter <u>2"</u>	Free Product Measurement	
DTW (fbtoc) <u>10.6</u>	(Enter measurements for wells with free product history)	
BOC (fbtoc) <u>27.9</u>	Enter "0.0" if no measurable free product →	WCV Factors
WC (f) <u>17.3</u>	DTFP (fbtoc) _____	2" = 0.17
WCV (gal) <u>2.9</u>	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol) <u>8.7</u>	FPT (ft) _____	6" = 1.50
PURGING, SAMPLING AND DECON EQUIPMENT		Date
Purging: <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input checked="" type="checkbox"/> Subm. Pump	Comments	
Sampling: <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other		
Decon: Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Decon Product <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: _____		
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date
Drums Onsite Arrival <u>0</u>	Drums All Labeled? Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>	
Drums Used This Event <u>1.5</u>	Drums Leaking? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons
Total Drums Onsite Now <u>0.5</u>	Purge Water Processed Through GWTS? Yes <input type="checkbox"/> No <input type="checkbox"/>	
PHYSICAL PARAMETERS		Date
Time	Volume Purged	Temp (C degrees)
pH	EC	Redox
DO	DTW	80% Recovery
2:50pm	1	22.14
3:05pm	4	21.43
3:20pm	9	23.32
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.		
LABORATORY ANALYSIS		
Number/Type Containers	<u>8</u>	VOA's
Preservative:	<u>2</u>	1-liter Ambers
Analysis:		500ml Plastic
Laboratory/TAT:	HCl by Lab for VOA's Only / Ice	
	TPH-g, TPH-d, m.o., VOCs	
	Test America, Pleasanton	

DTW = Depth to Water

fbtoc = feet below top of casing

BOC = Bottom of Well Casing

WC = Water Column Height

DTFP = Depth to Free Product

WCV = Water Column Volume (gallons) = WC X WCV Factor

FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: Jordan Ranch	Well ID	MW-5
Project No. 7828.000.001		
Location: Fallon Rd. Dublin, CA		
Technician: Matt Miller		
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY		Date	6/18/2014
Well Box Set in Concrete?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Well Casing Equipped With Well Seal and Lock?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date	
Well Type	<input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other		
Well Diameter	2"	Free Product Measurement	
DTW (fbtoc)	9.16	(Enter measurements for wells with free product history)	
BOC (fbtoc)	29.4	Enter "0.0" if no measurable free product →	
WC (f)	20.24	DTFP (fbtoc) _____	WCV Factors
WCV (gal)	3,44	DTW (fbtoc) _____	2" = 0.17
3 X WCV (Purge Vol)	10.3	FPT (ft) _____	4" = 0.66
			6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT		Date	
Purging:	<input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input checked="" type="checkbox"/> Subm. Pump	Comments	
Sampling:	<input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other		
Decon:	Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Decon Product <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: _____		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	
Drums Onsite Arrival	0	Drums All Labeled?	Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>
Drums Used This Event	1.5	Drums Leaking?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Total Drums Onsite Now	0.5	Purge Water Processed Through GWTS?	Yes <input type="checkbox"/> No <input type="checkbox"/>

PHYSICAL PARAMETERS								Date	
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery	
1:55pm	1	26.51	7.04	1.32					
2:12pm	5	22.3	7.23	1.34					
2:25pm	10	24.69	7.15	1.36					

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS	
Number/Type Containers	8 VOA's 2 1-liter Ambers 500ml Plastic
Preservative:	HCl by Lab for VOA's Only / Ice
Analysis:	TPH-g, TPH-d, m.o., VOCs
Laboratory/TAT:	Test America, Pleasanton

DTW = Depth to Water fbtoc = feet below top of casing
 BOC = Bottom of Well Casing WC = Water Column Height
 DTFP = Depth to Free Product WCV = Water Column Volume (gallons) = WC X WCV Factor
 FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>	Well ID	MW-6A
Project No. <u>7828.000.001</u>		
Location: <u>Fallon Rd. Dublin, CA</u>		
Technician: <u>Matt Miller</u>		
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY		Date	6/19/2014
Well Box Set in Concrete?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Well Casing Equipped With Well Seal and Lock?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date	
Well Type	<input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other		
Well Diameter	2"	Free Product Measurement	
DTW (fbtoc)	12.6	(Enter measurements for wells with free product history)	
BOC (fbtoc)	19'	Enter "0.0" if no measurable free product →	
WC (f)	6.4	DTFP (fbtoc) _____	WCV Factors
WCV (gal)	1.08	DTW (fbtoc) _____	2" = 0.17
3 X WCV (Purge Vol)	3.2	FPT (ft) _____	4" = 0.66
			6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT		Date	
Purging:	<input type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input checked="" type="checkbox"/> Subm. Pump	Comments	
Sampling:	<input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other _____		
Decon:	Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: _____		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	
Drums Onsite Arrival	0	Drums All Labeled? Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>	
Drums Used This Event	1.5	Drums Leaking? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons
Total Drums Onsite Now	0.5	Purge Water Processed Through GWTS?	Yes <input type="checkbox"/> No <input type="checkbox"/>

PHYSICAL PARAMETERS								Date	
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery	
7:55am	1	18.36	7.42	2.5					
8:00am	4	18.72	7.43	2.19					

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS					
Number/Type Containers	8	VOA's	2	1-liter Ambers	500ml Plastic
Preservative:	HCl by Lab for VOA's Only / Ice				
Analysis:	TPH-g, TPH-d, m.o., VOCs				
Laboratory/TAT:	Test America, Pleasanton				

DTW = Depth to Water fbtoc = feet below top of casing
 BOC = Bottom of Well Casing WC = Water Column Height
 DTFP = Depth to Free Product WCV = Water Column Volume (gallons) = WC X WCV Factor
 FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: Jordan Ranch	Well ID	MW-6B
Project No. 7828.000.001		
Location: Fallon Rd. Dublin, CA		
Technician: Matt Miller		
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY			Date	6/19/2014
Well Box Set in Concrete?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Well Casing Equipped With Well Seal and Lock?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

WELL CONSTRUCTION AND WATER LEVEL DETAILS				Date	
Well Type	<input checked="" type="checkbox"/> Monitoring		<input type="checkbox"/> Extraction Well with Pump		<input type="checkbox"/> Other
Well Diameter	2"	Free Product Measurement			
DTW (fbtoc)	12.33	(Enter measurements for wells with free product history)			
BOC (fbtoc)	29.9	Enter "0.0" if no measurable free product →			WCV Factors
WC (f)	17.6	DTFP (fbtoc) _____		2" =	0.17
WCV (gal)	2.98	DTW (fbtoc) _____		4" =	0.66
3 X WCV (Purge Vol)	9	FPT (ft)		6" =	1.50

PURGING, SAMPLING AND DECON EQUIPMENT				Date	
Purging:	<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump	<input checked="" type="checkbox"/> Subm. Pump	Comments	
	Sampling:	<input checked="" type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump		
Decon:	Was purge pump decontaminated before and after this use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
	Decon Product <input checked="" type="checkbox"/> TSP/Alconox			Decon Rinse: _____	

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)				Date	
Drums Onsite Arrival	0	Drums All Labeled?	Yes <input type="checkbox"/> No (Attach Inventory) <input checked="" type="checkbox"/>		
Drums Used This Event	1.5	Drums Leaking?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Gallons
Total Drums Onsite Now	0.5	Purge Water Processed Through GWTS?		Yes <input type="checkbox"/> No <input type="checkbox"/>	

PHYSICAL PARAMETERS								Date	
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery	
8:58am	1	22.27	7.78	1.22					
9:27am	5	23.8	7.75	1.25					
9:35am	9	21.69	7.84	1.23					

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS					
Number/Type Containers	8	VOA's	2	1-liter Ambers	500ml Plastic
Preservative:	HCl by Lab for VOA's Only / Ice				
Analysis:	TPH-g, TPH-d, m.o., VOCs				
Laboratory/TAT:	Test America, Pleasanton				

DTW = Depth to Water
 BOC = Bottom of Well Casing
 DTFP = Depth to Free Product
 FPT = Free Product Thickness

fbtoc = feet below top of casing
 WC = Water Column Height
 WCV = Water Column Volume (gallons) = WC X WCV Factor

MONITORING WELL FIELD SAMPLING LOG



Project: Jordan Ranch	Well ID	MW-7A
Project No. 7828.000.001		
Location: Fallon Rd. Dublin, CA		
Technician: Matt Miller		
Activity: <input checked="" type="checkbox"/> Quarterly Sampling	<input type="checkbox"/> Develop/Sample	

WELL SECURITY			Date	6/19/2014
Well Box Set in Concrete?	Yes <input checked="" type="checkbox"/>	No	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes <input checked="" type="checkbox"/>	No		
Well Casing Equipped With Well Seal and Lock?	Yes	No <input checked="" type="checkbox"/>		

WELL CONSTRUCTION AND WATER LEVEL DETAILS				Date	
Well Type	<input checked="" type="checkbox"/> Monitoring	Extraction Well with Pump	<input type="checkbox"/> Other		
Well Diameter	2"	Free Product Measurement			
DTW (fbtoc)	8.25	(Enter measurements for wells with free product history)			
BOC (fbtoc)	19'	Enter "0.0" if no measurable free product →		WCV Factors	
WC (f)	10.75	DTFP (fbtoc)	_____	2" =	0.17
WCV (gal)	1.82	DTW (fbtoc)	_____	4" =	0.66
3 X WCV (Purge Vol)	5.5	FPT (ft)	_____	6" =	1.50

PURGING, SAMPLING AND DECON EQUIPMENT					Date	
Purging:	<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump	<input checked="" type="checkbox"/> Subm. Pump	Comments		
Sampling:	<input checked="" type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump	<input type="checkbox"/> Subm. Pump			
Decon:	Was purge pump decontaminated before and after this use?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	Decon Product	<input checked="" type="checkbox"/> TSP/Alconox	Decon Rinse:			

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)						Date	
Drums Onsite Arrival	0	Drums All Labeled?	Yes	No (Attach Inventory)	<input checked="" type="checkbox"/>		
Drums Used This Event	1.5	Drums Leaking?	Yes	No	<input checked="" type="checkbox"/>	Gallons	
Total Drums Onsite Now	0.5	Purge Water Processed Through GWTS?	Yes	No			

PHYSICAL PARAMETERS								Date	
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery	
10:40am	1	23.8	7.35	2.1					
10:53am	6	21.95	7.47	2.33					

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS					
Number/Type Containers	8	VOA's	2	1-liter Ambers	500ml Plastic
Preservative:	HCl by Lab for VOA's Only / Ice				
Analysis:	TPH-g, TPH-d, m.o., VOCs				
Laboratory/TAT:	Test America, Pleasanton				

DTW = Depth to Water
 BOC = Bottom of Well Casing
 DTFP = Depth to Free Product
 FPT = Free Product Thickness

fbtoc = feet below top of casing
 WC = Water Column Height
 WCV = Water Column Volume (gallons) = WC X WCV Factor

MONITORING WELL FIELD SAMPLING LOG



Project:	Jordan Ranch	Well ID	MW-7B
Project No.	7828.000.001		
Location:	Fallon Rd. Dublin, CA		
Technician:	Matt Miller		
Activity:	<input checked="" type="checkbox"/> Quarterly Sampling	<input type="checkbox"/> Develop/Sample	

WELL SECURITY			Date	6/19/2014
Well Box Set in Concrete?	Yes <input checked="" type="checkbox"/>	No	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes <input checked="" type="checkbox"/>	No		
Well Casing Equipped With Well Seal and Lock?	Yes	No <input checked="" type="checkbox"/>		

WELL CONSTRUCTION AND WATER LEVEL DETAILS			Date	
Well Type	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Extraction Well with Pump	<input type="checkbox"/> Other	
Well Diameter	2"	Free Product Measurement		
DTW (fbtoc)	7.58	(Enter measurements for wells with free product history)		
BOC (fbtoc)	30'	Enter "0.0" if no measurable free product →		
WC (f)	22.42	DTFP (fbtoc) _____	2" =	0.17
WCV (gal)	3.81	DTW (fbtoc) _____	4" =	0.66
3 X WCV (Purge Vol)	11.43	FPT (ft)	6" =	1.50

PURGING, SAMPLING AND DECON EQUIPMENT				Date	
Purging:	<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump	<input checked="" type="checkbox"/> Subm. Pump	Comments	
Sampling:	<input checked="" type="checkbox"/> Disposable Bailer	<input type="checkbox"/> 12-V Pump	<input type="checkbox"/> Subm. Pump		
Decon:	Was purge pump decontaminated before and after this use?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	Decon Product	<input checked="" type="checkbox"/> TSP/Alconox	Decon Rinse:		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)				Date	
Drums Onsite Arrival	0	Drums All Labeled?	Yes	No (Attach Inventory)	<input checked="" type="checkbox"/>
Drums Used This Event	1.5	Drums Leaking?	Yes	No	<input checked="" type="checkbox"/>
Total Drums Onsite Now	0.5	Purge Water Processed Through GWTS?			
				Yes	No

PHYSICAL PARAMETERS							Date	
Time	Volume Purged	Temp (C degrees)	pH	EC	Redox	DO	DTW	80% Recovery
11:20am	1	23.07	7.47	1.71				
11:25am	5	21.25	7.49	1.79				
11:35am	11	21.06	7.52	1.82				

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS					
Number/Type Containers	8	VOA's	2	1-liter Ambers	500ml Plastic
Preservative:	HCl by Lab for VOA's Only / Ice				
Analysis:	TPH-g, TPH-d, m.o., VOCs				
Laboratory/TAT:	Test America, Pleasanton				

- DTW = Depth to Water
- BOC = Bottom of Well Casing
- DTFP = Depth to Free Product
- FPT = Free Product Thickness
- fbtoc = feet below top of casing
- WC = Water Column Height
- WCV = Water Column Volume (gallons) = WC X WCV Factor

**Groundwater Laboratory Analytical Report
and Chain-of-Custody Record**

7828.000.001
July 15, 2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
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Tel: (925)484-1919

TestAmerica Job ID: 720-58120-1
Client Project/Site: Jordan Ranch

For:
Engeo, Inc.
2213 Plaza Drive
Rocklin, California 95765

Attn: Ms. Morgan Johnson



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6/23/2014 5:39:39 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Job ID: 720-58120-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58120-1

Comments

No additional comments.

Receipt

The samples were received on 6/19/2014 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.7° C and 1.9° C.

Except:

Received 8 HCL voas and no additional test were selected besides VOCs+GRO.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-1

Lab Sample ID: 720-58120-1

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 720-58120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.51		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	4.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	2.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	22		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	6.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	9.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	17		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	49		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	19		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	22		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	790		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	140		50		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: MW-4

Lab Sample ID: 720-58120-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 720-58120-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	33		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Benzene	110		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1900		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	90		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Naphthalene	520		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	250		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Toluene	160		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1500		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	370		25		ug/L	50		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-5 (Continued)

Lab Sample ID: 720-58120-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	4400		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	19000		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1400		50		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: MW-6A

Lab Sample ID: 720-58120-5

No Detections.

Client Sample ID: MW-6B

Lab Sample ID: 720-58120-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-7A

Lab Sample ID: 720-58120-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-7B

Lab Sample ID: 720-58120-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-1
Date Collected: 06/18/14 12:05
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/20/14 17:16	1
Acetone	ND		50		ug/L			06/20/14 17:16	1
Benzene	ND		0.50		ug/L			06/20/14 17:16	1
Dichlorobromomethane	ND		0.50		ug/L			06/20/14 17:16	1
Bromobenzene	ND		1.0		ug/L			06/20/14 17:16	1
Chlorobromomethane	ND		1.0		ug/L			06/20/14 17:16	1
Bromoform	ND		1.0		ug/L			06/20/14 17:16	1
Bromomethane	ND		1.0		ug/L			06/20/14 17:16	1
2-Butanone (MEK)	ND		50		ug/L			06/20/14 17:16	1
n-Butylbenzene	ND		1.0		ug/L			06/20/14 17:16	1
sec-Butylbenzene	ND		1.0		ug/L			06/20/14 17:16	1
tert-Butylbenzene	ND		1.0		ug/L			06/20/14 17:16	1
Carbon disulfide	ND		5.0		ug/L			06/20/14 17:16	1
Carbon tetrachloride	ND		0.50		ug/L			06/20/14 17:16	1
Chlorobenzene	ND		0.50		ug/L			06/20/14 17:16	1
Chloroethane	ND		1.0		ug/L			06/20/14 17:16	1
Chloroform	ND		1.0		ug/L			06/20/14 17:16	1
Chloromethane	ND		1.0		ug/L			06/20/14 17:16	1
2-Chlorotoluene	ND		0.50		ug/L			06/20/14 17:16	1
4-Chlorotoluene	ND		0.50		ug/L			06/20/14 17:16	1
Chlorodibromomethane	ND		0.50		ug/L			06/20/14 17:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:16	1
1,3-Dichloropropane	ND		1.0		ug/L			06/20/14 17:16	1
1,1-Dichloropropene	ND		0.50		ug/L			06/20/14 17:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/20/14 17:16	1
Ethylene Dibromide	ND		0.50		ug/L			06/20/14 17:16	1
Dibromomethane	ND		0.50		ug/L			06/20/14 17:16	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/20/14 17:16	1
1,1-Dichloroethane	ND		0.50		ug/L			06/20/14 17:16	1
1,2-Dichloroethane	ND		0.50		ug/L			06/20/14 17:16	1
1,1-Dichloroethene	ND		0.50		ug/L			06/20/14 17:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 17:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 17:16	1
1,2-Dichloropropane	ND		0.50		ug/L			06/20/14 17:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 17:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 17:16	1
Ethylbenzene	ND		0.50		ug/L			06/20/14 17:16	1
Hexachlorobutadiene	ND		1.0		ug/L			06/20/14 17:16	1
2-Hexanone	ND		50		ug/L			06/20/14 17:16	1
Isopropylbenzene	ND		0.50		ug/L			06/20/14 17:16	1
4-Isopropyltoluene	ND		1.0		ug/L			06/20/14 17:16	1
Methylene Chloride	ND		5.0		ug/L			06/20/14 17:16	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/14 17:16	1
Naphthalene	ND		1.0		ug/L			06/20/14 17:16	1
N-Propylbenzene	ND		1.0		ug/L			06/20/14 17:16	1
Styrene	ND		0.50		ug/L			06/20/14 17:16	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 17:16	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-1

Lab Sample ID: 720-58120-1

Date Collected: 06/18/14 12:05

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 17:16	1
Tetrachloroethene	ND		0.50		ug/L			06/20/14 17:16	1
Toluene	ND		0.50		ug/L			06/20/14 17:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/20/14 17:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/20/14 17:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/20/14 17:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/20/14 17:16	1
Trichloroethene	ND		0.50		ug/L			06/20/14 17:16	1
Trichlorofluoromethane	ND		1.0		ug/L			06/20/14 17:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/20/14 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/20/14 17:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/20/14 17:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/20/14 17:16	1
Vinyl acetate	ND		10		ug/L			06/20/14 17:16	1
Vinyl chloride	ND		0.50		ug/L			06/20/14 17:16	1
Xylenes, Total	ND		1.0		ug/L			06/20/14 17:16	1
2,2-Dichloropropane	ND		0.50		ug/L			06/20/14 17:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/20/14 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		06/20/14 17:16	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		06/20/14 17:16	1
Toluene-d8 (Surr)	95		70 - 130		06/20/14 17:16	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 19:39	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		06/20/14 11:13	06/20/14 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5	06/20/14 11:13	06/20/14 19:39	1
p-Terphenyl	95		31 - 150	06/20/14 11:13	06/20/14 19:39	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-2
Date Collected: 06/18/14 13:45
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.51		0.50		ug/L			06/20/14 17:45	1
Acetone	ND		50		ug/L			06/20/14 17:45	1
Benzene	ND		0.50		ug/L			06/20/14 17:45	1
Dichlorobromomethane	ND		0.50		ug/L			06/20/14 17:45	1
Bromobenzene	ND		1.0		ug/L			06/20/14 17:45	1
Chlorobromomethane	ND		1.0		ug/L			06/20/14 17:45	1
Bromoform	ND		1.0		ug/L			06/20/14 17:45	1
Bromomethane	ND		1.0		ug/L			06/20/14 17:45	1
2-Butanone (MEK)	ND		50		ug/L			06/20/14 17:45	1
n-Butylbenzene	4.8		1.0		ug/L			06/20/14 17:45	1
sec-Butylbenzene	2.5		1.0		ug/L			06/20/14 17:45	1
tert-Butylbenzene	ND		1.0		ug/L			06/20/14 17:45	1
Carbon disulfide	ND		5.0		ug/L			06/20/14 17:45	1
Carbon tetrachloride	ND		0.50		ug/L			06/20/14 17:45	1
Chlorobenzene	ND		0.50		ug/L			06/20/14 17:45	1
Chloroethane	ND		1.0		ug/L			06/20/14 17:45	1
Chloroform	ND		1.0		ug/L			06/20/14 17:45	1
Chloromethane	ND		1.0		ug/L			06/20/14 17:45	1
2-Chlorotoluene	ND		0.50		ug/L			06/20/14 17:45	1
4-Chlorotoluene	ND		0.50		ug/L			06/20/14 17:45	1
Chlorodibromomethane	ND		0.50		ug/L			06/20/14 17:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/20/14 17:45	1
1,3-Dichloropropane	ND		1.0		ug/L			06/20/14 17:45	1
1,1-Dichloropropene	ND		0.50		ug/L			06/20/14 17:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/20/14 17:45	1
Ethylene Dibromide	ND		0.50		ug/L			06/20/14 17:45	1
Dibromomethane	ND		0.50		ug/L			06/20/14 17:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/20/14 17:45	1
1,1-Dichloroethane	ND		0.50		ug/L			06/20/14 17:45	1
1,2-Dichloroethane	ND		0.50		ug/L			06/20/14 17:45	1
1,1-Dichloroethene	ND		0.50		ug/L			06/20/14 17:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 17:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 17:45	1
1,2-Dichloropropane	ND		0.50		ug/L			06/20/14 17:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 17:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 17:45	1
Ethylbenzene	22		0.50		ug/L			06/20/14 17:45	1
Hexachlorobutadiene	ND		1.0		ug/L			06/20/14 17:45	1
2-Hexanone	ND		50		ug/L			06/20/14 17:45	1
Isopropylbenzene	6.2		0.50		ug/L			06/20/14 17:45	1
4-Isopropyltoluene	ND		1.0		ug/L			06/20/14 17:45	1
Methylene Chloride	ND		5.0		ug/L			06/20/14 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/14 17:45	1
Naphthalene	9.9		1.0		ug/L			06/20/14 17:45	1
N-Propylbenzene	17		1.0		ug/L			06/20/14 17:45	1
Styrene	ND		0.50		ug/L			06/20/14 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 17:45	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-2

Lab Sample ID: 720-58120-2

Date Collected: 06/18/14 13:45

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 17:45	1
Tetrachloroethene	ND		0.50		ug/L			06/20/14 17:45	1
Toluene	ND		0.50		ug/L			06/20/14 17:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/20/14 17:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/20/14 17:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/20/14 17:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/20/14 17:45	1
Trichloroethene	ND		0.50		ug/L			06/20/14 17:45	1
Trichlorofluoromethane	ND		1.0		ug/L			06/20/14 17:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/20/14 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/20/14 17:45	1
1,2,4-Trimethylbenzene	49		0.50		ug/L			06/20/14 17:45	1
1,3,5-Trimethylbenzene	19		0.50		ug/L			06/20/14 17:45	1
Vinyl acetate	ND		10		ug/L			06/20/14 17:45	1
Vinyl chloride	ND		0.50		ug/L			06/20/14 17:45	1
Xylenes, Total	22		1.0		ug/L			06/20/14 17:45	1
2,2-Dichloropropane	ND		0.50		ug/L			06/20/14 17:45	1
Gasoline Range Organics (GRO)	790		50		ug/L			06/20/14 17:45	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		06/20/14 17:45	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		06/20/14 17:45	1
Toluene-d8 (Surr)	97		70 - 130		06/20/14 17:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		50		ug/L		06/20/14 11:13	06/20/14 20:03	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		06/20/14 11:13	06/20/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 5	06/20/14 11:13	06/20/14 20:03	1
p-Terphenyl	89		31 - 150	06/20/14 11:13	06/20/14 20:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-4
Date Collected: 06/18/14 15:25
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	6.4		0.50		ug/L			06/21/14 01:43	1
Acetone	ND		50		ug/L			06/21/14 01:43	1
Benzene	ND		0.50		ug/L			06/21/14 01:43	1
Dichlorobromomethane	ND		0.50		ug/L			06/21/14 01:43	1
Bromobenzene	ND		1.0		ug/L			06/21/14 01:43	1
Chlorobromomethane	ND		1.0		ug/L			06/21/14 01:43	1
Bromoform	ND		1.0		ug/L			06/21/14 01:43	1
Bromomethane	ND		1.0		ug/L			06/21/14 01:43	1
2-Butanone (MEK)	ND		50		ug/L			06/21/14 01:43	1
n-Butylbenzene	ND		1.0		ug/L			06/21/14 01:43	1
sec-Butylbenzene	ND		1.0		ug/L			06/21/14 01:43	1
tert-Butylbenzene	ND		1.0		ug/L			06/21/14 01:43	1
Carbon disulfide	ND		5.0		ug/L			06/21/14 01:43	1
Carbon tetrachloride	ND		0.50		ug/L			06/21/14 01:43	1
Chlorobenzene	ND		0.50		ug/L			06/21/14 01:43	1
Chloroethane	ND		1.0		ug/L			06/21/14 01:43	1
Chloroform	ND		1.0		ug/L			06/21/14 01:43	1
Chloromethane	ND		1.0		ug/L			06/21/14 01:43	1
2-Chlorotoluene	ND		0.50		ug/L			06/21/14 01:43	1
4-Chlorotoluene	ND		0.50		ug/L			06/21/14 01:43	1
Chlorodibromomethane	ND		0.50		ug/L			06/21/14 01:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/21/14 01:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/21/14 01:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/21/14 01:43	1
1,3-Dichloropropane	ND		1.0		ug/L			06/21/14 01:43	1
1,1-Dichloropropene	ND		0.50		ug/L			06/21/14 01:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/21/14 01:43	1
Ethylene Dibromide	ND		0.50		ug/L			06/21/14 01:43	1
Dibromomethane	ND		0.50		ug/L			06/21/14 01:43	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/21/14 01:43	1
1,1-Dichloroethane	ND		0.50		ug/L			06/21/14 01:43	1
1,2-Dichloroethane	ND		0.50		ug/L			06/21/14 01:43	1
1,1-Dichloroethene	ND		0.50		ug/L			06/21/14 01:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 01:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 01:43	1
1,2-Dichloropropane	ND		0.50		ug/L			06/21/14 01:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 01:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 01:43	1
Ethylbenzene	ND		0.50		ug/L			06/21/14 01:43	1
Hexachlorobutadiene	ND		1.0		ug/L			06/21/14 01:43	1
2-Hexanone	ND		50		ug/L			06/21/14 01:43	1
Isopropylbenzene	ND		0.50		ug/L			06/21/14 01:43	1
4-Isopropyltoluene	ND		1.0		ug/L			06/21/14 01:43	1
Methylene Chloride	ND		5.0		ug/L			06/21/14 01:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/14 01:43	1
Naphthalene	ND		1.0		ug/L			06/21/14 01:43	1
N-Propylbenzene	ND		1.0		ug/L			06/21/14 01:43	1
Styrene	ND		0.50		ug/L			06/21/14 01:43	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 01:43	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-4

Lab Sample ID: 720-58120-3

Date Collected: 06/18/14 15:25

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 01:43	1
Tetrachloroethene	ND		0.50		ug/L			06/21/14 01:43	1
Toluene	ND		0.50		ug/L			06/21/14 01:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/21/14 01:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/21/14 01:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/21/14 01:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/21/14 01:43	1
Trichloroethene	ND		0.50		ug/L			06/21/14 01:43	1
Trichlorofluoromethane	ND		1.0		ug/L			06/21/14 01:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/21/14 01:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/21/14 01:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/21/14 01:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/21/14 01:43	1
Vinyl acetate	ND		10		ug/L			06/21/14 01:43	1
Vinyl chloride	ND		0.50		ug/L			06/21/14 01:43	1
Xylenes, Total	ND		1.0		ug/L			06/21/14 01:43	1
2,2-Dichloropropane	ND		0.50		ug/L			06/21/14 01:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/21/14 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		06/21/14 01:43	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130		06/21/14 01:43	1
Toluene-d8 (Surr)	97		70 - 130		06/21/14 01:43	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 20:27	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		06/20/14 11:13	06/20/14 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.0004		0 - 5	06/20/14 11:13	06/20/14 20:27	1
p-Terphenyl	87		31 - 150	06/20/14 11:13	06/20/14 20:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-5
Date Collected: 06/18/14 14:40
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	33		25		ug/L			06/21/14 02:12	50
Acetone	ND		2500		ug/L			06/21/14 02:12	50
Benzene	110		25		ug/L			06/21/14 02:12	50
Dichlorobromomethane	ND		25		ug/L			06/21/14 02:12	50
Bromobenzene	ND		50		ug/L			06/21/14 02:12	50
Chlorobromomethane	ND		50		ug/L			06/21/14 02:12	50
Bromoform	ND		50		ug/L			06/21/14 02:12	50
Bromomethane	ND		50		ug/L			06/21/14 02:12	50
2-Butanone (MEK)	ND		2500		ug/L			06/21/14 02:12	50
n-Butylbenzene	ND		50		ug/L			06/21/14 02:12	50
sec-Butylbenzene	ND		50		ug/L			06/21/14 02:12	50
tert-Butylbenzene	ND		50		ug/L			06/21/14 02:12	50
Carbon disulfide	ND		250		ug/L			06/21/14 02:12	50
Carbon tetrachloride	ND		25		ug/L			06/21/14 02:12	50
Chlorobenzene	ND		25		ug/L			06/21/14 02:12	50
Chloroethane	ND		50		ug/L			06/21/14 02:12	50
Chloroform	ND		50		ug/L			06/21/14 02:12	50
Chloromethane	ND		50		ug/L			06/21/14 02:12	50
2-Chlorotoluene	ND		25		ug/L			06/21/14 02:12	50
4-Chlorotoluene	ND		25		ug/L			06/21/14 02:12	50
Chlorodibromomethane	ND		25		ug/L			06/21/14 02:12	50
1,2-Dichlorobenzene	ND		25		ug/L			06/21/14 02:12	50
1,3-Dichlorobenzene	ND		25		ug/L			06/21/14 02:12	50
1,4-Dichlorobenzene	ND		25		ug/L			06/21/14 02:12	50
1,3-Dichloropropane	ND		50		ug/L			06/21/14 02:12	50
1,1-Dichloropropene	ND		25		ug/L			06/21/14 02:12	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			06/21/14 02:12	50
Ethylene Dibromide	ND		25		ug/L			06/21/14 02:12	50
Dibromomethane	ND		25		ug/L			06/21/14 02:12	50
Dichlorodifluoromethane	ND		25		ug/L			06/21/14 02:12	50
1,1-Dichloroethane	ND		25		ug/L			06/21/14 02:12	50
1,2-Dichloroethane	ND		25		ug/L			06/21/14 02:12	50
1,1-Dichloroethene	ND		25		ug/L			06/21/14 02:12	50
cis-1,2-Dichloroethene	ND		25		ug/L			06/21/14 02:12	50
trans-1,2-Dichloroethene	ND		25		ug/L			06/21/14 02:12	50
1,2-Dichloropropane	ND		25		ug/L			06/21/14 02:12	50
cis-1,3-Dichloropropene	ND		25		ug/L			06/21/14 02:12	50
trans-1,3-Dichloropropene	ND		25		ug/L			06/21/14 02:12	50
Ethylbenzene	1900		25		ug/L			06/21/14 02:12	50
Hexachlorobutadiene	ND		50		ug/L			06/21/14 02:12	50
2-Hexanone	ND		2500		ug/L			06/21/14 02:12	50
Isopropylbenzene	90		25		ug/L			06/21/14 02:12	50
4-Isopropyltoluene	ND		50		ug/L			06/21/14 02:12	50
Methylene Chloride	ND		250		ug/L			06/21/14 02:12	50
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			06/21/14 02:12	50
Naphthalene	520		50		ug/L			06/21/14 02:12	50
N-Propylbenzene	250		50		ug/L			06/21/14 02:12	50
Styrene	ND		25		ug/L			06/21/14 02:12	50
1,1,1,2-Tetrachloroethane	ND		25		ug/L			06/21/14 02:12	50

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-5

Lab Sample ID: 720-58120-4

Date Collected: 06/18/14 14:40

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		25		ug/L			06/21/14 02:12	50
Tetrachloroethene	ND		25		ug/L			06/21/14 02:12	50
Toluene	160		25		ug/L			06/21/14 02:12	50
1,2,3-Trichlorobenzene	ND		50		ug/L			06/21/14 02:12	50
1,2,4-Trichlorobenzene	ND		50		ug/L			06/21/14 02:12	50
1,1,1-Trichloroethane	ND		25		ug/L			06/21/14 02:12	50
1,1,2-Trichloroethane	ND		25		ug/L			06/21/14 02:12	50
Trichloroethene	ND		25		ug/L			06/21/14 02:12	50
Trichlorofluoromethane	ND		50		ug/L			06/21/14 02:12	50
1,2,3-Trichloropropane	ND		25		ug/L			06/21/14 02:12	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			06/21/14 02:12	50
1,2,4-Trimethylbenzene	1500		25		ug/L			06/21/14 02:12	50
1,3,5-Trimethylbenzene	370		25		ug/L			06/21/14 02:12	50
Vinyl acetate	ND		500		ug/L			06/21/14 02:12	50
Vinyl chloride	ND		25		ug/L			06/21/14 02:12	50
Xylenes, Total	4400		50		ug/L			06/21/14 02:12	50
2,2-Dichloropropane	ND		25		ug/L			06/21/14 02:12	50
Gasoline Range Organics (GRO)	19000		2500		ug/L			06/21/14 02:12	50
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		06/21/14 02:12	50
1,2-Dichloroethane-d4 (Surr)	98		72 - 130		06/21/14 02:12	50
Toluene-d8 (Surr)	96		70 - 130		06/21/14 02:12	50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		50		ug/L		06/20/14 11:13	06/20/14 19:39	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		06/20/14 11:13	06/20/14 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5	06/20/14 11:13	06/20/14 19:39	1
p-Terphenyl	93		31 - 150	06/20/14 11:13	06/20/14 19:39	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-6A

Lab Sample ID: 720-58120-5

Date Collected: 06/19/14 08:40

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/21/14 02:40	1
Acetone	ND		50		ug/L			06/21/14 02:40	1
Benzene	ND		0.50		ug/L			06/21/14 02:40	1
Dichlorobromomethane	ND		0.50		ug/L			06/21/14 02:40	1
Bromobenzene	ND		1.0		ug/L			06/21/14 02:40	1
Chlorobromomethane	ND		1.0		ug/L			06/21/14 02:40	1
Bromoform	ND		1.0		ug/L			06/21/14 02:40	1
Bromomethane	ND		1.0		ug/L			06/21/14 02:40	1
2-Butanone (MEK)	ND		50		ug/L			06/21/14 02:40	1
n-Butylbenzene	ND		1.0		ug/L			06/21/14 02:40	1
sec-Butylbenzene	ND		1.0		ug/L			06/21/14 02:40	1
tert-Butylbenzene	ND		1.0		ug/L			06/21/14 02:40	1
Carbon disulfide	ND		5.0		ug/L			06/21/14 02:40	1
Carbon tetrachloride	ND		0.50		ug/L			06/21/14 02:40	1
Chlorobenzene	ND		0.50		ug/L			06/21/14 02:40	1
Chloroethane	ND		1.0		ug/L			06/21/14 02:40	1
Chloroform	ND		1.0		ug/L			06/21/14 02:40	1
Chloromethane	ND		1.0		ug/L			06/21/14 02:40	1
2-Chlorotoluene	ND		0.50		ug/L			06/21/14 02:40	1
4-Chlorotoluene	ND		0.50		ug/L			06/21/14 02:40	1
Chlorodibromomethane	ND		0.50		ug/L			06/21/14 02:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/21/14 02:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/21/14 02:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/21/14 02:40	1
1,3-Dichloropropane	ND		1.0		ug/L			06/21/14 02:40	1
1,1-Dichloropropene	ND		0.50		ug/L			06/21/14 02:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/21/14 02:40	1
Ethylene Dibromide	ND		0.50		ug/L			06/21/14 02:40	1
Dibromomethane	ND		0.50		ug/L			06/21/14 02:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/21/14 02:40	1
1,1-Dichloroethane	ND		0.50		ug/L			06/21/14 02:40	1
1,2-Dichloroethane	ND		0.50		ug/L			06/21/14 02:40	1
1,1-Dichloroethene	ND		0.50		ug/L			06/21/14 02:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 02:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 02:40	1
1,2-Dichloropropane	ND		0.50		ug/L			06/21/14 02:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 02:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 02:40	1
Ethylbenzene	ND		0.50		ug/L			06/21/14 02:40	1
Hexachlorobutadiene	ND		1.0		ug/L			06/21/14 02:40	1
2-Hexanone	ND		50		ug/L			06/21/14 02:40	1
Isopropylbenzene	ND		0.50		ug/L			06/21/14 02:40	1
4-Isopropyltoluene	ND		1.0		ug/L			06/21/14 02:40	1
Methylene Chloride	ND		5.0		ug/L			06/21/14 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/14 02:40	1
Naphthalene	ND		1.0		ug/L			06/21/14 02:40	1
N-Propylbenzene	ND		1.0		ug/L			06/21/14 02:40	1
Styrene	ND		0.50		ug/L			06/21/14 02:40	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 02:40	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-6A

Lab Sample ID: 720-58120-5

Date Collected: 06/19/14 08:40

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 02:40	1
Tetrachloroethene	ND		0.50		ug/L			06/21/14 02:40	1
Toluene	ND		0.50		ug/L			06/21/14 02:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/21/14 02:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/21/14 02:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/21/14 02:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/21/14 02:40	1
Trichloroethene	ND		0.50		ug/L			06/21/14 02:40	1
Trichlorofluoromethane	ND		1.0		ug/L			06/21/14 02:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/21/14 02:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/21/14 02:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/21/14 02:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/21/14 02:40	1
Vinyl acetate	ND		10		ug/L			06/21/14 02:40	1
Vinyl chloride	ND		0.50		ug/L			06/21/14 02:40	1
Xylenes, Total	ND		1.0		ug/L			06/21/14 02:40	1
2,2-Dichloropropane	ND		0.50		ug/L			06/21/14 02:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/21/14 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		06/21/14 02:40	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		06/21/14 02:40	1
Toluene-d8 (Surr)	94		70 - 130		06/21/14 02:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 20:03	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		06/20/14 11:13	06/20/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5	06/20/14 11:13	06/20/14 20:03	1
p-Terphenyl	94		31 - 150	06/20/14 11:13	06/20/14 20:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-6B

Lab Sample ID: 720-58120-6

Date Collected: 06/19/14 09:45

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/21/14 03:09	1
Acetone	ND		50		ug/L			06/21/14 03:09	1
Benzene	ND		0.50		ug/L			06/21/14 03:09	1
Dichlorobromomethane	ND		0.50		ug/L			06/21/14 03:09	1
Bromobenzene	ND		1.0		ug/L			06/21/14 03:09	1
Chlorobromomethane	ND		1.0		ug/L			06/21/14 03:09	1
Bromoform	ND		1.0		ug/L			06/21/14 03:09	1
Bromomethane	ND		1.0		ug/L			06/21/14 03:09	1
2-Butanone (MEK)	ND		50		ug/L			06/21/14 03:09	1
n-Butylbenzene	ND		1.0		ug/L			06/21/14 03:09	1
sec-Butylbenzene	ND		1.0		ug/L			06/21/14 03:09	1
tert-Butylbenzene	ND		1.0		ug/L			06/21/14 03:09	1
Carbon disulfide	ND		5.0		ug/L			06/21/14 03:09	1
Carbon tetrachloride	ND		0.50		ug/L			06/21/14 03:09	1
Chlorobenzene	ND		0.50		ug/L			06/21/14 03:09	1
Chloroethane	ND		1.0		ug/L			06/21/14 03:09	1
Chloroform	ND		1.0		ug/L			06/21/14 03:09	1
Chloromethane	ND		1.0		ug/L			06/21/14 03:09	1
2-Chlorotoluene	ND		0.50		ug/L			06/21/14 03:09	1
4-Chlorotoluene	ND		0.50		ug/L			06/21/14 03:09	1
Chlorodibromomethane	ND		0.50		ug/L			06/21/14 03:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:09	1
1,3-Dichloropropane	ND		1.0		ug/L			06/21/14 03:09	1
1,1-Dichloropropene	ND		0.50		ug/L			06/21/14 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/21/14 03:09	1
Ethylene Dibromide	ND		0.50		ug/L			06/21/14 03:09	1
Dibromomethane	ND		0.50		ug/L			06/21/14 03:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/21/14 03:09	1
1,1-Dichloroethane	ND		0.50		ug/L			06/21/14 03:09	1
1,2-Dichloroethane	ND		0.50		ug/L			06/21/14 03:09	1
1,1-Dichloroethene	ND		0.50		ug/L			06/21/14 03:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 03:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 03:09	1
1,2-Dichloropropane	ND		0.50		ug/L			06/21/14 03:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 03:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 03:09	1
Ethylbenzene	ND		0.50		ug/L			06/21/14 03:09	1
Hexachlorobutadiene	ND		1.0		ug/L			06/21/14 03:09	1
2-Hexanone	ND		50		ug/L			06/21/14 03:09	1
Isopropylbenzene	ND		0.50		ug/L			06/21/14 03:09	1
4-Isopropyltoluene	ND		1.0		ug/L			06/21/14 03:09	1
Methylene Chloride	ND		5.0		ug/L			06/21/14 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/14 03:09	1
Naphthalene	ND		1.0		ug/L			06/21/14 03:09	1
N-Propylbenzene	ND		1.0		ug/L			06/21/14 03:09	1
Styrene	ND		0.50		ug/L			06/21/14 03:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 03:09	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-6B

Lab Sample ID: 720-58120-6

Date Collected: 06/19/14 09:45

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 03:09	1
Tetrachloroethene	ND		0.50		ug/L			06/21/14 03:09	1
Toluene	ND		0.50		ug/L			06/21/14 03:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/21/14 03:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/21/14 03:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/21/14 03:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/21/14 03:09	1
Trichloroethene	ND		0.50		ug/L			06/21/14 03:09	1
Trichlorofluoromethane	ND		1.0		ug/L			06/21/14 03:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/21/14 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/21/14 03:09	1
1,2,4-Trimethylbenzene	2.5		0.50		ug/L			06/21/14 03:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/21/14 03:09	1
Vinyl acetate	ND		10		ug/L			06/21/14 03:09	1
Vinyl chloride	ND		0.50		ug/L			06/21/14 03:09	1
Xylenes, Total	ND		1.0		ug/L			06/21/14 03:09	1
2,2-Dichloropropane	ND		0.50		ug/L			06/21/14 03:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/21/14 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		06/21/14 03:09	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		06/21/14 03:09	1
Toluene-d8 (Surr)	95		70 - 130		06/21/14 03:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 20:27	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		06/20/14 11:13	06/20/14 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.008		0 - 5	06/20/14 11:13	06/20/14 20:27	1
p-Terphenyl	97		31 - 150	06/20/14 11:13	06/20/14 20:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-7A
Date Collected: 06/19/14 11:15
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.4		0.50		ug/L			06/21/14 03:37	1
Acetone	ND		50		ug/L			06/21/14 03:37	1
Benzene	ND		0.50		ug/L			06/21/14 03:37	1
Dichlorobromomethane	ND		0.50		ug/L			06/21/14 03:37	1
Bromobenzene	ND		1.0		ug/L			06/21/14 03:37	1
Chlorobromomethane	ND		1.0		ug/L			06/21/14 03:37	1
Bromoform	ND		1.0		ug/L			06/21/14 03:37	1
Bromomethane	ND		1.0		ug/L			06/21/14 03:37	1
2-Butanone (MEK)	ND		50		ug/L			06/21/14 03:37	1
n-Butylbenzene	ND		1.0		ug/L			06/21/14 03:37	1
sec-Butylbenzene	ND		1.0		ug/L			06/21/14 03:37	1
tert-Butylbenzene	ND		1.0		ug/L			06/21/14 03:37	1
Carbon disulfide	ND		5.0		ug/L			06/21/14 03:37	1
Carbon tetrachloride	ND		0.50		ug/L			06/21/14 03:37	1
Chlorobenzene	ND		0.50		ug/L			06/21/14 03:37	1
Chloroethane	ND		1.0		ug/L			06/21/14 03:37	1
Chloroform	ND		1.0		ug/L			06/21/14 03:37	1
Chloromethane	ND		1.0		ug/L			06/21/14 03:37	1
2-Chlorotoluene	ND		0.50		ug/L			06/21/14 03:37	1
4-Chlorotoluene	ND		0.50		ug/L			06/21/14 03:37	1
Chlorodibromomethane	ND		0.50		ug/L			06/21/14 03:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/21/14 03:37	1
1,3-Dichloropropane	ND		1.0		ug/L			06/21/14 03:37	1
1,1-Dichloropropene	ND		0.50		ug/L			06/21/14 03:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/21/14 03:37	1
Ethylene Dibromide	ND		0.50		ug/L			06/21/14 03:37	1
Dibromomethane	ND		0.50		ug/L			06/21/14 03:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/21/14 03:37	1
1,1-Dichloroethane	ND		0.50		ug/L			06/21/14 03:37	1
1,2-Dichloroethane	ND		0.50		ug/L			06/21/14 03:37	1
1,1-Dichloroethene	ND		0.50		ug/L			06/21/14 03:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 03:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 03:37	1
1,2-Dichloropropane	ND		0.50		ug/L			06/21/14 03:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 03:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 03:37	1
Ethylbenzene	ND		0.50		ug/L			06/21/14 03:37	1
Hexachlorobutadiene	ND		1.0		ug/L			06/21/14 03:37	1
2-Hexanone	ND		50		ug/L			06/21/14 03:37	1
Isopropylbenzene	ND		0.50		ug/L			06/21/14 03:37	1
4-Isopropyltoluene	ND		1.0		ug/L			06/21/14 03:37	1
Methylene Chloride	ND		5.0		ug/L			06/21/14 03:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/14 03:37	1
Naphthalene	ND		1.0		ug/L			06/21/14 03:37	1
N-Propylbenzene	ND		1.0		ug/L			06/21/14 03:37	1
Styrene	ND		0.50		ug/L			06/21/14 03:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 03:37	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-7A

Lab Sample ID: 720-58120-7

Date Collected: 06/19/14 11:15

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 03:37	1
Tetrachloroethene	ND		0.50		ug/L			06/21/14 03:37	1
Toluene	ND		0.50		ug/L			06/21/14 03:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/21/14 03:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/21/14 03:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/21/14 03:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/21/14 03:37	1
Trichloroethene	ND		0.50		ug/L			06/21/14 03:37	1
Trichlorofluoromethane	ND		1.0		ug/L			06/21/14 03:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/21/14 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/21/14 03:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/21/14 03:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/21/14 03:37	1
Vinyl acetate	ND		10		ug/L			06/21/14 03:37	1
Vinyl chloride	ND		0.50		ug/L			06/21/14 03:37	1
Xylenes, Total	ND		1.0		ug/L			06/21/14 03:37	1
2,2-Dichloropropane	ND		0.50		ug/L			06/21/14 03:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/21/14 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		06/21/14 03:37	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130		06/21/14 03:37	1
Toluene-d8 (Surr)	95		70 - 130		06/21/14 03:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		49		ug/L		06/20/14 11:13	06/20/14 20:52	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		06/20/14 11:13	06/20/14 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.008		0 - 5	06/20/14 11:13	06/20/14 20:52	1
p-Terphenyl	92		31 - 150	06/20/14 11:13	06/20/14 20:52	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-7B
Date Collected: 06/19/14 11:50
Date Received: 06/19/14 13:50

Lab Sample ID: 720-58120-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.6		0.50		ug/L			06/21/14 04:05	1
Acetone	ND		50		ug/L			06/21/14 04:05	1
Benzene	ND		0.50		ug/L			06/21/14 04:05	1
Dichlorobromomethane	ND		0.50		ug/L			06/21/14 04:05	1
Bromobenzene	ND		1.0		ug/L			06/21/14 04:05	1
Chlorobromomethane	ND		1.0		ug/L			06/21/14 04:05	1
Bromoform	ND		1.0		ug/L			06/21/14 04:05	1
Bromomethane	ND		1.0		ug/L			06/21/14 04:05	1
2-Butanone (MEK)	ND		50		ug/L			06/21/14 04:05	1
n-Butylbenzene	ND		1.0		ug/L			06/21/14 04:05	1
sec-Butylbenzene	ND		1.0		ug/L			06/21/14 04:05	1
tert-Butylbenzene	ND		1.0		ug/L			06/21/14 04:05	1
Carbon disulfide	ND		5.0		ug/L			06/21/14 04:05	1
Carbon tetrachloride	ND		0.50		ug/L			06/21/14 04:05	1
Chlorobenzene	ND		0.50		ug/L			06/21/14 04:05	1
Chloroethane	ND		1.0		ug/L			06/21/14 04:05	1
Chloroform	ND		1.0		ug/L			06/21/14 04:05	1
Chloromethane	ND		1.0		ug/L			06/21/14 04:05	1
2-Chlorotoluene	ND		0.50		ug/L			06/21/14 04:05	1
4-Chlorotoluene	ND		0.50		ug/L			06/21/14 04:05	1
Chlorodibromomethane	ND		0.50		ug/L			06/21/14 04:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/21/14 04:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/21/14 04:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/21/14 04:05	1
1,3-Dichloropropane	ND		1.0		ug/L			06/21/14 04:05	1
1,1-Dichloropropene	ND		0.50		ug/L			06/21/14 04:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/21/14 04:05	1
Ethylene Dibromide	ND		0.50		ug/L			06/21/14 04:05	1
Dibromomethane	ND		0.50		ug/L			06/21/14 04:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/21/14 04:05	1
1,1-Dichloroethane	ND		0.50		ug/L			06/21/14 04:05	1
1,2-Dichloroethane	ND		0.50		ug/L			06/21/14 04:05	1
1,1-Dichloroethene	ND		0.50		ug/L			06/21/14 04:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 04:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/21/14 04:05	1
1,2-Dichloropropane	ND		0.50		ug/L			06/21/14 04:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 04:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/21/14 04:05	1
Ethylbenzene	ND		0.50		ug/L			06/21/14 04:05	1
Hexachlorobutadiene	ND		1.0		ug/L			06/21/14 04:05	1
2-Hexanone	ND		50		ug/L			06/21/14 04:05	1
Isopropylbenzene	ND		0.50		ug/L			06/21/14 04:05	1
4-Isopropyltoluene	ND		1.0		ug/L			06/21/14 04:05	1
Methylene Chloride	ND		5.0		ug/L			06/21/14 04:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/14 04:05	1
Naphthalene	ND		1.0		ug/L			06/21/14 04:05	1
N-Propylbenzene	ND		1.0		ug/L			06/21/14 04:05	1
Styrene	ND		0.50		ug/L			06/21/14 04:05	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 04:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-7B

Lab Sample ID: 720-58120-8

Date Collected: 06/19/14 11:50

Matrix: Water

Date Received: 06/19/14 13:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/21/14 04:05	1
Tetrachloroethene	ND		0.50		ug/L			06/21/14 04:05	1
Toluene	ND		0.50		ug/L			06/21/14 04:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/21/14 04:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/21/14 04:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/21/14 04:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/21/14 04:05	1
Trichloroethene	ND		0.50		ug/L			06/21/14 04:05	1
Trichlorofluoromethane	ND		1.0		ug/L			06/21/14 04:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/21/14 04:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/21/14 04:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/21/14 04:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/21/14 04:05	1
Vinyl acetate	ND		10		ug/L			06/21/14 04:05	1
Vinyl chloride	ND		0.50		ug/L			06/21/14 04:05	1
Xylenes, Total	ND		1.0		ug/L			06/21/14 04:05	1
2,2-Dichloropropane	ND		0.50		ug/L			06/21/14 04:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/21/14 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		06/21/14 04:05	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130		06/21/14 04:05	1
Toluene-d8 (Surr)	96		70 - 130		06/21/14 04:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 21:16	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		06/20/14 11:13	06/20/14 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	06/20/14 11:13	06/20/14 21:16	1
p-Terphenyl	77		31 - 150	06/20/14 11:13	06/20/14 21:16	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-161565/4

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/20/14 09:17	1
Acetone	ND		50		ug/L			06/20/14 09:17	1
Benzene	ND		0.50		ug/L			06/20/14 09:17	1
Dichlorobromomethane	ND		0.50		ug/L			06/20/14 09:17	1
Bromobenzene	ND		1.0		ug/L			06/20/14 09:17	1
Chlorobromomethane	ND		1.0		ug/L			06/20/14 09:17	1
Bromoform	ND		1.0		ug/L			06/20/14 09:17	1
Bromomethane	ND		1.0		ug/L			06/20/14 09:17	1
2-Butanone (MEK)	ND		50		ug/L			06/20/14 09:17	1
n-Butylbenzene	ND		1.0		ug/L			06/20/14 09:17	1
sec-Butylbenzene	ND		1.0		ug/L			06/20/14 09:17	1
tert-Butylbenzene	ND		1.0		ug/L			06/20/14 09:17	1
Carbon disulfide	ND		5.0		ug/L			06/20/14 09:17	1
Carbon tetrachloride	ND		0.50		ug/L			06/20/14 09:17	1
Chlorobenzene	ND		0.50		ug/L			06/20/14 09:17	1
Chloroethane	ND		1.0		ug/L			06/20/14 09:17	1
Chloroform	ND		1.0		ug/L			06/20/14 09:17	1
Chloromethane	ND		1.0		ug/L			06/20/14 09:17	1
2-Chlorotoluene	ND		0.50		ug/L			06/20/14 09:17	1
4-Chlorotoluene	ND		0.50		ug/L			06/20/14 09:17	1
Chlorodibromomethane	ND		0.50		ug/L			06/20/14 09:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/20/14 09:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/20/14 09:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/20/14 09:17	1
1,3-Dichloropropane	ND		1.0		ug/L			06/20/14 09:17	1
1,1-Dichloropropene	ND		0.50		ug/L			06/20/14 09:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/20/14 09:17	1
Ethylene Dibromide	ND		0.50		ug/L			06/20/14 09:17	1
Dibromomethane	ND		0.50		ug/L			06/20/14 09:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/20/14 09:17	1
1,1-Dichloroethane	ND		0.50		ug/L			06/20/14 09:17	1
1,2-Dichloroethane	ND		0.50		ug/L			06/20/14 09:17	1
1,1-Dichloroethene	ND		0.50		ug/L			06/20/14 09:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 09:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 09:17	1
1,2-Dichloropropane	ND		0.50		ug/L			06/20/14 09:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 09:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 09:17	1
Ethylbenzene	ND		0.50		ug/L			06/20/14 09:17	1
Hexachlorobutadiene	ND		1.0		ug/L			06/20/14 09:17	1
2-Hexanone	ND		50		ug/L			06/20/14 09:17	1
Isopropylbenzene	ND		0.50		ug/L			06/20/14 09:17	1
4-Isopropyltoluene	ND		1.0		ug/L			06/20/14 09:17	1
Methylene Chloride	ND		5.0		ug/L			06/20/14 09:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/14 09:17	1
Naphthalene	ND		1.0		ug/L			06/20/14 09:17	1
N-Propylbenzene	ND		1.0		ug/L			06/20/14 09:17	1
Styrene	ND		0.50		ug/L			06/20/14 09:17	1

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-161565/4

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 09:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 09:17	1
Tetrachloroethene	ND		0.50		ug/L			06/20/14 09:17	1
Toluene	ND		0.50		ug/L			06/20/14 09:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/20/14 09:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/20/14 09:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/20/14 09:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/20/14 09:17	1
Trichloroethene	ND		0.50		ug/L			06/20/14 09:17	1
Trichlorofluoromethane	ND		1.0		ug/L			06/20/14 09:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/20/14 09:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/20/14 09:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/20/14 09:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/20/14 09:17	1
Vinyl acetate	ND		10		ug/L			06/20/14 09:17	1
Vinyl chloride	ND		0.50		ug/L			06/20/14 09:17	1
Xylenes, Total	ND		1.0		ug/L			06/20/14 09:17	1
2,2-Dichloropropane	ND		0.50		ug/L			06/20/14 09:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/20/14 09:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130		06/20/14 09:17	1
1,2-Dichloroethane-d4 (Surr)	97		72 - 130		06/20/14 09:17	1
Toluene-d8 (Surr)	95		70 - 130		06/20/14 09:17	1

Lab Sample ID: LCS 720-161565/5

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.1		ug/L		92	62 - 130
Acetone	125	114		ug/L		91	26 - 180
Benzene	25.0	23.7		ug/L		95	79 - 130
Dichlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Bromobenzene	25.0	24.6		ug/L		98	70 - 130
Chlorobromomethane	25.0	24.1		ug/L		96	70 - 130
Bromoform	25.0	25.7		ug/L		103	68 - 136
Bromomethane	25.0	24.3		ug/L		97	43 - 151
2-Butanone (MEK)	125	123		ug/L		99	54 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 142
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 134
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 135
Carbon disulfide	25.0	22.4		ug/L		90	58 - 130
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 146
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130
Chloroethane	25.0	23.3		ug/L		93	62 - 138
Chloroform	25.0	24.3		ug/L		97	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-161565/5

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	22.8		ug/L		91	52 - 175
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 145
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	30.7		ug/L		123	70 - 136
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Dibromomethane	25.0	24.6		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	24.3		ug/L		97	34 - 132
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	24.2		ug/L		97	61 - 132
1,1-Dichloroethene	25.0	21.2		ug/L		85	64 - 128
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	68 - 130
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 140
Ethylbenzene	25.0	24.0		ug/L		96	80 - 120
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
2-Hexanone	125	116		ug/L		93	60 - 164
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		92	58 - 130
Naphthalene	25.0	26.3		ug/L		105	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.7		ug/L		115	70 - 130
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130
Toluene	25.0	24.6		ug/L		98	78 - 120
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
Trichloroethene	25.0	24.1		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	25.5		ug/L		102	66 - 132
1,2,3-Trichloropropane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.3		ug/L		85	42 - 162
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 132
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
Vinyl acetate	25.0	28.0		ug/L		112	43 - 163
Vinyl chloride	25.0	23.1		ug/L		92	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-161565/5

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142
o-Xylene	25.0	24.5		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 720-161565/7

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	498		ug/L		100	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 720-161565/6

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	22.1		ug/L		88	62 - 130	4	20
Acetone	125	109		ug/L		87	26 - 180	5	30
Benzene	25.0	23.5		ug/L		94	79 - 130	1	20
Dichlorobromomethane	25.0	24.1		ug/L		96	70 - 130	4	20
Bromobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	2	20
Bromoform	25.0	25.8		ug/L		103	68 - 136	0	20
Bromomethane	25.0	23.8		ug/L		95	43 - 151	2	20
2-Butanone (MEK)	125	115		ug/L		92	54 - 130	7	20
n-Butylbenzene	25.0	25.8		ug/L		103	70 - 142	5	20
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 134	4	20
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 135	4	20
Carbon disulfide	25.0	22.9		ug/L		92	58 - 130	2	20
Carbon tetrachloride	25.0	25.2		ug/L		101	70 - 146	2	20
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	0	20
Chloroethane	25.0	23.3		ug/L		93	62 - 138	0	20
Chloroform	25.0	23.8		ug/L		95	70 - 130	2	20
Chloromethane	25.0	22.3		ug/L		89	52 - 175	2	20
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	2	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	2	20
Chlorodibromomethane	25.0	24.6		ug/L		99	70 - 145	5	20

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161565/6

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	31.0		ug/L		124	70 - 136	1	20
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130	4	20
Dibromomethane	25.0	24.0		ug/L		96	70 - 130	3	20
Dichlorodifluoromethane	25.0	25.1		ug/L		101	34 - 132	3	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	25.0	23.3		ug/L		93	61 - 132	4	20
1,1-Dichloroethene	25.0	21.6		ug/L		86	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	68 - 130	3	20
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	25.1		ug/L		101	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 140	5	20
Ethylbenzene	25.0	24.0		ug/L		96	80 - 120	0	20
Hexachlorobutadiene	25.0	25.8		ug/L		103	70 - 130	3	20
2-Hexanone	125	105		ug/L		84	60 - 164	10	20
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	3	20
Methylene Chloride	25.0	22.2		ug/L		89	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		85	58 - 130	7	20
Naphthalene	25.0	27.9		ug/L		112	70 - 130	6	20
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130	3	20
Styrene	25.0	24.6		ug/L		98	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	29.0		ug/L		116	70 - 130	1	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	1	20
Toluene	25.0	24.7		ug/L		99	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	3	20
1,1,1-Trichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	5	20
Trichloroethene	25.0	23.7		ug/L		95	70 - 130	2	20
Trichlorofluoromethane	25.0	26.3		ug/L		105	66 - 132	3	20
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.9		ug/L		88	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 132	2	20
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	2	20
Vinyl acetate	25.0	27.6		ug/L		110	43 - 163	2	20
Vinyl chloride	25.0	23.8		ug/L		95	54 - 135	3	20
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142	0	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	2	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 140	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161565/6

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 720-161565/8

Matrix: Water

Analysis Batch: 161565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (GRO) -C5-C12	500	495		ug/L		99	62 - 120	0	20

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: MB 720-161617/4

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Methyl tert-butyl ether	ND		0.50		ug/L			06/20/14 19:33	1
Acetone	ND		50		ug/L			06/20/14 19:33	1
Benzene	ND		0.50		ug/L			06/20/14 19:33	1
Dichlorobromomethane	ND		0.50		ug/L			06/20/14 19:33	1
Bromobenzene	ND		1.0		ug/L			06/20/14 19:33	1
Chlorobromomethane	ND		1.0		ug/L			06/20/14 19:33	1
Bromoform	ND		1.0		ug/L			06/20/14 19:33	1
Bromomethane	ND		1.0		ug/L			06/20/14 19:33	1
2-Butanone (MEK)	ND		50		ug/L			06/20/14 19:33	1
n-Butylbenzene	ND		1.0		ug/L			06/20/14 19:33	1
sec-Butylbenzene	ND		1.0		ug/L			06/20/14 19:33	1
tert-Butylbenzene	ND		1.0		ug/L			06/20/14 19:33	1
Carbon disulfide	ND		5.0		ug/L			06/20/14 19:33	1
Carbon tetrachloride	ND		0.50		ug/L			06/20/14 19:33	1
Chlorobenzene	ND		0.50		ug/L			06/20/14 19:33	1
Chloroethane	ND		1.0		ug/L			06/20/14 19:33	1
Chloroform	ND		1.0		ug/L			06/20/14 19:33	1
Chloromethane	ND		1.0		ug/L			06/20/14 19:33	1
2-Chlorotoluene	ND		0.50		ug/L			06/20/14 19:33	1
4-Chlorotoluene	ND		0.50		ug/L			06/20/14 19:33	1
Chlorodibromomethane	ND		0.50		ug/L			06/20/14 19:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/20/14 19:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/20/14 19:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/20/14 19:33	1
1,3-Dichloropropane	ND		1.0		ug/L			06/20/14 19:33	1
1,1-Dichloropropene	ND		0.50		ug/L			06/20/14 19:33	1

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-161617/4

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/20/14 19:33	1
Ethylene Dibromide	ND		0.50		ug/L			06/20/14 19:33	1
Dibromomethane	ND		0.50		ug/L			06/20/14 19:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/20/14 19:33	1
1,1-Dichloroethane	ND		0.50		ug/L			06/20/14 19:33	1
1,2-Dichloroethane	ND		0.50		ug/L			06/20/14 19:33	1
1,1-Dichloroethene	ND		0.50		ug/L			06/20/14 19:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 19:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/20/14 19:33	1
1,2-Dichloropropane	ND		0.50		ug/L			06/20/14 19:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 19:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/20/14 19:33	1
Ethylbenzene	ND		0.50		ug/L			06/20/14 19:33	1
Hexachlorobutadiene	ND		1.0		ug/L			06/20/14 19:33	1
2-Hexanone	ND		50		ug/L			06/20/14 19:33	1
Isopropylbenzene	ND		0.50		ug/L			06/20/14 19:33	1
4-Isopropyltoluene	ND		1.0		ug/L			06/20/14 19:33	1
Methylene Chloride	ND		5.0		ug/L			06/20/14 19:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/14 19:33	1
Naphthalene	ND		1.0		ug/L			06/20/14 19:33	1
N-Propylbenzene	ND		1.0		ug/L			06/20/14 19:33	1
Styrene	ND		0.50		ug/L			06/20/14 19:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 19:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/20/14 19:33	1
Tetrachloroethene	ND		0.50		ug/L			06/20/14 19:33	1
Toluene	ND		0.50		ug/L			06/20/14 19:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/20/14 19:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/20/14 19:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/20/14 19:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/20/14 19:33	1
Trichloroethene	ND		0.50		ug/L			06/20/14 19:33	1
Trichlorofluoromethane	ND		1.0		ug/L			06/20/14 19:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/20/14 19:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/20/14 19:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/20/14 19:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/20/14 19:33	1
Vinyl acetate	ND		10		ug/L			06/20/14 19:33	1
Vinyl chloride	ND		0.50		ug/L			06/20/14 19:33	1
Xylenes, Total	ND		1.0		ug/L			06/20/14 19:33	1
2,2-Dichloropropane	ND		0.50		ug/L			06/20/14 19:33	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/20/14 19:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		06/20/14 19:33	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		06/20/14 19:33	1
Toluene-d8 (Surr)	96		70 - 130		06/20/14 19:33	1

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-161617/5

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	22.7		ug/L		91	62 - 130
Acetone	125	96.3		ug/L		77	26 - 180
Benzene	25.0	23.1		ug/L		92	79 - 130
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	24.5		ug/L		98	70 - 130
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Bromoform	25.0	25.0		ug/L		100	68 - 136
Bromomethane	25.0	24.1		ug/L		96	43 - 151
2-Butanone (MEK)	125	106		ug/L		85	54 - 130
n-Butylbenzene	25.0	22.5		ug/L		90	70 - 142
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 134
tert-Butylbenzene	25.0	23.6		ug/L		95	70 - 135
Carbon disulfide	25.0	21.3		ug/L		85	58 - 130
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 146
Chlorobenzene	25.0	24.1		ug/L		96	70 - 130
Chloroethane	25.0	23.0		ug/L		92	62 - 138
Chloroform	25.0	23.9		ug/L		96	70 - 130
Chloromethane	25.0	21.8		ug/L		87	52 - 175
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.0		ug/L		108	70 - 136
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130
Dibromomethane	25.0	23.6		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	23.1		ug/L		92	34 - 132
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	23.6		ug/L		94	61 - 132
1,1-Dichloroethene	25.0	20.5		ug/L		82	64 - 128
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	22.0		ug/L		88	68 - 130
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	27.4		ug/L		109	70 - 140
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130
2-Hexanone	125	99.7		ug/L		80	60 - 164
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	22.8		ug/L		91	70 - 130
Methylene Chloride	25.0	22.2		ug/L		89	70 - 147
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	58 - 130
Naphthalene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-161617/5

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
Tetrachloroethene	25.0	23.4		ug/L		94	70 - 130
Toluene	25.0	23.4		ug/L		94	78 - 120
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	23.0		ug/L		92	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	66 - 132
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.8		ug/L		83	42 - 162
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
Vinyl acetate	25.0	24.5		ug/L		98	43 - 163
Vinyl chloride	25.0	22.7		ug/L		91	54 - 135
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 142
o-Xylene	25.0	24.3		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-161617/7

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	455		ug/L		91	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 720-161617/6

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	25.0	21.9		ug/L		88	62 - 130	3	20
Acetone	125	99.5		ug/L		80	26 - 180	3	30
Benzene	25.0	23.2		ug/L		93	79 - 130	1	20
Dichlorobromomethane	25.0	23.6		ug/L		94	70 - 130	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161617/6

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
							Limits			
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	3	20	
Chlorobromomethane	25.0	23.5		ug/L		94	70 - 130	2	20	
Bromoform	25.0	24.4		ug/L		98	68 - 136	3	20	
Bromomethane	25.0	24.7		ug/L		99	43 - 151	2	20	
2-Butanone (MEK)	125	103		ug/L		82	54 - 130	3	20	
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 142	5	20	
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 134	5	20	
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135	6	20	
Carbon disulfide	25.0	21.7		ug/L		87	58 - 130	2	20	
Carbon tetrachloride	25.0	24.6		ug/L		98	70 - 146	3	20	
Chlorobenzene	25.0	24.1		ug/L		97	70 - 130	0	20	
Chloroethane	25.0	23.8		ug/L		95	62 - 138	3	20	
Chloroform	25.0	24.0		ug/L		96	70 - 130	0	20	
Chloromethane	25.0	22.0		ug/L		88	52 - 175	1	20	
2-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130	3	20	
4-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130	3	20	
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 145	0	20	
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	1	20	
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	2	20	
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	1	20	
1,3-Dichloropropane	25.0	23.0		ug/L		92	70 - 130	0	20	
1,1-Dichloropropene	25.0	25.1		ug/L		101	70 - 130	3	20	
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	70 - 136	1	20	
Ethylene Dibromide	25.0	24.1		ug/L		97	70 - 130	1	20	
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	0	20	
Dichlorodifluoromethane	25.0	24.2		ug/L		97	34 - 132	5	20	
1,1-Dichloroethane	25.0	23.4		ug/L		93	70 - 130	0	20	
1,2-Dichloroethane	25.0	23.1		ug/L		93	61 - 132	2	20	
1,1-Dichloroethene	25.0	21.1		ug/L		85	64 - 128	3	20	
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	68 - 130	3	20	
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	1	20	
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20	
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 140	2	20	
Ethylbenzene	25.0	23.2		ug/L		93	80 - 120	1	20	
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130	4	20	
2-Hexanone	125	99.7		ug/L		80	60 - 164	0	20	
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20	
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	5	20	
Methylene Chloride	25.0	22.1		ug/L		88	70 - 147	0	20	
4-Methyl-2-pentanone (MIBK)	125	100		ug/L		80	58 - 130	2	20	
Naphthalene	25.0	25.4		ug/L		102	70 - 130	3	20	
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130	4	20	
Styrene	25.0	24.6		ug/L		98	70 - 130	1	20	
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		101	70 - 130	1	20	
1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	70 - 130	1	20	
Tetrachloroethene	25.0	24.0		ug/L		96	70 - 130	3	20	
Toluene	25.0	23.6		ug/L		94	78 - 120	1	20	

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161617/6

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130	2	20
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	70 - 130	2	20
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130	1	20
Trichloroethene	25.0	23.4		ug/L		93	70 - 130	2	20
Trichlorofluoromethane	25.0	25.7		ug/L		103	66 - 132	5	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.6		ug/L		86	42 - 162	4	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 132	3	20
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130	3	20
Vinyl acetate	25.0	25.3		ug/L		101	43 - 163	3	20
Vinyl chloride	25.0	23.4		ug/L		94	54 - 135	3	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142	1	20
o-Xylene	25.0	24.4		ug/L		98	70 - 130	0	20
2,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-161617/8

Matrix: Water

Analysis Batch: 161617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	452		ug/L		90	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-161591/1-A

Matrix: Water

Analysis Batch: 161566

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 161591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		06/20/14 11:13	06/20/14 21:40	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		06/20/14 11:13	06/20/14 21:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.004		0 - 5	06/20/14 11:13	06/20/14 21:40	1

TestAmerica Pleasanton

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-161591/1-A
Matrix: Water
Analysis Batch: 161566

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 161591

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
p-Terphenyl	84		31 - 150	06/20/14 11:13	06/20/14 21:40	1

Lab Sample ID: LCS 720-161591/2-A
Matrix: Water
Analysis Batch: 161566

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 161591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
p-Terphenyl	101		31 - 150

Lab Sample ID: LCSD 720-161591/3-A
Matrix: Water
Analysis Batch: 161566

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 161591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
p-Terphenyl	100		31 - 150

QC Association Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

GC/MS VOA

Analysis Batch: 161565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-161565/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-161565/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-161565/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-161565/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-161565/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 161617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-5	MW-6A	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-6	MW-6B	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-7	MW-7A	Total/NA	Water	8260B/CA_LUFT MS	
720-58120-8	MW-7B	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-161617/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-161617/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-161617/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-161617/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-161617/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Analysis Batch: 161566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-1	MW-1	Silica Gel Cleanup	Water	8015B	161591
720-58120-2	MW-2	Silica Gel Cleanup	Water	8015B	161591
720-58120-3	MW-4	Silica Gel Cleanup	Water	8015B	161591
LCS 720-161591/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	161591
LCSD 720-161591/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	161591
MB 720-161591/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	161591

Analysis Batch: 161567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-4	MW-5	Silica Gel Cleanup	Water	8015B	161591
720-58120-5	MW-6A	Silica Gel Cleanup	Water	8015B	161591

TestAmerica Pleasanton

QC Association Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

GC Semi VOA (Continued)

Analysis Batch: 161567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-6	MW-6B	Silica Gel Cleanup	Water	8015B	161591
720-58120-7	MW-7A	Silica Gel Cleanup	Water	8015B	161591
720-58120-8	MW-7B	Silica Gel Cleanup	Water	8015B	161591

Prep Batch: 161591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58120-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	
720-58120-2	MW-2	Silica Gel Cleanup	Water	3510C SGC	
720-58120-3	MW-4	Silica Gel Cleanup	Water	3510C SGC	
720-58120-4	MW-5	Silica Gel Cleanup	Water	3510C SGC	
720-58120-5	MW-6A	Silica Gel Cleanup	Water	3510C SGC	
720-58120-6	MW-6B	Silica Gel Cleanup	Water	3510C SGC	
720-58120-7	MW-7A	Silica Gel Cleanup	Water	3510C SGC	
720-58120-8	MW-7B	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-161591/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-161591/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-161591/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-1

Lab Sample ID: 720-58120-1

Date Collected: 06/18/14 12:05

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161565	06/20/14 17:16	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161566	06/20/14 19:39	JL	TAL PLS

Client Sample ID: MW-2

Lab Sample ID: 720-58120-2

Date Collected: 06/18/14 13:45

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161565	06/20/14 17:45	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161566	06/20/14 20:03	JL	TAL PLS

Client Sample ID: MW-4

Lab Sample ID: 720-58120-3

Date Collected: 06/18/14 15:25

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161617	06/21/14 01:43	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161566	06/20/14 20:27	JL	TAL PLS

Client Sample ID: MW-5

Lab Sample ID: 720-58120-4

Date Collected: 06/18/14 14:40

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	161617	06/21/14 02:12	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161567	06/20/14 19:39	JL	TAL PLS

Client Sample ID: MW-6A

Lab Sample ID: 720-58120-5

Date Collected: 06/19/14 08:40

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161617	06/21/14 02:40	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161567	06/20/14 20:03	JL	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Client Sample ID: MW-6B

Lab Sample ID: 720-58120-6

Date Collected: 06/19/14 09:45

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161617	06/21/14 03:09	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161567	06/20/14 20:27	JL	TAL PLS

Client Sample ID: MW-7A

Lab Sample ID: 720-58120-7

Date Collected: 06/19/14 11:15

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161617	06/21/14 03:37	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161567	06/20/14 20:52	JL	TAL PLS

Client Sample ID: MW-7B

Lab Sample ID: 720-58120-8

Date Collected: 06/19/14 11:50

Matrix: Water

Date Received: 06/19/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	161617	06/21/14 04:05	ASC	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			161591	06/20/14 11:13	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	161567	06/20/14 21:16	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-58120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58120-1	MW-1	Water	06/18/14 12:05	06/19/14 13:50
720-58120-2	MW-2	Water	06/18/14 13:45	06/19/14 13:50
720-58120-3	MW-4	Water	06/18/14 15:25	06/19/14 13:50
720-58120-4	MW-5	Water	06/18/14 14:40	06/19/14 13:50
720-58120-5	MW-6A	Water	06/19/14 08:40	06/19/14 13:50
720-58120-6	MW-6B	Water	06/19/14 09:45	06/19/14 13:50
720-58120-7	MW-7A	Water	06/19/14 11:15	06/19/14 13:50
720-58120-8	MW-7B	Water	06/19/14 11:50	06/19/14 13:50



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 720-58120

TESTAMERICA Pleasanton Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154443

Date 6/19 Page ___ of ___

6/23/2014

Report To

Analysis Request

Attn: Morgan Johnson
 Company: ENGED
 Address:
 Email: mjohnson@enged.com
 Bill To: Sampled By: Matt M.
 Phone: Matt M.
 Attn: Phone:

Sample ID	Date	Time	Mat	Preserv	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B	HVOCs by <input type="checkbox"/> EPA 8260B	EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Semi-Volatile Organics GC/MS <input type="checkbox"/> EPA 8270C	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664/9071) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS): _____	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	pH <input type="checkbox"/> 8040 <input type="checkbox"/> SM4500	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	<input type="checkbox"/> Perchlorate by EPA 314.0	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SMS220D <input type="checkbox"/> Turbidity	Number of Containers		
MW-1	6/18	12:05	GM	Headspace	X																				
MW-2		1:45			X																				
MW-4		3:25			X																				
MW-5		2:40			X																				
MW-6A	6/19	8:45																							
MW-6B		9:45																							
MW-7A		11:15																							
MW-7B		11:50																							



720-58120 Chain of Custody

Project Info. Sample Receipt

Project Name/#:
 Jordan Ranch
 PO#: 7828,000.001
 Head Space:
 Temp: 9/1.7°C

Credit Card Y/N:
 If yes, please call with payment information ASAP

Report: Routine Level 3 Level 4 EDD EDF
 Special Instructions / Comments: Global ID

See Terms and Conditions on reverse

1) Relinquished by:
 Signature: [Signature]
 Printed Name: Matthew Miller
 Date: 6/19/14

2) Relinquished by:
 Signature: [Signature]
 Printed Name: [Blank]
 Date: [Blank]

3) Relinquished by:
 Signature: [Signature]
 Printed Name: [Blank]
 Date: [Blank]

Received by:
 Signature: [Signature]
 Printed Name: Justin Gonzalez
 Date: 6/19/14

Received by:
 Signature: [Signature]
 Printed Name: [Blank]
 Date: [Blank]

Received by:
 Signature: [Signature]
 Printed Name: [Blank]
 Date: [Blank]

Company: [Blank]

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-58120-1

Login Number: 58120

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	SEE NCM
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Perjury Statement

July 16, 2014

Subject: Jordan Ranch Property – Former Leaking Underground Storage Tank
Dublin, California

PERJURY STATEMENT

“I declare, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.”

Submitted by Responsible Party:



ROBERT RADANOVICH
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, #170
Pleasanton, CA 94588