

GROUNDWATER MONITORING REPORT
JORDAN RANCH
DUBLIN, CALIFORNIA

Submitted to:

Mr. Ravi Nandwana
Mission Valley Homes
5000 Hopyard Road, #170
Pleasanton, CA 94588

Prepared by:
ENGEO Incorporated

September 21, 2010
Project No. 7828.000.001

Project No.
7828.000.000

September 21, 2010

Paresh C. Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Jordan Ranch – Former Leaking Underground Storage Tank
4233 Fallon Road
Dublin, California
ACEH Case No. R00002918

GROUNDWATER MONITORING REPORT

Dear Mr. Khatr:

This letter summarizes results of the August 2010 groundwater monitoring event completed for the Jordan Ranch (Site) located at 4233 Fallon Road in Dublin, California. 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 through MW-5 on August 24, 2010. The locations of monitoring wells MW-1 through MW-5 are shown on Figure 3.

The depths to groundwater at the site ranged from 11.75 feet below the TOC in MW-1 to 14.17 feet below the TOC in MW-2. During this sampling event, the direction of groundwater flow appeared to be towards the south-southwest at a gradient of approximately 0.0175 feet per foot (ft/ft). Groundwater elevation contours for this event are depicted on Figure 4. The cumulative groundwater elevation data from this event, along with data collected by former project consultants is summarized in Table 1 (attached).

Well Sampling

After recording groundwater depth measurements, we collected groundwater samples from wells MW-1, MW-2, MW-3, MW-4, and MW-5. Well sampling logs are attached.

ENGEO conducted the following activities during sampling:

- Purged wells MW-1 through MW-5 using a submersible pump.
- Monitored and recorded pH, temperature, and conductivity measurements during purging.

- Obtained groundwater samples using a submersible pump.
- 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 California Laboratory Services, in Rancho Cordova, California using a chain-of-custody record.
- Submitted the samples for the analysis of total petroleum hydrocarbon as gasoline (TPHg) and diesel (TPHd), BTEX, and MTBE.

Groundwater Analytical Results

Concentrations of contaminants detected during the August 24, 2010 monitoring event are tabulated below:

Well Location	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
MW-2	<50	15,000	780	93	1,200	2,600	170
MW-3	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
MW-4	<50	<50	<0.5	<0.5	<0.5	<1.0	80
MW-5	<50	74,000	7,500	11,000	2,700	13,000	100

Cumulative groundwater analytical data, including data collected by former project consultant is summarized in Table 2. A copy of the groundwater laboratory report and chain-of-custody record is attached.

FINDINGS

- Based on the data presented herein, concentrations of MTBE have decreased in wells MW-2, MW-4 and MW-5 since December 2005. MTBE has not been detected in MW-1 or MW-3 in past monitoring events presented in this report.
- Concentrations of TPHg have shown an increasing trend in wells MW-2 and MW-5 since December 2005. Concentrations of TPHg was not detected in the remaining wells during the August 2010 monitoring event.
- TPHd was not detected in the wells during the August 2010 monitoring event.
- Concentrations of BTEX constituents appear to be relatively consistent with past monitoring events.

FUTURE WORK ACTIVITIES

As previously discussed by phone, we are in the process of developing a revised Corrective Action Plan (CAP) for the Site. We anticipate a draft CAP will be provided to Alameda County by October 1, 2010.


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,

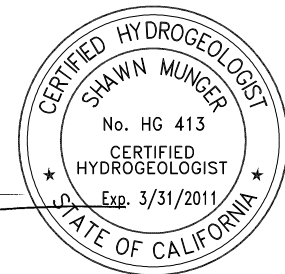
ENGEO Incorporated



Michael Turner, CEG
Senior Geologist



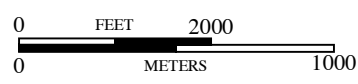
Shawn Munger, CHG
Principal



Attachments: Figure 1: Vicinity Map
Figure 2: Development Plan
Figure 3: Groundwater Elevation Contour Map
Figure 4: Groundwater Contaminant Plume
Figure 5: Concentrations of Contaminants in Groundwater
Table 1: Groundwater Elevations
Table 2: Groundwater Analytical Data
Monitoring Well Sampling Logs
Groundwater Laboratory Analytical Report and Chain-of-Custody Record

CC: Mr. Ravi Nandwana, Mission Valley Homes

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BASE MAP SOURCE: MS STREETS AND TRIPS

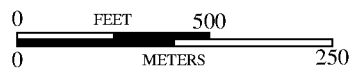
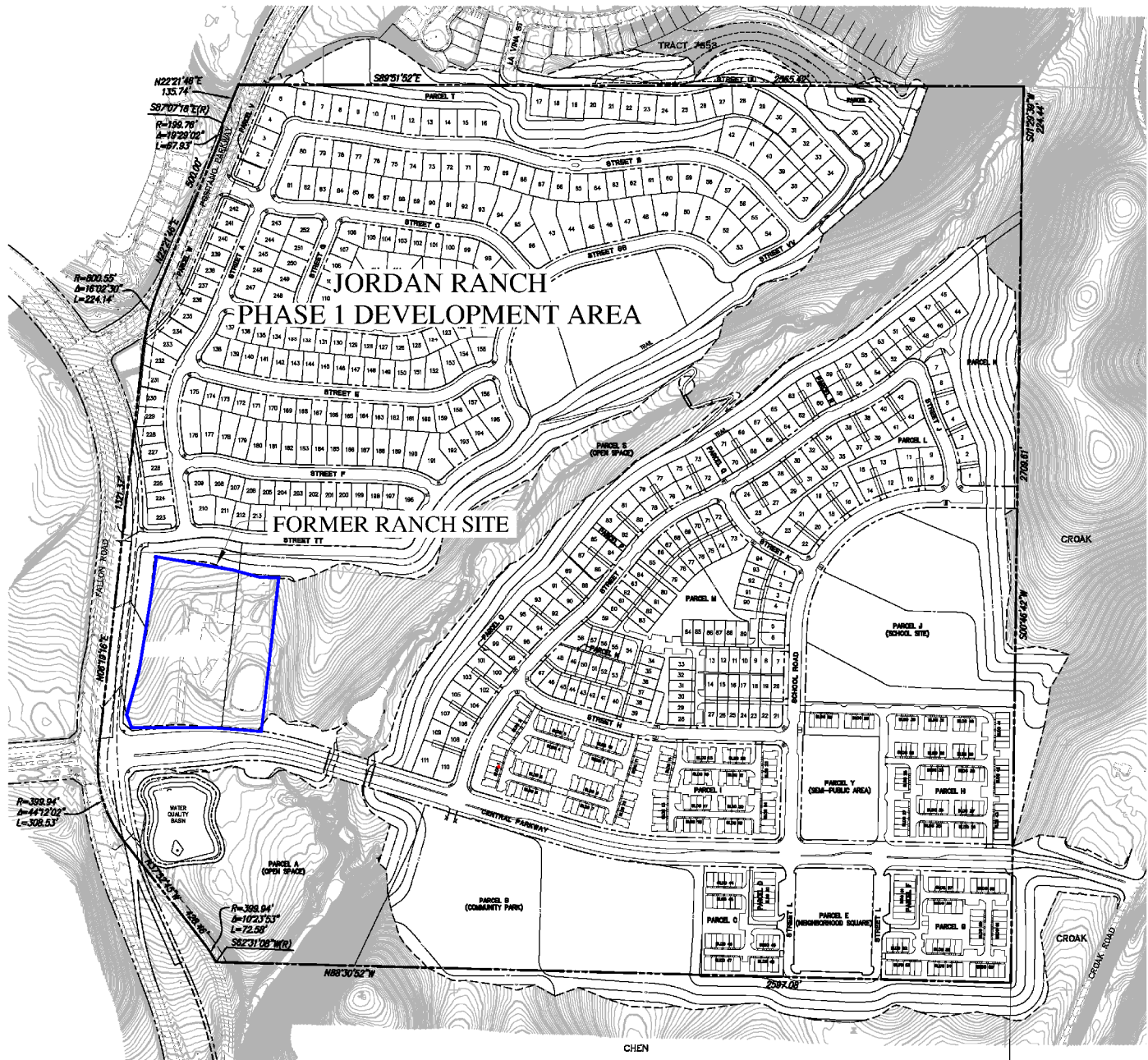


VICINITY MAP
 JORDAN RANCH
 DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001	
DATE: SEPTEMBER 2010	
DRAWN BY: SRP	CHECKED BY: SM

FIGURE NO.
1

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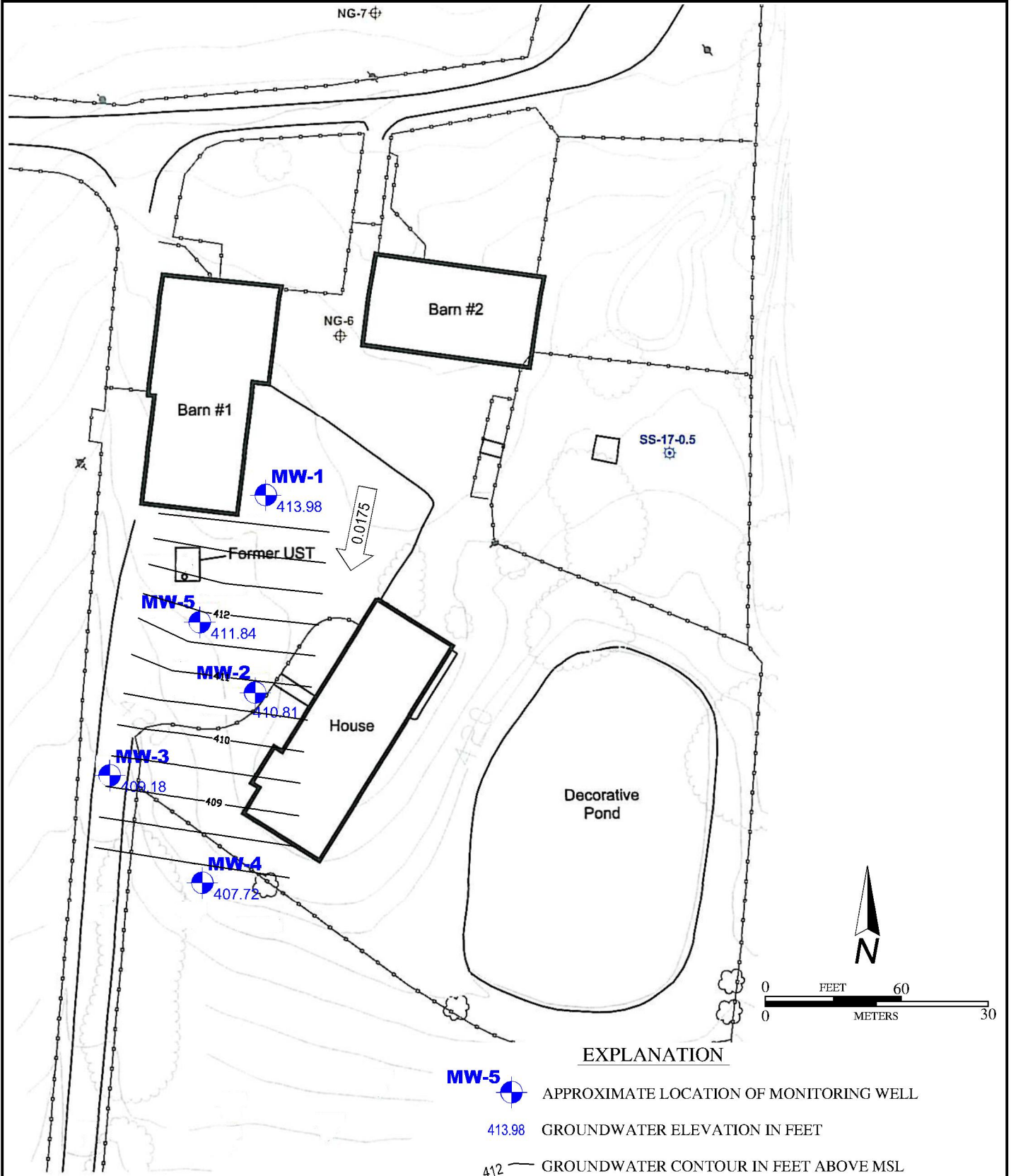
BASE MAP SOURCE: RJA, 2010



DEVELOPMENT PLAN
 JORDAN RANCH
 DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001	FIGURE NO. 2
DATE: SEPTEMBER 2010	
DRAWN BY: SRP	CHECKED BY: SM

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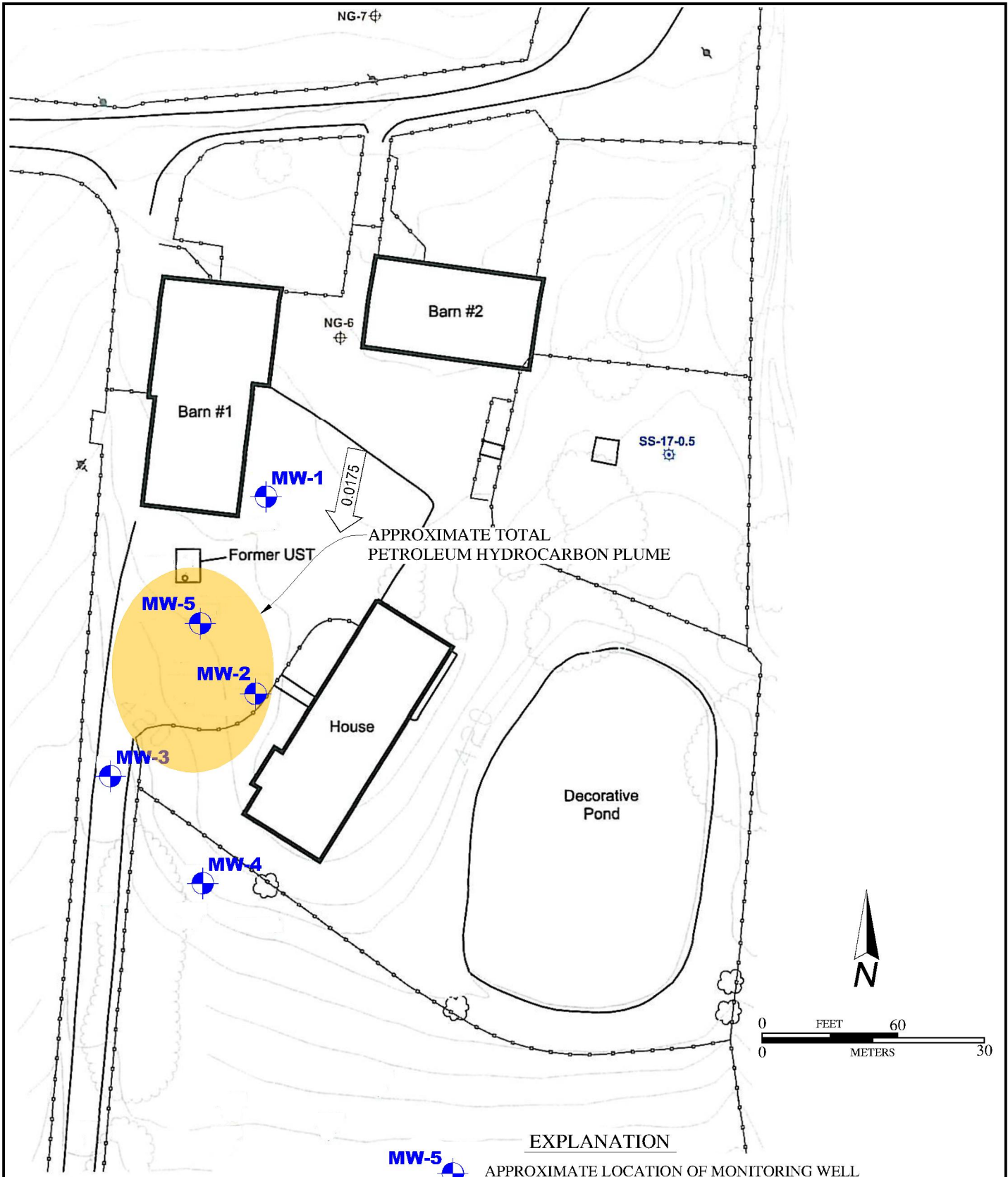
EXPLANATION

- MW-5 APPROXIMATE LOCATION OF MONITORING WELL
- 413.98 GROUNDWATER ELEVATION IN FEET
- 412 GROUNDWATER CONTOUR IN FEET ABOVE MSL
- 0.0175 APPROXIMATE GROUNDWATER FLOW DIRECTION

BASE MAP SOURCE: NORTHGATE

<p>ENGEO —Expect Excellence—</p>	<p>GROUNDWATER ELEVATION CONTOUR MAP</p> <p>JORDAN RANCH</p> <p>DUBLIN, CALIFORNIA</p>	<p>PROJECT NO.: 7828.000.001</p>	<p>FIGURE NO.</p> <p style="font-size: 2em; font-weight: bold;">3</p>
		<p>DATE: SEPTEMBER 2010</p>	
	<p>DRAWN BY: SRP</p>	<p>CHECKED BY: SM</p>	

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EXPLANATION

MW-5 APPROXIMATE LOCATION OF MONITORING WELL

0.0175 APPROXIMATE GROUNDWATER FLOW DIRECTION

BASE MAP SOURCE: NORTHGATE



GROUNDWATER CONTAMINANT PLUME
 JORDAN RANCH
 DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001

DATE: SEPTEMBER 2010

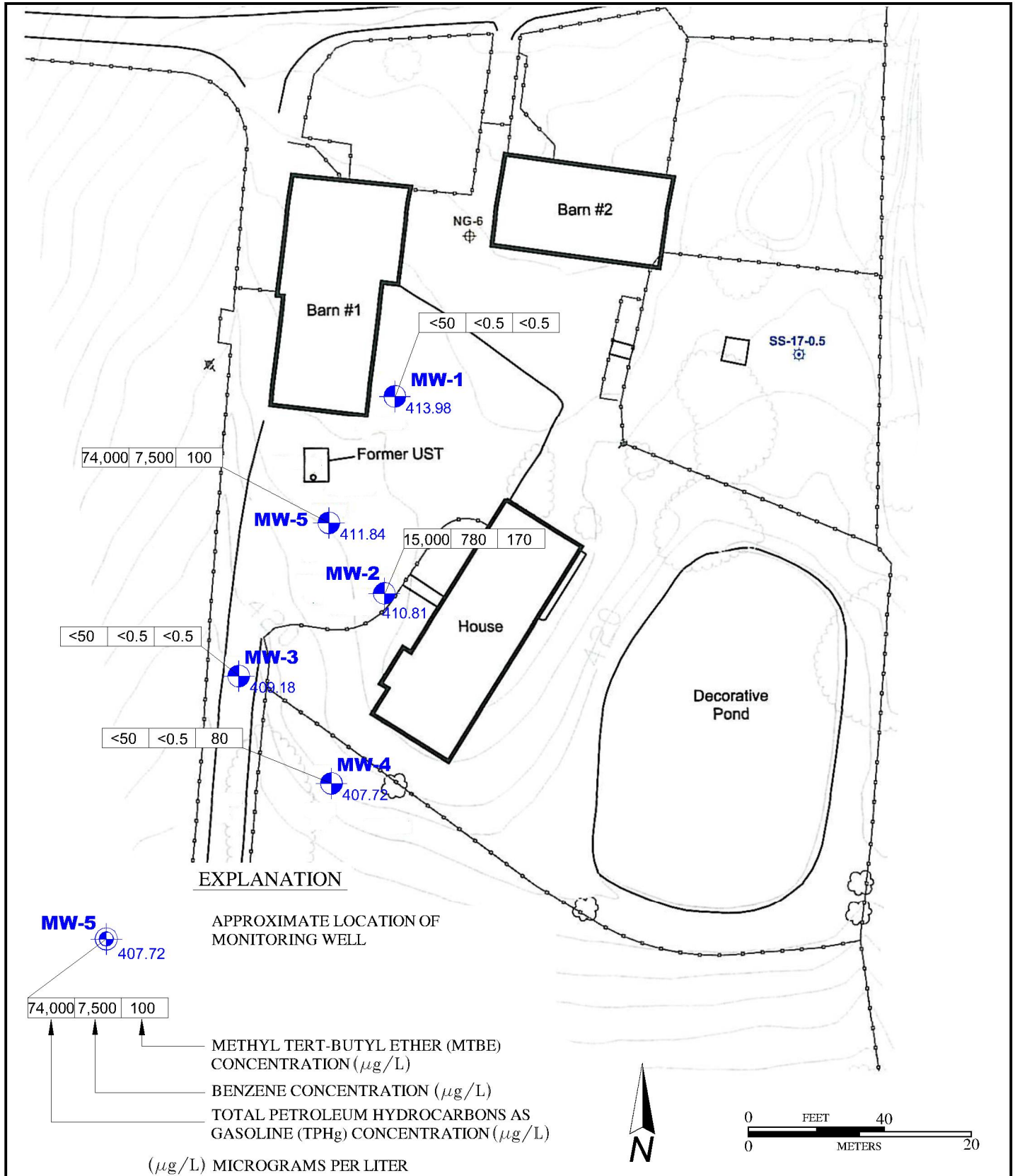
DRAWN BY: SRP

CHECKED BY: SM

FIGURE NO.

4

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BASE MAP SOURCE: NORTHGATE



CONCENTRATIONS OF CONTAMINANTS IN GROUNDWATER
 JORDAN RANCH
 DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001
 DATE: SEPTEMBER 2010
 DRAWN BY: SRP CHECKED BY: SM

FIGURE NO.
5

TABLE 1
Groundwater Elevations
Jordan Ranch
4233 Fallon Road
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
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
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
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
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
NOTES:				
bgs = Below ground surface				
msl = Mean sea level				
(1) Depth to groundwater measured from top of well casing.				
(2) Well casing elevations surveyed by Quite River Services, Inc. January 16, 2007.				
* Depth to water measurement collected by ENGEO				

TABLE 2
Groundwater Analytical Data
Jordan Ranch
4233 Fallon Road
Dublin, California

Well ID	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Total Xylenes (ug/L)	TBA (mg/L)	MTBE (ug/L)	DIPE (mg/L)	ETBE (mg/L)	TAME (mg/L)	1,2- DCA (mg/L)
MW-1	12/6/2005	NA	64	2	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5
	4/10/2008	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<50	<1.0	<0.5	<0.5	<0.5
	8/24/2010*	<50	<50	<0.5	<0.5	<0.5	<1.0	NA	<0.5	NA	NA	NA	NA
MW-2	12/6/2005	NA	3,400	470	<25	55	120	<250	800	<25	<25	<25	57
	7/26/2006	150	650	130	<0.5	<0.5	<0.5	<5.0	510	<0.5	<0.5	<0.5	14
	4/10/2008	NA	8,700	1,600	350	370	790	110	810	<10	<5.0	5.8	15
	8/24/2010*	<50	15,000	780	93	1,200	2,600	NA	170	NA	NA	NA	NA
MW-3	12/6/2005	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5
	4/10/2008	NA	430	45	34	22	90	<5.0	<0.5	<1.0	<0.5	<0.5	<0.5
	8/24/2010*	<50	<50	<0.5	<0.5	<0.5	<1.0	NA	<0.5	NA	NA	NA	NA
MW-4	12/6/2005	NA	70	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
	4/10/2008	NA	830	29	19	16	54	<50	1,200	<10	<5.0	<5.0	26
	8/24/2010*	<50	<50	<0.5	<0.5	<0.5	<1.0	NA	80	NA	NA	NA	NA
MW-5	12/6/2005	NA	53,000	13,000	1,300	930	4,400	<2,500	7,000	<250	<250	<250	290
	7/26/2006	560	15,000	4,100	580	200	870	<5.0	2,200	<0.5	<0.5	<0.5	<0.5
	4/10/2008	NA	66,000	24,000	7,600	2,200	9,200	<1,300	<130	<250	<130	<130	<130
	8/24/2010*	<50	74,000	7,500	11,000	2,700	13,000	NA	100	NA	NA	NA	NA

NOTES:
2005 Northgate Env. Mgt., Volatile organics by SW8260B; MTBE, BTEX, TPHg by SW8021B/8015Cm
2006 ICES, Volatile organics by SW8260B; MTBE, BTEX, TPHg by SW8021B/8015Cm; TPHd by SW8015C
2008 ATC, Volatile organics by 8260B; MTBE, BTEX, TPHg by 8260B
2010 ENGEO, Volatile organics by 8260B; MTBE, BTEX, TPHg by 8015M 5030; TPHd by 8015M
(mg/L) = milligrams per liter or parts per million
(ug/L) = micrograms per liter
<50 = Less than laboratory reporting limits
* = Indicates the sample was collected by ENGEO
NA = Not analyzed

WELL DEVELOPMENT/SAMPLING LOG

Engeo Incorporated

Project: <u>Jordan Ranch</u>	Well No. <u>MW-1</u>
Project No. <u>1828.000.000</u>	
Location: <u>MW-1</u>	
Technician: <u>M. Turnel</u>	
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Semiannual Sampling	

WELL SECURITY	Date: <u>8/24/10</u>
Well Box Set in Concrete? <input checked="" type="radio"/> Yes <input type="radio"/> No	Comments <u>No lid buried in dirt but cap in place, no lock.</u>
Box Cover Equipped With Bolts and Gasket? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Well Casing Equipped With Well Seal and Lock? <input checked="" type="radio"/> Yes <input type="radio"/> No	

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 1/2</u> Free Product Well? _____									
DTW (fbtoc): <u>11.75</u>									
BOC (fbtoc): <u>29.68</u> DTFP (fbtoc): _____	<table border="1"> <tr><td colspan="2">WCV Factors</td></tr> <tr><td>2" =</td><td>0.17</td></tr> <tr><td>4" =</td><td>0.66</td></tr> <tr><td>6" =</td><td>1.50</td></tr> </table>	WCV Factors		2" =	0.17	4" =	0.66	6" =	1.50
WCV Factors									
2" =		0.17							
4" =		0.66							
6" =	1.50								
WC (f): <u>17.93</u> DTW (fbtoc): _____									
WCV (gal): <u>3.04</u>									
3 X WCV (Purge Vol): <u>9.11</u> FPT (ft): _____									

PURGING, SAMPLING AND DECON EQUIPMENT	Date: <u>8/24/10</u>
Purging: <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump	Comments
Sampling: <input type="checkbox"/> Disposable Bailer <input checked="" 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: <u>Yes</u> <u>twice</u>	

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)	Date: <u>8/24/10</u>
Drums Onsite Arrival: <u>0</u> Drums All Labeled? <input checked="" type="radio"/> Yes <input type="radio"/> No (Attach Inventory)	Gallons
Drums Used This Event: <u>1</u> Drums Leaking? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Total Drums Onsite Now: <u>1</u> Purge Water Processed Through GWTS? <input type="radio"/> Yes <input checked="" type="radio"/> No	

PHYSICAL PARAMETERS								Date: <u>8/24/10</u>
Time	Volume Purged	Temp (C or F)	pH	EC	Odor	Sheen	DTW	80% Recovery
<u>10:55</u>	<u>5 gal</u>	<u>71.0</u>	<u>8.66</u>	<u>1039</u>	<u>-</u>	<u>-</u>		
<u>11:00</u>	<u>10 gal</u>	<u>74.5</u>	<u>8.24</u>	<u>1060</u>	<u>-</u>	<u>-</u>		

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

LABORATORY ANALYSIS
Number/Type Containers: <u>3</u> VOA's <u>1</u> Filter Ambers <u>0</u> 500ml Plastic
Preservative: HCl (VOA's); HNO3 (Plastic) <u>250 mL</u>
Analysis: See COC
Laboratory/TAT: Excelchem Analytical/Std.

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

WELL DEVELOPMENT/SAMPLING LOG

Engeo Incorporated

Project: <u>Jordan Ranch</u>		Well No. <u>MW-2</u>						
Project No. <u>7828.000.000</u>								
Location: <u>MW-2</u>								
Technician: <u>M Turner</u>								
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Semiannual Sampling								
WELL SECURITY		Date	<u>2/29/10</u>					
Well Box Set in Concrete? <u>Yes</u> No		Comments						
Box Cover Equipped With Bolts and Gasket? <u>Yes</u> No								
Well Casing Equipped With Well Seal and Lock? <u>Yes</u> <u>No</u> <u>No Lock</u>								
WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date						
Well Type <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter <u>2"</u> Free Product Well? _____								
DTW (fbtoc) <u>14.17</u>								
BOC (fbtoc) <u>29.01</u> DTFP (fbtoc) _____		WCV Factors						
WC (f) <u>14.9</u>		2" = 0.17						
WCV (gal) <u>2.9</u> DTW (fbtoc) _____		4" = 0.66						
3 X WCV (Purge Vol) <u>7.62</u>		6" = 1.50						
FPT (ft)								
PURGING, SAMPLING AND DECON EQUIPMENT		Date	<u>2/29/10</u>					
Purging: <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump		Comments						
Sampling: <input type="checkbox"/> Disposable Bailer <input checked="" 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: <u>Yes Twice</u>								
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	<u>2/29/10</u>					
Drums Onsite Arrival <u>0</u> Drums All Labeled? <u>Yes</u> No (Attach Inventory)								
Drums Used This Event <u>1</u> Drums Leaking? Yes <u>No</u>		Gallons						
Total Drums Onsite Now <u>1</u> Purge Water Processed Through GWTS? Yes <u>No</u>								
PHYSICAL PARAMETERS		Date	<u>2/29/10</u>					
Time	Volume Purged	Temp (C or F)	pH	EC	Odor	Sheen	DTW	80% Recovery
<u>12:13</u>	<u>4.99l</u>	<u>24.1</u>	<u>7.04</u>	<u>1245</u>	<u>Yes</u>	<u>Yes</u>		
<u>12:17</u>	<u>9.99l</u>	<u>22.7</u>	<u>7.35</u>	<u>1250</u>	<u>Yes</u>	<u>Yes</u>		
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers <u>3</u> VOA's <u>1</u> 1-liter Ambers <u>0</u> 500ml Plastic								
Preservative: HCl(VOA's); HNO3(Plastic) <u>250ml</u>								
Analysis: See COC								
Laboratory/TAT: Excelchem Analytical/Std.								

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

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

WELL DEVELOPMENT/SAMPLING LOG

Engeo Incorporated

Project: <u>Jordan Ranch</u>		Well No. <u>MW-3</u>						
Project No. <u>7028.000.000</u>								
Location: <u>MW-3</u>								
Technician: <u>M-Turner</u>								
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Semiannual Sampling								
WELL SECURITY			Date: <u>2/24/10</u>					
Well Box Set in Concrete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Comments						
Box Cover Equipped With Bolts and Gasket? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Well Casing Equipped With Well Seal and Lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>NO LOCK</u>								
WELL CONSTRUCTION AND WATER LEVEL DETAILS			Date: <u>2/24/10</u>					
Well Type <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter <u>2"</u> Free Product Well? _____		WCV Factors 2" = 0.17 4" = 0.66 6" = 1.50						
DTW (fbtoc) <u>12.29</u>								
BOC (fbtoc) <u>29.83</u> DTFP (fbtoc) _____								
WC (f) <u>17.31</u>								
WCV (gal) <u>299</u> DTW (fbtoc) _____								
3 X WCV (Purge Vol) <u>8.95</u> FPT (ft) _____								
PURGING, SAMPLING AND DECON EQUIPMENT			Date: <u>2/24/10</u>					
Purging: <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump		Comments						
Sampling: <input type="checkbox"/> Disposable Bailer <input checked="" 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: <u>Yes Twice</u>								
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)			Date: <u>2/24/10</u>					
Drums Onsite Arrival <u>0</u>		Drums All Labeled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Inventory)						
Drums Used This Event <u>1</u>		Drums Leaking? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Total Drums Onsite Now <u>1</u>		Purge Water Processed Through GWTS? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
PHYSICAL PARAMETERS			Date: <u>2/24/10</u>					
Time	Volume Purged	Temp (C or F)	pH	EC	Odor	Sheen	DTW	80% Recovery
<u>11:22</u>	<u>5.99L</u>	<u>22.0</u>	<u>7.30</u>	<u>985</u>	<u>-</u>	<u>-</u>		
<u>11:26</u>	<u>9.99L</u>	<u>22.0</u>	<u>7.97</u>	<u>1061</u>	<u>-</u>	<u>-</u>		
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers: <u>3</u> VOA's <u>1</u> Liter Ambers <u>0</u> 500ml Plastic								
Preservative: HCl(VOA's); HNO3(Plastic) <u>250ml</u>								
Analysis: See COC								
Laboratory/TAT: Excelchem Analytical/Std.								

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

fbtoc = feet below top of casing

WC = Water Column Height

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

WELL DEVELOPMENT/SAMPLING LOG

Engeo Incorporated

Project: <u>Sordan Ranch</u>	Well No. <u>MW-4</u>
Project No. <u>1928 000.000</u>	
Location: <u>MW-4</u>	
Technician: <u>M-Turner</u>	
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Semiannual Sampling	

WELL SECURITY	Date: <u>8/24/10</u>
Well Box Set in Concrete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Comments
Box Cover Equipped With Bolts and Gasket? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>No Bolts</u>	
Well Casing Equipped With Well Seal and Lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>No Lock</u>	

WELL CONSTRUCTION AND WATER LEVEL DETAILS	Date: <u>8/24/10</u>								
Well Type <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other									
Well Diameter <u>2</u> Free Product Well? _____									
DTW (fbtoc) <u>13.98</u>									
BOC (fbtoc) <u>29.77</u> DTFP (fbtoc) _____	<table border="1"> <tr><td colspan="2">WCV Factors</td></tr> <tr><td>2" =</td><td>0.17</td></tr> <tr><td>4" =</td><td>0.66</td></tr> <tr><td>6" =</td><td>1.50</td></tr> </table>	WCV Factors		2" =	0.17	4" =	0.66	6" =	1.50
WCV Factors									
2" =		0.17							
4" =		0.66							
6" =	1.50								
WC (f) <u>15.89</u> DTW (fbtoc) _____									
WCV (gal) <u>270</u>									
3 X WCV (Purge Vol) <u>8.10</u> FPT (ft) _____									

PURGING, SAMPLING AND DECON EQUIPMENT	Date: <u>8/24/10</u>
Purging: <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump	Comments
Sampling: <input type="checkbox"/> Disposable Bailer <input checked="" 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: <u>Yes Turcp</u>	

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)	Date: <u>8/24/10</u>
Drums Onsite Arrival <u>0</u> Drums All Labeled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Inventory)	Gallons
Drums Used This Event <u>1</u> Drums Leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total Drums Onsite Now <u>1</u> Purge Water Processed Through GWTS? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

PHYSICAL PARAMETERS								Date: <u>8/24/10</u>
Time	Volume Purged	Temp (C or F)	pH	EC	Odor	Sheen	DTW	80% Recovery
<u>11:49</u>	<u>5 gal</u>	<u>22.2</u>	<u>7.72</u>	<u>1322</u>	-	-		
<u>11:53</u>	<u>8 gal</u>	<u>21.2</u>	<u>7.63</u>	<u>1490</u>	-	-		

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

LABORATORY ANALYSIS
Number/Type Containers: <u>3</u> VOA's: <u>1</u> <u>1</u> liter Ambers: <u>0</u> 500ml Plastic
Preservative: HCl (VOA's); HNO3 (Plastic) <u>ESOMC</u>
Analysis: See COC
Laboratory/TAT: Excelchem Analytical/Std.

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

WELL DEVELOPMENT/SAMPLING LOG

Engeo Incorporated

Project: <u>Jordan Ranch</u>		Well No. <u>MW-5</u>						
Project No. <u>7828.000.000</u>								
Location: <u>MW 5</u>								
Technician: <u>M. Turner</u>								
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Semiannual Sampling								
WELL SECURITY			Date <u>8/24/10</u>					
Well Box Set in Concrete?	Yes	No	Comments					
Box Cover Equipped With Bolts and Gasket?	Yes	No						
Well Casing Equipped With Well Seal and Lock?	Yes	No						
WELL CONSTRUCTION AND WATER LEVEL DETAILS			Date <u>8/24/10</u>					
Well Type <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter <u>2"</u>	Free Product Well? _____							
DTW (fbtoc) <u>12.20</u>	DTFP (fbtoc) _____							
BOC (fbtoc) <u>29.73</u>	DTW (fbtoc) _____							
WC (f) <u>17.33</u>	WCV Factors 2" = 0.17 4" = 0.66 6" = 1.50							
WCV (gal) <u>2.98</u>								
3 X WCV (Purge Vol) <u>8.94</u>								
FPT (ft) _____								
PURGING, SAMPLING AND DECON EQUIPMENT			Date <u>8/24/10</u>					
Purging:	<input type="checkbox"/> Disposable Bailer	<input checked="" type="checkbox"/> 12-V Pump	<input type="checkbox"/> Subm. Pump					
Sampling:	<input type="checkbox"/> Disposable Bailer	<input checked="" 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		Comments					
	Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: <u>yes twice</u>							
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)			Date <u>8/24/10</u>					
Drums Onsite Arrival <u>0</u>	Drums All Labeled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Inventory)	Gallons						
Drums Used This Event <u>1</u>	Drums Leaking? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Total Drums Onsite Now <u>1</u>	Purge Water Processed Through GWTS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
PHYSICAL PARAMETERS			Date <u>8/24/10</u>					
Time	Volume Purged	Temp (C or F)	pH	EC	Odor	Sheen	DTW	80% Recovery
<u>12:37</u>	<u>5 gal</u>	<u>23.9</u>	<u>8.05</u>	<u>1126</u>	<u>Yes</u>	<u>Yes</u>		
<u>12:42</u>	<u>9 gal</u>	<u>21.6</u>	<u>8.16</u>	<u>1166</u>				
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers	<u>3</u>	VOA's	<u>1</u>	Filter Ambers	<u>0</u>	500ml Plastic		
Preservative:	HCl (VOA's); HNO3 (Plastic) <u>250ml</u>							
Analysis:	See COC							
Laboratory/TAT:	Excelchem Analytical/Std.							

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

fbtoc = feet below top of casing

WC = Water Column Height

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

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 27, 2010

CLS Work Order #: CTH0945
COC #:

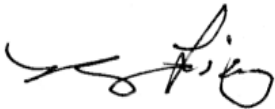
Shawn Munger
ENGE0
2213 Plaza Drive
Rocklin, CA 95765

Project Name: Jordan Ranch

Enclosed are the results of analyses for samples received by the laboratory on 08/24/10 15:33. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Page 1 of 9

08/27/10 14:14

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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CTH0945

ENGEO Project # 7828.000.000 Phase

CHAIN OF CUSTODY RECORD

PROJECT NUMBER 7828.000.000		PROJECT NAME Jordan Ranch				SAMPLED BY: (SIGNATURE) [Signature]		PRESERVATIVE		REMARKS REQUIRED DETECTION LIMITS	
PROJECT MANAGER Shawn Munger		ROUTING: E-MAIL smunger@engeo.com No				PHENOL		PHENOL			
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	PHENOL	PHENOL	PHENOL	PHENOL	PHENOL
MU-1	8/24/10	11:00	H ₂ O	4	3 Liters	HCl/ICE	X	X	X	X	5 day TOT
MU-2		12:17					X	X	X		
MU-3		11:20					X	X	X		
MU-4		11:53					X	X	X		
MU-5		12:42					X	X	X		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	
[Signature]	8/24/10 3:33	[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	
		[Signature]	8/24/10 15:33			[Signature]	10:20				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJECT FIELD FILES

CALIFORNIA LABORATORY SERVICES

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CTH0945-01) Water Sampled: 08/24/10 11:00 Received: 08/24/10 15:33 EXT-6									
Diesel	ND	0.050	mg/L	1	CT06350	08/26/10	08/27/10	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		113 %	65-135		"	"	"	"	
MW-2 (CTH0945-02) Water Sampled: 08/24/10 12:17 Received: 08/24/10 15:33 EXT-6									
Diesel	ND	0.050	mg/L	1	CT06350	08/26/10	08/27/10	EPA 8015M	A-COM
<i>Surrogate: o-Terphenyl</i>		218 %	65-135		"	"	"	"	
MW-3 (CTH0945-03) Water Sampled: 08/24/10 11:20 Received: 08/24/10 15:33 EXT-6									
Diesel	ND	0.050	mg/L	1	CT06350	08/26/10	08/27/10	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		118 %	65-135		"	"	"	"	
MW-4 (CTH0945-04) Water Sampled: 08/24/10 11:53 Received: 08/24/10 15:33 EXT-6									
Diesel	ND	0.050	mg/L	1	CT06350	08/26/10	08/27/10	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		134 %	65-135		"	"	"	"	
MW-5 (CTH0945-05) Water Sampled: 08/24/10 12:42 Received: 08/24/10 15:33 EXT-6									
Diesel	ND	0.050	mg/L	1	CT06350	08/26/10	08/27/10	EPA 8015M	A-COM
<i>Surrogate: o-Terphenyl</i>		117 %	65-135		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CTH0945-01) Water Sampled: 08/24/10 11:00 Received: 08/24/10 15:33									
Gasoline	ND	50	µg/L	1	CT06278	08/25/10	08/26/10	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		71 %		65-135	"	"	"	"	
MW-2 (CTH0945-02) Water Sampled: 08/24/10 12:17 Received: 08/24/10 15:33									
Gasoline	15000	500	µg/L	10	CT06278	08/25/10	08/26/10	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		82 %		65-135	"	"	"	"	
MW-3 (CTH0945-03) Water Sampled: 08/24/10 11:20 Received: 08/24/10 15:33									
Gasoline	ND	50	µg/L	1	CT06278	08/25/10	08/26/10	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		73 %		65-135	"	"	"	"	
MW-4 (CTH0945-04) Water Sampled: 08/24/10 11:53 Received: 08/24/10 15:33									
Gasoline	ND	50	µg/L	1	CT06278	08/25/10	08/26/10	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		75 %		65-135	"	"	"	"	
MW-5 (CTH0945-05) Water Sampled: 08/24/10 12:42 Received: 08/24/10 15:33									
Gasoline	74000	2500	µg/L	50	CT06278	08/25/10	08/26/10	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		82 %		65-135	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

Page 4 of 9

08/27/10 14:14

ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.000
Project Manager: Shawn Munger

CLS Work Order #: CTH0945

COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CTH0945-01) Water Sampled: 08/24/10 11:00 Received: 08/24/10 15:33									
Methyl tert-butyl ether	ND	0.50	µg/L	1	CT06316	08/25/10	08/25/10	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 101 % 72-125 " " " "

MW-2 (CTH0945-02) Water Sampled: 08/24/10 12:17 Received: 08/24/10 15:33

Methyl tert-butyl ether	170	5.0	µg/L	10	CT06316	08/25/10	08/25/10	EPA 8260B	
Benzene	780	5.0	"	"	"	"	"	"	
Toluene	93	5.0	"	"	"	"	"	"	
Ethylbenzene	1200	25	"	50	"	"	"	"	
Xylenes (total)	2600	50	"	"	"	"	"	"	

Surrogate: Toluene-d8 96 % 72-125 " " " "

MW-3 (CTH0945-03) Water Sampled: 08/24/10 11:20 Received: 08/24/10 15:33

Methyl tert-butyl ether	ND	0.50	µg/L	1	CT06316	08/25/10	08/25/10	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 99 % 72-125 " " " "

MW-4 (CTH0945-04) Water Sampled: 08/24/10 11:53 Received: 08/24/10 15:33

Methyl tert-butyl ether	80	0.50	µg/L	1	CT06316	08/25/10	08/25/10	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

Page 5 of 9

08/27/10 14:14

ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.000
Project Manager: Shawn Munger

CLS Work Order #: CTH0945
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-4 (CTH0945-04) Water Sampled: 08/24/10 11:53 Received: 08/24/10 15:33

Xylenes (total)	ND	1.0	µg/L	1	CT06316	"	08/25/10	EPA 8260B	
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Surrogate: Toluene-d8 99 % 72-125 " " " "

MW-5 (CTH0945-05) Water Sampled: 08/24/10 12:42 Received: 08/24/10 15:33

Methyl tert-butyl ether	100	5.0	µg/L	10	CT06316	08/25/10	08/25/10	EPA 8260B	
Benzene	7500	50	"	100	"	"	"	"	
Toluene	11000	50	"	"	"	"	"	"	
Ethylbenzene	2700	50	"	"	"	"	"	"	
Xylenes (total)	13000	100	"	"	"	"	"	"	

Surrogate: Toluene-d8 92 % 72-125 " " " "

CALIFORNIA LABORATORY SERVICES

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CT06350 - EPA 3510B GCNV

Blank (CT06350-BLK1)										
					Prepared: 08/26/10 Analyzed: 08/27/10					
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Mineral Oil	ND	0.050	"							
JP-5/JP-8	ND	0.050	"							
<i>Surrogate: o-Terphenyl</i>	0.0263		"	0.0250		105	65-135			
LCS (CT06350-BS1)										
					Prepared: 08/26/10 Analyzed: 08/27/10					
Diesel	2.32	0.050	mg/L	2.50		93	65-135			
<i>Surrogate: o-Terphenyl</i>	0.0303		"	0.0250		121	65-135			
LCS Dup (CT06350-BSD1)										
					Prepared: 08/26/10 Analyzed: 08/27/10					
Diesel	2.26	0.050	mg/L	2.50		91	65-135	2	30	
<i>Surrogate: o-Terphenyl</i>	0.0314		"	0.0250		126	65-135			
Matrix Spike (CT06350-MS1)										
		Source: CTH0904-01			Prepared: 08/26/10 Analyzed: 08/27/10					
Diesel	2.02	0.050	mg/L	2.50	ND	81	46-137			
<i>Surrogate: o-Terphenyl</i>	0.0262		"	0.0250		105	65-135			
Matrix Spike Dup (CT06350-MSD1)										
		Source: CTH0904-01			Prepared: 08/26/10 Analyzed: 08/27/10					
Diesel	1.94	0.050	mg/L	2.50	ND	78	46-137	4	30	
<i>Surrogate: o-Terphenyl</i>	0.0262		"	0.0250		105	65-135			

CALIFORNIA LABORATORY SERVICES

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CT06278 - EPA 5030 Water GC

Blank (CT06278-BLK1)

Prepared: 08/25/10 Analyzed: 08/26/10

Gasoline	ND	50	µg/L							
Surrogate: <i>o</i> -Chlorotoluene (Gas)	15.0		"	20.0		75	65-135			

LCS (CT06278-BS1)

Prepared: 08/25/10 Analyzed: 08/26/10

Gasoline	527	50	µg/L	500		105	65-135			
Surrogate: <i>o</i> -Chlorotoluene (Gas)	17.0		"	20.0		85	65-135			

LCS Dup (CT06278-BSD1)

Prepared: 08/25/10 Analyzed: 08/26/10

Gasoline	543	50	µg/L	500		109	65-135	3	30	
Surrogate: <i>o</i> -Chlorotoluene (Gas)	17.5		"	20.0		87	65-135			

Matrix Spike (CT06278-MS1)

Source: CTH0904-01

Prepared: 08/25/10 Analyzed: 08/26/10

Gasoline	542	50	µg/L	500	12.2	106	68-132			
Surrogate: <i>o</i> -Chlorotoluene (Gas)	17.6		"	20.0		88	65-135			

Matrix Spike Dup (CT06278-MSD1)

Source: CTH0904-01

Prepared: 08/25/10 Analyzed: 08/26/10

Gasoline	546	50	µg/L	500	12.2	107	68-132	0.8	32	
Surrogate: <i>o</i> -Chlorotoluene (Gas)	17.4		"	20.0		87	65-135			

CALIFORNIA LABORATORY SERVICES

ENGEO 2213 Plaza Drive Rocklin, CA 95765	Project: Jordan Ranch Project Number: 7828.000.000 Project Manager: Shawn Munger	CLS Work Order #: CTH0945 COC #:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CT06316 - EPA 5030 Water MS

Blank (CT06316-BLK1)

Prepared & Analyzed: 08/25/10

Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
<i>Surrogate: Toluene-d8</i>	<i>9.81</i>		<i>"</i>	<i>10.0</i>		<i>98</i>	<i>72-125</i>			

LCS (CT06316-BS1)

Prepared & Analyzed: 08/25/10

Methyl tert-butyl ether	20.1	0.50	µg/L	20.0		100	52-130			
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>72-125</i>			

LCS Dup (CT06316-BSD1)

Prepared & Analyzed: 08/25/10

Methyl tert-butyl ether	20.1	0.50	µg/L	20.0		101	52-130	0.3	30	
<i>Surrogate: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>72-125</i>			

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Page 9 of 9

08/27/10 14:14

ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.000
Project Manager: Shawn Munger

CLS Work Order #: CTH0945
COC #:

Notes and Definitions

EXT-6 Silica gel treatment was not performed because the sample is ND.

A-COM The sample contains kerosene or gasoline.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference