GETTLER-RYAN INC.

May 15, 2009

Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Ste. 250
Alameda, California 94502

Subject: **1st Quarter 2009 Groundwater Monitoring and Sampling Report**
Rolls-Royce Engine Service Test Facility,
6701 Old Earhart Road, Oakland, California
Alameda County Site #RO0002606

On behalf of Rolls-Royce Engine Services-Oakland Inc. (RR), Gettler-Ryan Inc. (GR) has prepared this first quarter 2009 groundwater monitoring and sampling report for the above-referenced property. This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the site.

Site Location and Description
The subject site is located at 6701 Old Earhart Road, adjacent to the Metropolitan Oakland International Airport (MOIA)-North Field, Oakland, California (Figure 1). Topography in the vicinity of the subject site is relatively flat at an average elevation of approximately 7.5 feet above mean sea level. The closest surface water is within the tidal wetlands bordering the site to the east.

Pertinent site features consist of six engine test cells with auxiliary structures (sheds, pumphouse, waste water sumps, aboveground oil/water separator, control buildings, gas conditioning facility, air receivers, cooling towers, flare stack, etc), one 30,000-gallon aboveground liquefied petroleum fuel tank, one 10,000-gallon jet A fuel underground storage tank (UST) and two paired 8,000-gallon jet A fuel USTs. Pertinent site features and the location of the USTs are shown on Figure 2.

For site background and previous environmental investigation, please refer to GR report No. 25-948218.07, *Well Installation Report*, dated January 11, 2008.

Groundwater Monitoring
On March 26, 2009, GR personnel conducted quarterly groundwater monitoring of nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4). Work at the site included measuring static groundwater levels, evaluating groundwater in the wells for the presence of petroleum hydrocarbons, and purging and sampling the wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with GR Field Methods and Procedures, Quarterly Groundwater Sampling (attached).

On March 26, 2009, GR collected depth to groundwater measurements in nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4) and checked groundwater for the presence of Separate-Phase Hydrocarbons (SPH). Approximately 0.55 ft of SPH were observed in well MW-18.

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Approximately 0.079 gallon (300 milliliters) of SPH and 0.079 gallon (300 milliliters) of water were bailed from well MW-18 and were stored onsite in a 55-gallon DOT approved drum pending disposal. Water level data, groundwater elevations, and SPH thicknesses are presented in attached Table 1. Field data sheets for this event are attached.

Groundwater monitoring wells MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4 were purged and sampled on the same date they were monitored. Well MW-18 was not sampled due to presence of 0.55 feet of SPH. Groundwater samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) of Davis, California. A copy of the laboratory analytical reports and chain-of-custody documents are attached. Purge water generated from the sampling activities was stored onsite in 55-gallon DOT approved drums pending disposal. GR understands that the disposal of water generated will be handled by RR.

Results

Groundwater Gradient

On March 26, 2009, the groundwater flow direction varied with hydraulic gradients ranging between 0.01 ft/ft to 0.02 ft/ft. A Potentiometric Map is presented as Figure 3.

Analytical Results

Groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-tert Butyl Ether (MtBE), and naphthalene by EPA Method 8260B, and for Total Petroleum Hydrocarbons as diesel (TPHd), Total Petroleum Hydrocarbons as motor oil (TPHmo), and Total Petroleum Hydrocarbons as jet fuel (TPHjf) by modified EPA Method 8015. Groundwater chemical analytical results for this event are presented in Table 1.

Concentrations of TPHg, TPHd, TPHmo, TPHjf, BTEX, MtBE and naphthalene were reported below the laboratory method detection limits in groundwater samples collected from wells MW-1, MW-2, MW-12, and NPORD MW-3.

TPHg was detected in the water samples collected from wells MW-10 and MW-13 at concentrations of 53 parts per billion (ppb) and 310 ppb, respectively. Concentrations of TPHg were reported below the laboratory method detection limits in water samples collected from the remaining wells.

TPHd was detected in eleven wells at concentrations ranging from 79 ppb in well MW-14 to 6,900 ppb in well MW-9. Concentrations of TPHmo were detected in eleven wells at levels ranging from 120 ppb in well MW-13 to 9,700 ppb in well MW-9. TPHjf was detected in fourteen wells at concentrations ranging from 71 ppb in well MW-17 to 5,600 ppb in well MW-9.

BTEX constituents were reported as below the laboratory method detection limits in all of the wells, except for benzene detected in well MW-13 at a concentration of 0.81 ppb.

MtBE was detected in wells MW-3, MW-13, MW-14 at concentrations of 0.69 ppb, 1.7 ppb, and 0.89 ppb, respectively. Napthalene was detected in wells MW-10 and MW-13 at concentrations of 1.8 ppb and 2.2 ppb, respectively. TPHg, TPHd, TPHmo and TPHjf concentrations are presented on Figure 4.

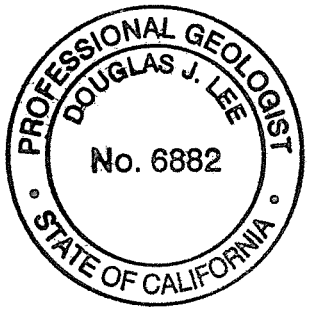
Conclusions and Recommendations
Based on the results of this groundwater monitoring and sampling event, GR concludes and recommends the following:

- Non-detectable concentrations of dissolved petroleum hydrocarbons were present in wells MW-1, MW-2, MW-12 and NPORD MW-3 located along the northeast edge of the site;
- Detectable dissolved concentrations of TPHg appear limited to the areas in the vicinity of well MW-13;
- Separate-phase hydrocarbons continue to be limited to the vicinity of MW-18;
- Detectable dissolved concentrations of TPHd, TPHmo and TPHjf were present in a majority of the site wells. The highest concentrations have been detected in the northwest portion of the site in the vicinity of Test Cells 5, 6, and 7; and
- GR recommends continuing quarterly groundwater monitoring and sampling of all wells to further evaluate groundwater flow direction, groundwater quality and plume stability over time.

If you have any questions, please feel free to contact our Rancho Cordova office at (916) 631-1300.

Sincerely,
Gettler-Ryan Inc.

Geoffrey D. Risse
Staff Geologist



Douglas J. Lee
Senior Geologist, P.G. No. 6882

Attachments: Table 1, Groundwater Monitoring Results
Figure 1, Vicinity Map
Figure 2, Site Plan
Figure 3, Potentiometric Map
Figure 4, Concentration Map
GR Field Methods and Procedures
Field Data Sheets
Laboratory Analytical Report and Chain of Custody

CC: Dave Goldberg, Rolls-Royce Engine Services-Oakland Inc
Dale Klettke, Port of Oakland

Table 1

Groundwater Monitoring Results

Rolls-Royce Engine Service Test Facility

6701 Old Earhart Road

Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-1	10/3/07	7.17	3.04	0.00	4.13	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.17	3.02	0.00	4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.17	3.38	0.00	3.79	<50	<50	<100	51[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.17	3.03	0.00	4.14	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.17	2.82	0.00	4.35	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**7.17**	**3.30**	**0.00**	**3.87**	**<50**	**<50**	**<100**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-2	10/3/07	7.03	2.80	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.03	2.94	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.03	3.32	0.00	3.71	<50	<50	<100	97[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.03	2.75	0.00	4.28	<50	<50	<100	410[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.03	2.54	0.00	4.49	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**7.03**	**3.15**	**0.00**	**3.88**	**<50**	**<50**	**<100**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-3	10/2/07	6.73	4.56	0.00	2.17	<50	<50	<100	410	<0.50	<0.50	<0.50	<0.50	1.6[4]	<0.50
	3/14/08	6.73	3.98	0.00	2.75	<50	<50	<100	120[9]	<0.50	<0.50	<0.50	<0.50	0.99	<0.50
	6/26/08	6.73	4.21	0.00	2.52	<50	<50	<100	610[7]	<0.50	1.7	<0.50	<0.50	0.93	<0.50
	9/25/08	6.73	4.25	0.00	2.48	<50	<50	<100	650[16]	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
	12/19/08	6.73	4.25	0.00	2.48	<50	<50	<100	520[18]	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
	3/26/09	**6.73**	**3.82**	**0.00**	**2.91**	**<50**	**<50**	**<100**	**400[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.69**	**<0.50**

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-4	10/2/07[4]	9.79	5.81	0.00	3.98	<50	86	<100	280	<0.50	0.63	<0.50	<0.50	<0.50	<0.50
	3/14/08	9.79	5.82	0.00	3.97	<50	3,300	2,400	3,400[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.79	6.08	0.00	3.71	<50	2,300	1,900	2,700[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.79	5.98	0.00	3.81	<50	1,600	1,400	2,100[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	9.79	5.93	0.00	3.86	<50	<50[19]	<100[19]	440[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**9.79**	**5.65**	**0.00**	**4.14**	**<50**	**720**	**550**	**1,000[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-5	10/2/07	8.35	4.75	0.00	3.60	<50	5,600	11,000	5,300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	8.35	4.40	0.00	3.95	<50	1,200[6]	1,700	1,100[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	8.35	4.68	0.00	3.67	<50	1,400[6]	3,200	2,000[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.35	4.52	0.00	3.83	<50	670[6]	1,200	940[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	8.35	4.43	0.00	3.92	<50	2,100[6]	4,100	1,900[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**8.35**	**4.25**	**0.00**	**4.10**	**<50**	**2,400[6]**	**5,500**	**2,600[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-6	10/2/07	9.51	5.90	0.00	3.61	<50	3,000[6]	7,700	2,500[7]	<0.50	<0.50	0.86	1.1	<0.50	0.53
	3/14/08	9.51	5.55	0.00	3.96	<50	3,600[10]	7,600	2,800[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.51	5.80	0.00	3.71	<50	3,200[10]	9,400	3,200[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.51	5.69	0.00	3.82	<50	3,500[10]	8,800	3,800[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	9.51	5.43	0.00	4.08	<50	1,500[10]	5,500	1,200[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**9.51**	**5.38**	**0.00**	**4.13**	**<50**	**2,400[6]**	**6,800**	**1,800[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**

Table 1

Groundwater Monitoring Results

Rolls-Royce Engine Service Test Facility

6701 Old Earhart Road

Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-7	10/2/07	9.23	5.68	0.00	3.55	<50	12,000[6]	34,000	9,100[7]	<0.50	<0.50	<0.50	<0.50	<0.50	0.76
	3/14/08	9.23	5.32	0.00	3.91	<50	7,900[6]	20,000	5,500[11]	<0.50	<0.50	<0.50	<0.50	<0.50	3.5
	6/26/08	9.23	5.56	0.00	3.67	<50	3,300[6]	10,000	3,300[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.23	5.46	0.00	3.77	<50	5,300[10]	13,000	6,000[16]	<0.50	<0.50	<0.50	<0.50	<0.50	0.98
	12/19/08	9.23	5.38	0.00	3.85	<50	<50[19]	<100[19]	350[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**9.23**	**5.11**	**0.00**	**4.12**	**<50**	**710[6]**	**2,300**	**790[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-8	9/14/07	8.25	4.65	0.00	3.60	<50	790[3]	2,700	1,000[2]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/04	8.25	4.49	0.00	3.76	<50	1,200[6]	4,400	1,800[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.25	4.41	0.00	3.84	<50	<50	130	140[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	8.25	4.31	0.00	3.94	<50	160[6]	840	340[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**8.25**	**4.05**	**0.00**	**4.20**	**<50**	**470[3]**	**1,500**	**570[2]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-9	10/3/07	9.44	5.81	0.00	3.63	<50	7,700	10,000	6,700	<0.50	<0.50	<0.50	<0.50	<0.50[4]	<0.50
	3/14/08	9.44	5.51	0.00	3.93	<50	6,400	8,000	4,000[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.44	5.72	0.00	3.72	<50	1,600[10]	1,800	1,800[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.44	5.59	0.00	3.85	<50	5,900[10]	9,300	6,300[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	9.44	5.43	0.00	4.01	<50	4,100[6]	8,500	4,000[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**9.44**	**5.26**	**0.00**	**4.18**	**<50**	**6,900[6]**	**9,700**	**5,600[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-10	10/3/07	7.51	3.89	0.00	3.62	110	4,200	1,300	4,500	<0.50	<0.50	<0.50	<0.50	<0.50[4]	<0.50
	3/14/08	7.51	3.68	0.00	3.83	53	420	270	420[7]	<0.50	<0.50	<0.50	<0.50	<0.50	0.50
	6/26/08	7.51	3.80	0.00	3.71	120	1,200	1,000	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	5.0
	9/25/08	7.51	3.68	0.00	3.83	<50	3,100[10]	2,200	3,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.51	3.54	0.00	3.97	<50	1,700	1,200	1,900[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**7.51**	**3.36**	**0.00**	**4.15**	**53**	**1,500[8]**	**1,300**	**2,900**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.8**
MW-11	10/3/07	7.60	4.01	0.00	3.59	80	250	490	610	<0.50	<0.50	<0.50	<0.50	<0.50[4]	<0.50
	3/14/08	7.60	3.71	0.00	3.89	61	410[6]	1,200	520[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.60	3.92	0.00	3.68	<50	2,700[10]	7,300	3,600[15]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.60	3.82	0.00	3.78	<50	2,800[10]	5,900	3,800[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.60	3.71	0.00	3.89	<50	1,500[6]	3,700	1,800[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**7.60**	**3.49**	**0.00**	**4.11**	**<50**	**2,300[6]**	**4,200**	**2,800[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-12	10/3/07	7.32	3.61	0.00	3.71	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50[4]	<0.50
	3/14/08	7.32	3.35	0.00	3.97	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.32	3.60	0.00	3.72	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.32	3.50	0.00	3.82	<50	<50	<100	51[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.32	3.09	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
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Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-12 (con't)	**3/26/09**	**7.32**	**3.13**	**0.00**	**4.19**	**<50**	**<50**	**<100**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-13	10/3/07	6.10	2.86	0.00	3.24	160	70[8]	<100	660	<0.50	<0.50	<0.50	<0.50	1.2[4]	1.7
	3/14/08	6.10	1.96	0.00	4.14	350[12]	490	130[13]	1,200	0.89	<0.50	<0.50	<0.50	2.0	8.9
	6/26/08	6.10	2.57	0.00	3.53	720	200[8]	<100	4,100[15]	2.0	<0.50	<0.50	0.60	3.3	3.3
	9/25/08	6.10	2.48	0.00	3.62	600	<200[17]	130[13]	1,900[16]	1.2	<0.50	<0.50	<0.50	2.9	11
	12/19/08	6.10	2.68	0.00	3.42	280	130[8]	<100	1,300[18]	0.89	<0.50	<0.50	<0.50	1.7	4.8
	3/26/09	**6.10**	**2.44**	**0.00**	**3.66**	**310**	**86**	**120[13]**	**1,800[18]**	**0.81**	**<0.50**	**<0.50**	**<0.50**	**1.7**	**2.2**
MW-14	10/2/07	6.42	2.40	0.00	4.02	67	300	870	1,400	<0.50	<0.50	<0.50	<0.50	1.4[4]	6.1
	3/14/08	6.42	2.44	0.00	3.98	50	250[6]	350	500[7]	<0.50	<0.50	<0.50	<0.50	1.7	5.0
	6/26/08	6.42	2.62	0.00	3.80	<50	570[10]	2,700	2,000[15]	<0.50	<0.50	<0.50	<0.50	1.4	3.1
	9/25/08	6.42	2.58	0.00	3.84	<50	510[10]	1,700	1,800[16]	<0.50	<0.50	<0.50	<0.50	1.0	<0.50
	12/19/08	6.42	2.14	0.00	4.28	<50	480[6]	2,100	1,200[18]	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
	3/26/09	**6.42**	**2.23**	**0.00**	**4.19**	**<50**	**79[6]**	**540**	**1,000[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.89**	**<0.50**
MW-15	10/2/07	7.51	4.85	0.00	2.66	<50	99	<100	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.51	4.62	0.00	2.89	<50	<50	<100	88[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-15	6/26/08	7.51	4.81	0.00	2.70	<50	<50	<100	84[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(con't)	9/25/08	7.51	4.81	0.00	2.70	<50	<50	<100	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	7.51	4.67	0.00	2.84	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**7.51**	**4.45**	**0.00**	**3.06**	**<50**	**<50**	**<100**	**110[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-17	9/14/07	0.04	4.10	0.00	-4.06	<50	<50	220	150[2]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	0.04	1.98	0.00	-1.94	<50	<50	<100	84[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08[14]	0.04	4.77	0.00	-4.73	<50	<50	120	110[16]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	0.04	2.24	0.00	-2.20	<50	<50	<100	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**0.04**	**1.85**	**0.00**	**-1.81**	**<50**	**<50**	**<100**	**71[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW-18	10/2/07	7.05	4.15	0.55	3.34**	Not developed or sampled due to presence of SPH									
	3/14/08	7.05	3.62	0.63	3.93**	Not sampled due to presence of SPH									
	6/26/08	7.05	4.11	1.14	3.85**	Not sampled due to presence of SPH									
	9/25/08	7.05	3.77	0.56	3.73**	Not sampled due to presence of SPH									
	12/19/08	7.05	3.30	0.36	4.04**	Not sampled due to presence of SPH									
	3/26/09	**7.05**	**3.28**	**0.55**	**4.21****	**Not sampled due to presence of SPH**									

Table 1

Groundwater Monitoring Results

Rolls-Royce Engine Service Test Facility

6701 Old Earhart Road

Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
NPORD MW-3	9/14/07	8.11	4.43	0.00	3.68	<50	<50	<100	64[2]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	8.11	3.96	0.00	4.15	<50	<50	<100	99[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.11	4.06	0.00	4.05	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	8.11	3.78	0.00	4.33	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**8.11**	**4.22**	**0.00**	**3.89**	**<50**	**<50**	**<100**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
NPORD MW-4	9/14/07	10.06	6.48	0.00	3.58	50	1,000[3]	1,400	2,000[2]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	10.06	6.26	0.00	3.80	<50	360[6]	700	960[7]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	10.06	6.28	0.00	3.78	<50	150[6]	240	820[16]	<0.50	<0.50	<0.50	<0.50	<0.50[4]	<0.50
	12/19/08	10.06	6.15	0.00	3.91	<50	320[10]	640	1,400[18]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**10.06**	**5.91**	**0.00**	**4.15**	**<50**	**95**	**160**	**520[18]**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
QA	9/14/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	10/2/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08[14]	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	7/3/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1

Groundwater Monitoring Results

Rolls-Royce Engine Service Test Facility

6701 Old Earhart Road

Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd[1] (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
QA															
(con't)	9/25/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	**--**	**--**	**--**	**--**	**<50**	**<50**	**<100**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**

Explanation:

TOC = Top of Casing Elevation

DTW = Depth to Water

GWE = Groundwater Elevation

ft = feet

SPH = Separate Phase Hydrocarbons

ppb = parts per billion (µg/L)

NA = Not Analyzed

-- = Not Applicable

QA = Trip Blank

TPHg = Total Petroleum Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

TPHmo = Total Petroleum Hydrocarbons as motor oil

TPHjf = Total Petroleum Hydrocarbons as jet fuel

Analytical Laboratory:

Kiff Analytical LLC (ELAP # 2236)

Analytical Methods:

TPHg/BTEX/MtBE/Napthalene by EPA Method 8260B

TPHd/TPHmo/TPHjf by modified EPA Method 8015

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Explanation: (con't)

B = Benzene

T = Toluene

E = Ethylbenzene

X = total xylenes

MtBE = Methyl tert-Butyl Ether

** = GWE corrected for the presence of SPH [(TOC-DTW) + (SPH thickness x SPH specific gravity)]. Specific gravity of SPH is assumed to be 0.8.

Notes:

TOC elevations surveyed relative to mean sea level by Morrow Surveying (PLS #5161) on October 8, 2007

[1] With Silica Gel Cleanup

[2] Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Jet Fuel

[3] Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Diesel Fuel

[4] Matrix spike/matrix spike duplicate results associated with these samples for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

[5] Due to the formation of an emulsion in this sample, the sample was centrifruged and decanted prior to extraction.

[6] Hydrocarbons present in this sample are higher-boiling than typical Diesel Fuel.

[7] Hydrocarbons present in this sample are higher-boiling than typical Jet Fuel.

[8] Lower boiling hydrocarbons are present in this sample that are atypical for Diesel Fuel.

[9] Discrete peaks present in this sample that are atypical for Jet Fuel.

[10] Some lower-boiling hydrocarbons than Diesel and some higher-boiling hydrocarbons than Diesel are present in this sample.

[11] Both lower-boiling and higher-boiling hydrocarbons than Jet Fuel are present in this sample.

[12] Sample contained primarily compounds not found in typical Gasoline.

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Notes: (con't)

[13] Hydrocarbons present in this sample are lower-boiling than typical Motor Oil

[14] Sample was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4-inch in diameter

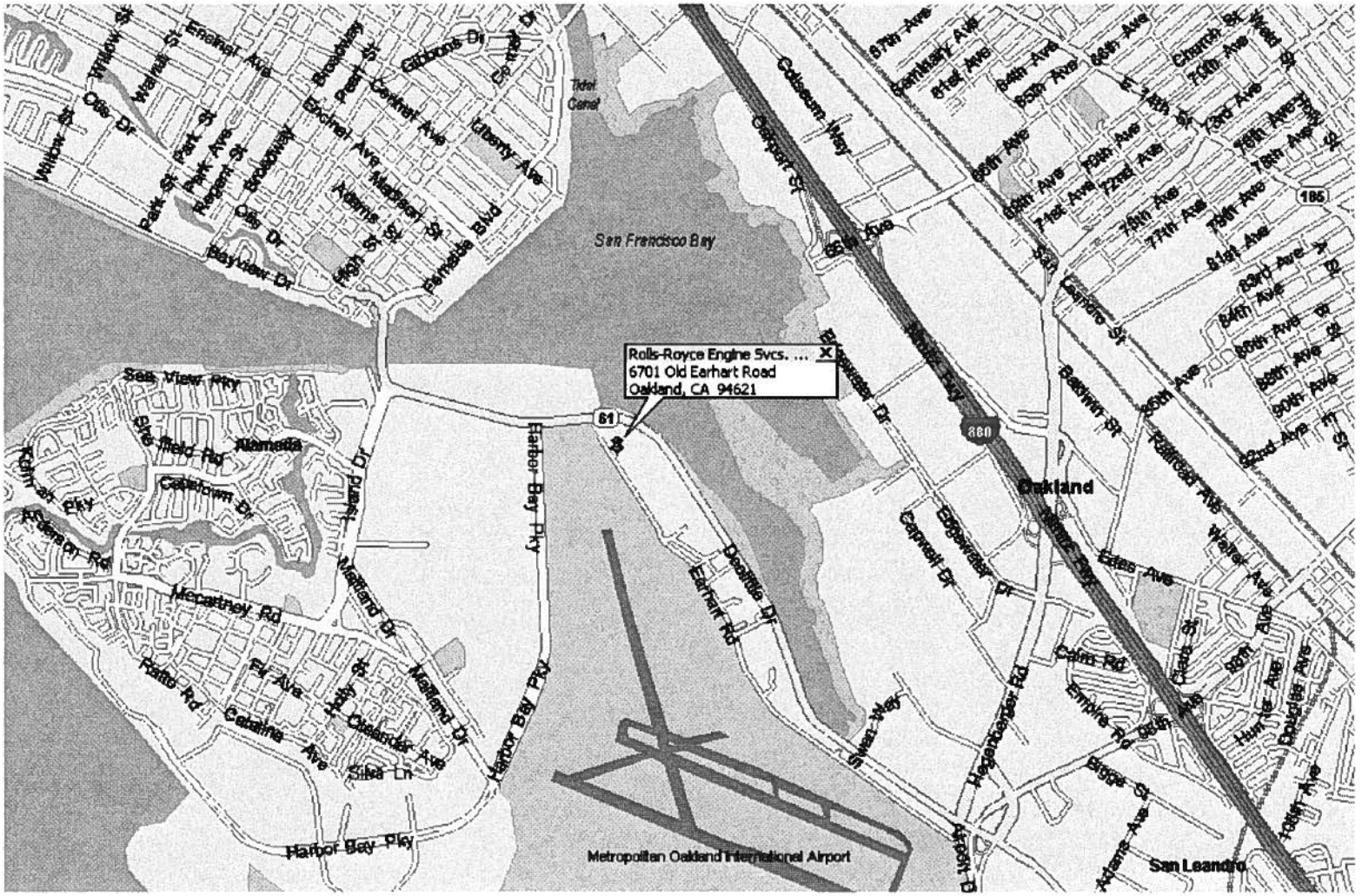
[15] Lower boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.

[16] Chromatographic pattern not typical for Jet Fuel.

[17] Diesel method reporting limit for this sample was increased due to interference from Gasoline range hydrocarbons.

[18] Higher-boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.

[19] Laboratory confirmed results



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6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

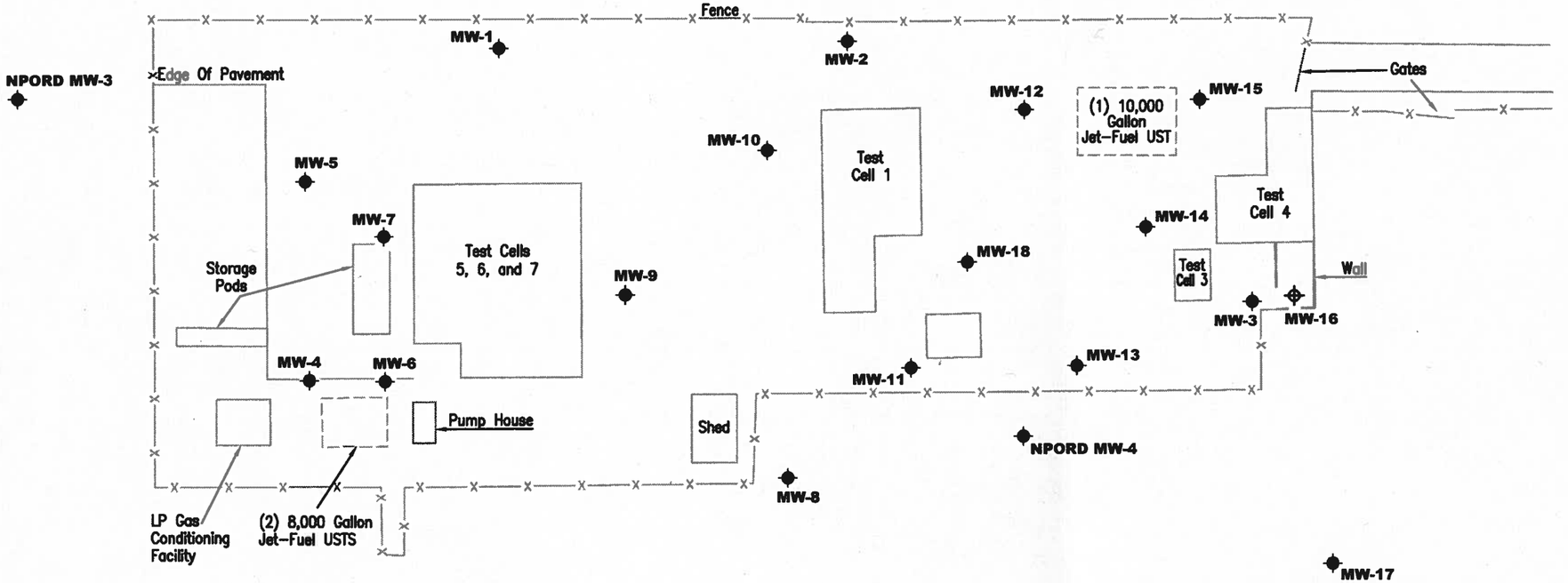
SITE LOCATION MAP
ROLLS-ROYCE ENGINE SERVICES TEST FACILITY
6701 OLD EARHART RD.
OAKLAND, CA

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
25-948218.7		11/13/07	

EXPLANATION

- Groundwater monitoring well
- Proposed monitoring well – not installed location inaccessible by drill rig



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

FIGURE 2

SITE PLAN
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

REVISED DATE

GETTLER-RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER
948218.2

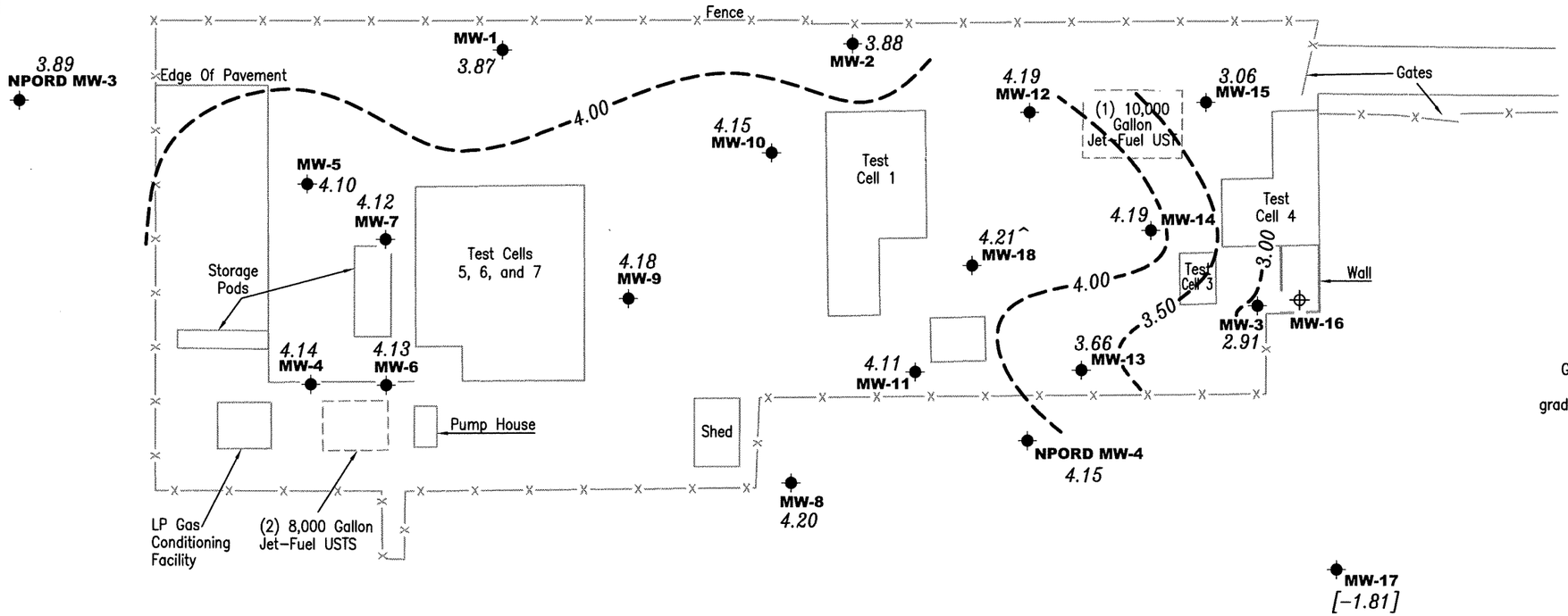
REVIEWED BY

DATE
11/07

FILE NAME: P:\Enviro\Rolls Royce\Q07-Rolls Royce.dwg | Layout Tab: Site Plan

EXPLANATION

- Groundwater monitoring well
- Proposed monitoring well – not installed location inaccessible by drill rig
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level
- -99.99- Groundwater elevation contour, dashed where inferred
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons
- *[99.99]* Not used in contouring



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

FIGURE 3

POTENTIOMETRIC MAP
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

REVISED DATE

DATE
March 26, 2009

GETTLER-RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

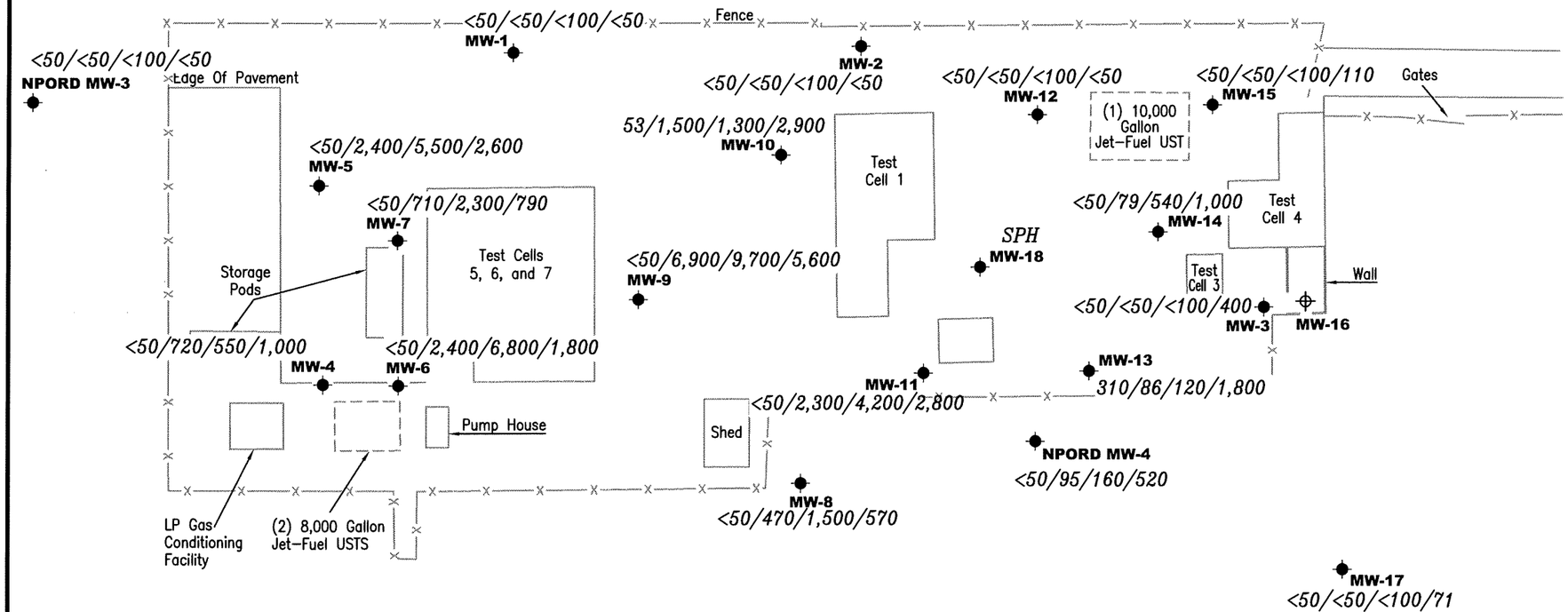
PROJECT NUMBER
948218

REVIEWED BY

FILE NAME: P:\Enviro\Rolls Royce\Q09-Rolls Royce.dwg | Layout Tab: Plot1

EXPLANATION

- Groundwater monitoring well
- Proposed monitoring well – not installed location inaccessible by drill rig
- *A/B/C/D* Total Petroleum Hydrocarbons TPH as Gasoline/TPH as Diesel/ TPH as Motor Oil/TPH as Jet Fuel concentrations in ppb
- *SPH* Separate Phase Hydrocarbons



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

FIGURE 4

DISSOLVED HYDROCARBON CONCENTRATION MAP
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

DATE March 26, 2009

REVISED DATE

GETTLER-RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER 948218

REVIEWED BY

FILE NAME: P:\Enviro\Rolls Royce\Q09-Rolls Royce.dwg | Layout Tab: Con1

STANDARD OPERATING PROCEDURE - QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analyses by the analytical laboratory. Prior to sample collection, the type of analyses to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analyses is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is recorded in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH, and electrical conductivity are measured a minimum of three times during purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include job number, sample identification, collection date and time, analyses, preservative (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4 ^{o}C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery to the laboratory.

The chain of custody includes the job number, type of preservation, if any, analyses requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory-supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

WELL CONDITION STATUS SHEET

Client/Facility #: **Rolls Royce Engine Test**
Site Address: **6701 Old Earhart Road**
City: **Oakland, CA**

Job # **25-948218.1**
Event Date: 3/26/09
Sampler: JH

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-4	OK	—	—	—	—	—	→	N	N	8" BL	N
~~MW-5~~	~~etc~~	—	—	—	—	—	—	—	—	—	—
MW-6	OK	—	—	—	—	—	→			8" BL	
MW-7	OK	—	—	—	—	—	→			"	
MW-8	OK	—	—	—	—	—	→			"	
NPoint-3	OK	—	—	—	—	—	→		✓	Monument	
NPoint-4	OK	—	—	—	—	—	→			12" Morrison	✓

Comments

WELL CONDITION STATUS SHEET

Client/Facility #: **Rolls Royce Engine Test**
Site Address: **6701 Old Earhart Road**
City: **Oakland, CA**

Job # **25-948218.1**
Event Date: 3-26-09
Sampler: AW

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-17	OK	→	→	→	→	→	→	N	N	Morrison / 8" / 2	
MW-15	OK	→	→	→	→	→	→	↓	↓	↓	
MW-12	OK	→	→	→	→	→	→	↓	↓	↓	
MW-14	OK	→	→	→	→	→	→	↓	↓	↓	
MW-3	OK	OK	2M	2B	OK	→	→	↓	↓	Boart Longyr / 8" / 3	
MW-13	OK	→	→	→	→	→	→	↓	↓	Morrison / 12" / 2	
MW-18	OK	→	2M	OK	→	→	→	↓	↓	Morrison / 8" / 2	

Comments

WELL CONDITION STATUS SHEET

Client/Facility #: **Rolls Royce Engine Test**
Site Address: **6701 Old Earhart Road**
City: **Oakland, CA**

Job # **25-948218.1**
Event Date: 3-26-09
Sampler: SH

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-5	ok			S						Morrison/8"/2	
MW-1	ok			3S	ok					BL/8"/3	
MW2	ok			3S	ok					2	
MW-10	ok									Morrison/8"/2	
MW-11	ok									Morrison/8"/2	
MW-9	ok									2	

Comments

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test | Job Number: 25-948218.1
Site Address: 6701 Old Earhart Road | Event Date: 3-26-09 (inclusive)
City: Oakland, CA | Sampler: SH

Well ID: MW-1 | Date Monitored: 3-26-09
Well Diameter: 2 | 4 in.
Total Depth: 7.46 ft.
Depth to Water: 3.30 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.16 xVF 1.7 = 0.71 x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.13

Purge Equipment:
- Disposable Bailer: X
- Stainless Steel Bailer:
- Stack Pump:
- Suction Pump:
- Grundfos:
- Peristaltic Pump:
- QED Bladder Pump:
- Other:

Sampling Equipment:
- Disposable Bailer: X
- Pressure Bailer:
- Discrete Bailer:
- Peristaltic Pump:
- QED Bladder Pump:
- Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1003 | Weather Conditions: Clear
Sample Time/Date: 1035 / 3-26-09 | Water Color: Tan | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 3.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1007	1.5	7.53	out of range	18.3		
1010	3	7.47	11	18.1		
1014	4	7.39	11	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**
Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)
City: **Oakland, CA** Sampler: SH

Well ID MW-2 Date Monitored: 3-26-09
Well Diameter 2 in.
Total Depth 16.78 ft.
Depth to Water 3.15 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.63 xVF .17 = 1.417 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.88

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1051 Weather Conditions: Clear
Sample Time/Date: 1120 / 3-26-09 Water Color: Clear Odor: (Y) / N Bay Mud odor (slight)
Approx. Flow Rate: — gpm. Sediment Description: light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 4.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1055	1.5	7.39	out of Rang	18.1		
1059	3.0	7.26	"	18.3		
1104	4.5	7.25	"	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID MW-3 Date Monitored: 3-26-09

Well Diameter (2)4 in.

Total Depth 12.06 ft.

Depth to Water 3.82 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

8.24 xVF .17 = 1.40 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.47

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1200 Weather Conditions: Sunny

Sample Time/Date: 1235 / 3-26-09 Water Color: Cloudy Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: Cloudy

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 5.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1207	1.5	6.99	out of range	17.4		
1215	3.0	6.99	↓	17.2		
1222	4.5	7.02	↓	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**
Site Address: **6701 Old Earhart Road** Event Date: 3/26/09 (inclusive)
City: **Oakland, CA** Sampler: JH

Well ID MW-4
Well Diameter (2)/4 in.
Total Depth 9.89 ft.
Depth to Water 5.65 ft.
Date Monitored: 3/26/09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.24 xVF .17 = .72 x3 case volume = Estimated Purge Volume: 2.16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.49

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0945 Weather Conditions: Clear
Sample Time/Date: 1005 / 3/26/09 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0947	.75	7.55	1734	17.7		
0950	1.5	7.31	1709	17.4		
0953	2.25	7.25	1654	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: SH

Well ID MW-5

Well Diameter 2 4 in.

Total Depth 9.87 ft.

Depth to Water 4.25 ft.

Date Monitored: 3-26-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

5.62 xVF 0.17 = 1 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.37

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0911 Weather Conditions: Clear

Sample Time/Date: 0940 / 3-26-09 Water Color: Gray Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: heavy

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 4.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0915	1	7.76	2969	19.6		
0919	2	7.73	2972	19.3		
0923	3	7.59	2983	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test | Job Number: 25-948218.1
Site Address: 6701 Old Earhart Road | Event Date: 3/26/09 (inclusive)
City: Oakland, CA | Sampler: JH

Well ID: MW-6 | Date Monitored: 3/26/09
Well Diameter: (2)/4 in.
Total Depth: 10.00 ft.
Depth to Water: 5.38 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.62 xVF .17 = .78 x3 case volume = Estimated Purge Volume: 2.35 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.30

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): 0910 | Weather Conditions: Clear
Sample Time/Date: 0935 / 3/26/09 | Water Color: Cloudy | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? No | If yes, Time: _____ Volume: _____ gal. | DTW @ Sampling: 6.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0912	.75	7.32	2040	18.7		
0915	1.5	7.20	2017	18.2		
0918	2.25	7.15	2011	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3/26/09 (inclusive)

City: **Oakland, CA** Sampler: JH

Well ID MW-7 Date Monitored: 3/26/09

Well Diameter (2)4 in.

Total Depth 10.00 ft.

Depth to Water 5.11 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.89 xVF .17 = .83 x3 case volume = Estimated Purge Volume: 2.49 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.08

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): 1315 Weather Conditions: Clear

Sample Time/Date: 1340 / 3/26/09 Water Color: clear Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: NAV

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1318	.75	7.49	887	16.1		
1321	1.5	7.38	892	16.4		
1323	2.5	7.35	905	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**
Site Address: **6701 Old Earhart Road** Event Date: 3/26/09 (inclusive)
City: **Oakland, CA** Sampler: JH

Well ID MW-8
Well Diameter ⓓ4 in.
Total Depth 9.98 ft.
Depth to Water 4.05 ft.
Date Monitored: 3/26/09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

5.93 xVF .17 = 1.00 x3 case volume = Estimated Purge Volume: 3.02 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.23

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1030 Weather Conditions: clear
Sample Time/Date: 1055 / 3/26/09 Water Color: clear Odor: Ⓨ / N 1.1 Hr
Approx. Flow Rate: — gpm. Sediment Description: 1.1 Hr
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)
1032	1	7.39	out of Range	17.7		
1034	2	7.22	↓	18.4		
1036	3	7.04		18.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: SH

Well ID MW-9

Well Diameter (2) 4 in.

Total Depth 9.98 ft.

Depth to Water 5.26 ft.

Date Monitored: 3-26-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.72 xVF .17 = 0.80 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.20

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1323 Weather Conditions: Clear

Sample Time/Date: 1355 / 3-26-09 Water Color: Grey Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: heavy

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 5.23

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1327	1	7.62	Out of Range	17.3		
1330	2	7.39	"	16.4		
1334	2.5	7.46	"	17.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: SH

Well ID MW-10 Date Monitored: 3-26-09

Well Diameter (2) 4 in.

Total Depth 10.11 ft.

Depth to Water 3.36 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

6.75 xVF .17 = 1.15 x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.71

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1136 Weather Conditions: Clear

Sample Time/Date: 1215 / 3-26-09 Water Color: Grey Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: Light

Did well de-water? NO If yes, Time: — Volume: 1 gal. DTW @ Sampling: 3.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1140	1.5	8.01	out of Range	17.6		
1145	3	8.01	↓	17.7		
1151	4	7.93		17.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: JH

Well ID MW-11

Well Diameter 2 4 in.

Total Depth 10.00 ft.

Depth to Water 3.49 ft.

Date Monitored: 3-26-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

6.51 xVF .17 = 1.11 x3 case volume = Estimated Purge Volume: 3.3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.80

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1239 Weather Conditions: Clear

Sample Time/Date: 1315 / 3-26-09 Water Color: Grey Odor: (Y) / N Strong

Approx. Flow Rate: — gpm. Sediment Description: Heavy

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 4.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1246	1.0	7.83	out of Range	17.6		
1249	2.5	7.65	"	17.3		
1252	3.5	7.49	"	17.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID MW-12 Date Monitored: 3-26-09

Well Diameter 4 in.

Total Depth 9.86 ft.

Depth to Water 3.13 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

6.73 xVF .17 = 1.14 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.48

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): 1035 Weather Conditions: Sunny

Sample Time/Date: 1100 / 3-26-09 Water Color: Cloudy Odor: Y (N)

Approx. Flow Rate: — gpm. Sediment Description: Cloudy

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 4.41

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - ~~µS~~)	Temperature (~~C~~ / F)	D.O. (mg/L)	ORP (mV)
1038	1.0	7.31	Out of range	16.7		
1043	2.0	7.37	↓	16.8		
1046	3.5	7.40	↓	16.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID MW-13 Date Monitored: 3-26-09

Well Diameter 2 (4) in.

Total Depth 9.50 ft.

Depth to Water 2.44 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.06 xVF .66 = 4.66 x3 case volume = Estimated Purge Volume: 14.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.85

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	✓
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1250 Weather Conditions: Sunny

Sample Time/Date: 1330 / 3-26-09 Water Color: yellow Odor: Y / (N)

Approx. Flow Rate: 1-2 gpm. Sediment Description: Clear

Did well de-water? Y If yes, Time: 1304 Volume: ~11.0 gal. DTW @ Sampling: 3.37

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1255	5.0	6.95	out of Range	17.1		
1303	10.0	7.13	out of Range	16.7		
	14.0					

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**
Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)
City: **Oakland, CA** Sampler: AW

Well ID MW-14
Well Diameter 2 4 in.
Total Depth 10.04 ft.
Depth to Water 2.23 ft.
7.81 xVF .17 = 1.32 x3 case volume = Estimated Purge Volume: 4.0 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.79

Date Monitored: 3-26-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1110 Weather Conditions: Sunny
Sample Time/Date: 1135 / 3-26-09 Water Color: Cloudy Odor (Y / N) Slight
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? ✓ If yes, Time: — Volume: — gal. DTW @ Sampling: 3.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1115	1.5	7.72	out of range	16.5		
1120	3.0	7.80	↓	15.6		
1125	4.0	7.82	↓	15.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID MW-15 Date Monitored: 3-26-09

Well Diameter 2 4 in.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Total Depth 9.95 ft.

Depth to Water 4.45 ft. ☐ Check if water column is less then 0.50 ft.

5.50 xVF .17 = 0.93 x3 case volume = Estimated Purge Volume: 3.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.55

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1000 Weather Conditions: Sunny

Sample Time/Date: 1025 / 3-26-09 Water Color: Cloudy Odor: Y / N

Approx. Flow Rate: — gpm. Sediment Description: Cloudy

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 5.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1004	1.0	7.25	Out of range	16.5		
1007	2.0	7.38	↓	16.5		
1010	3.0	7.39	↓	16.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-15	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID mw-17 Date Monitored: 3-26-09

Well Diameter 2 4 in.

Total Depth 9.79 ft.

Depth to Water 1.85 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.94 xVF .17 = 1.35 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.44.

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0925 Weather Conditions: Sunny

Sample Time/Date: 0950 / 3-26-09 Water Color: tinted Odor: Y / N

Approx. Flow Rate: — gpm. Sediment Description: Clear

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 3.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0929	1.5	6.99	Out of range	14.9		
0935	3.0	7.13	↓	15.6		
0940	4.0	7.16		15.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
mw-17	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3-26-09 (inclusive)

City: **Oakland, CA** Sampler: AW

Well ID MW-18

Well Diameter 2 4 in.

Total Depth 9.92 ft.

Depth to Water 3.28 ft.

Date Monitored: 3-26-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

6.64 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Sampling Equipment:

Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: 1340 (2400 hrs)
Time Completed: 1400 (2400 hrs)
Depth to Product: 2.73 ft
Depth to Water: 3.28 ft
Hydrocarbon Thickness: .55 ft
Visual Confirmation/Description: Dark Oily
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: / ~~gal~~
Amt Removed from Well: 300mL ~~gal~~
Water Removed: 300mL
Product Transferred to: Drum on site

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: **Y / N** _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: SPH - bailed product

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3/26/09 (inclusive)

City: **Oakland, CA** Sampler: JH

Well ID NPORDMW-3 Date Monitored: 3/26/09

Well Diameter 2(4) in.

Total Depth 16.38 ft.

Depth to Water 4.22 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.16 xVF .66 = 8.02 x3 case volume = Estimated Purge Volume: 24.07 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.65

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1215 Weather Conditions: Clear

Sample Time/Date: 1255 / 3/26/09 Water Color: Cloudy Odor: Y (N)

Approx. Flow Rate: 1 – gpm. Sediment Description: 1.3 ft

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1223	8	7.40	3979	17.0		
1231	16	7.36	out of Range	16.7		
1239	24	7.30	↓	16.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
NPORDMW-3	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Rolls Royce Engine Test** Job Number: **25-948218.1**

Site Address: **6701 Old Earhart Road** Event Date: 3/26/09 (inclusive)

City: **Oakland, CA** Sampler: JH

Well ID NPORDMW-4 Date Monitored: 3/26/09

Well Diameter (2)4 in.

Total Depth 18.20 ft.

Depth to Water 5.91 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.29 xVF .17 = 2.08 x3 case volume = Estimated Purge Volume: 6.26 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.36

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1115 Weather Conditions: Clear

Sample Time/Date: 1150 / 3/26/09 Water Color: Clear Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: 1.0 ft

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1120	2	7.83	out of Purge	17.7		
1126	4	7.49	1	17.4		
1133	6	7.36	1	17.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
NPORDMW-4	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROw/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: 2-tubes in well ✓

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 19 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **QA** Matrix : Water Lab Number : 67913-01
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	92.0		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	04/01/2009
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	86.4		% Recovery	M EPA 8015	04/01/2009

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-1** Matrix : Water Lab Number : 67913-02
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	90.5		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	117		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	88.6		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-2** Matrix : Water Lab Number : 67913-03
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	89.4		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/01/2009
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	121		% Recovery	M EPA 8015	04/01/2009
Octacosane (Diesel Surrogate)	89.4		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-3** Matrix : Water Lab Number : 67913-04
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**0.69**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	89.8		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**400**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	117		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	87.1		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-4** Matrix : Water Lab Number : 67913-05
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	89.6		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**720**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**1000**	50	ug/L	M EPA 8015	04/01/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**550**	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	87.6		% Recovery	M EPA 8015	04/01/2009

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Sample : **MW-5** Matrix : Water Lab Number : 67913-06
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	94.5		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**2400**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**2600**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**5500**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	81.0		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	81.8		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-6** Matrix : Water Lab Number : 67913-07
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	04/01/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	04/01/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	04/01/2009
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	04/01/2009
4-Bromofluorobenzene (Surr)	93.3		% Recovery	EPA 8260B	04/01/2009
TPH as Diesel (Silica Gel)	**2400**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**1800**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**6800**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	87.6		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-7** Matrix : Water Lab Number : 67913-08
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	91.4		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**710**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**790**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**2300**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	122		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	96.8		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-8** Matrix : Water Lab Number : 67913-09
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	90.5		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**470**	50	ug/L	M EPA 8015	04/02/2009
(Note: Discrete peaks, higher boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Jet Fuel	**570**	50	ug/L	M EPA 8015	04/01/2009
(Note: Discrete peaks, higher boiling hydrocarbons present, atypical for Jet Fuel.)					
TPH as Motor Oil	**1500**	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	121		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	88.8		% Recovery	M EPA 8015	04/01/2009

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Sample : **MW-9** Matrix : Water Lab Number : 67913-10
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	87.9		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**6900**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**5600**	50	ug/L	M EPA 8015	04/01/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**9700**	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	91.0		% Recovery	M EPA 8015	04/01/2009

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Sample : **MW-10** Matrix : Water Lab Number : 67913-11
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**53**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**1.8**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**1500**	50	ug/L	M EPA 8015	04/02/2009
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel)					
TPH as Jet Fuel	**2900**	50	ug/L	M EPA 8015	04/02/2009
TPH as Motor Oil	**1300**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	119		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	95.1		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-11** Matrix : Water Lab Number : 67913-12
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	92.6		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**2300**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**2800**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**4200**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	77.1		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	80.4		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-12** Matrix : Water Lab Number : 67913-13
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	120		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	88.5		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-13** Matrix : Water Lab Number : 67913-14
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.81**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**1.7**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**310**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**2.2**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**86**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**1800**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**120**	100	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are lower-boiling than typical Motor Oil)					
Octacosane (Silica Gel Surr)	101		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	87.5		% Recovery	M EPA 8015	04/02/2009

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Sample : **MW-14** Matrix : Water Lab Number : 67913-15
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**0.89**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	93.8		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**79**	50	ug/L	M EPA 8015	04/02/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**1000**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**540**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	91.5		% Recovery	M EPA 8015	04/02/2009

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-15** Matrix : Water Lab Number : 67913-16
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/03/2009
TPH as Jet Fuel	**110**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	98.9		% Recovery	M EPA 8015	04/03/2009
Octacosane (Diesel Surrogate)	92.6		% Recovery	M EPA 8015	04/02/2009

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-17** Matrix : Water Lab Number : 67913-17
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	93.9		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	**71**	50	ug/L	M EPA 8015	04/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	100		% Recovery	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	88.0		% Recovery	M EPA 8015	04/02/2009

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **NPord MW-3** Matrix : Water Lab Number : 67913-18
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	04/03/2009
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	04/03/2009
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	04/03/2009
Octacosane (Silica Gel Surr)	90.7		% Recovery	M EPA 8015	04/03/2009
Octacosane (Diesel Surrogate)	90.3		% Recovery	M EPA 8015	04/03/2009

KIFF Analytical LLC

Report Number : 67913
Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **NPord MW-4** Matrix : Water Lab Number : 67913-19
Sample Date :03/26/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	94.8		% Recovery	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	03/31/2009
TPH as Diesel (Silica Gel)	**95**	50	ug/L	M EPA 8015	04/03/2009
TPH as Jet Fuel	**520**	50	ug/L	M EPA 8015	04/01/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel)					
TPH as Motor Oil	**160**	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	99.3		% Recovery	M EPA 8015	04/03/2009
Octacosane (Diesel Surrogate)	87.5		% Recovery	M EPA 8015	04/01/2009

Report Number : 67913

QC Report : Method Blank Data

Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	04/01/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	04/01/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	04/01/2009
Octacosane (Diesel Surrogate)	90.3		%	M EPA 8015	04/01/2009
Octacosane (Silica Gel Surr)	91.6		%	M EPA 8015	04/01/2009
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	04/02/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	04/02/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	04/02/2009
Octacosane (Diesel Surrogate)	91.3		%	M EPA 8015	04/02/2009
Octacosane (Silica Gel Surr)	86.1		%	M EPA 8015	04/02/2009
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	04/03/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	04/03/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	04/03/2009
Octacosane (Diesel Surrogate)	96.3		%	M EPA 8015	04/03/2009
Octacosane (Silica Gel Surr)	105		%	M EPA 8015	04/03/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/30/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/30/2009
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	03/30/2009
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	03/30/2009
Toluene - d8 (Surr)	94.7		%	EPA 8260B	03/30/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	99.9		%	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	92.6		%	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	99.8		%	EPA 8260B	03/31/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/31/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/31/2009
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	03/31/2009
4-Bromofluorobenzene (Surr)	90.8		%	EPA 8260B	03/31/2009
Toluene - d8 (Surr)	100		%	EPA 8260B	03/31/2009

Report Number : 67913

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	871	844	ug/L	M EPA 8015	4/1/09	87.1	84.4	3.13	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	981	963	ug/L	M EPA 8015	4/1/09	98.1	96.3	1.86	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	924	938	ug/L	M EPA 8015	4/2/09	92.4	93.8	1.53	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	964	996	ug/L	M EPA 8015	4/2/09	96.4	99.6	3.21	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	897	881	ug/L	M EPA 8015	4/3/09	89.7	88.1	1.78	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	951	960	ug/L	M EPA 8015	4/3/09	95.1	96.0	0.927	70-130	25
Benzene	67920-03	<0.50	39.3	39.3	37.2	36.4	ug/L	EPA 8260B	3/30/09	94.6	92.4	2.34	70-130	25
Methyl-t-butyl ether	67920-03	<0.50	40.7	40.7	39.0	39.0	ug/L	EPA 8260B	3/30/09	95.8	95.7	0.180	70-130	25
Toluene	67920-03	<0.50	40.1	40.1	37.6	36.5	ug/L	EPA 8260B	3/30/09	93.6	91.0	2.90	70-130	25
Benzene	67920-08	<0.50	39.3	39.3	37.8	36.4	ug/L	EPA 8260B	3/30/09	96.2	92.4	4.00	70-130	25
Methyl-t-butyl ether	67920-08	<0.50	40.7	40.7	39.7	39.6	ug/L	EPA 8260B	3/30/09	97.5	97.2	0.271	70-130	25
Toluene	67920-08	<0.50	40.1	40.1	39.8	38.3	ug/L	EPA 8260B	3/30/09	99.1	95.4	3.77	70-130	25
Benzene	67916-06	<0.50	39.3	39.3	36.6	35.4	ug/L	EPA 8260B	3/31/09	93.0	90.0	3.24	70-130	25
Methyl-t-butyl ether	67916-06	<0.50	40.7	40.7	37.4	36.9	ug/L	EPA 8260B	3/31/09	91.9	90.6	1.37	70-130	25
Toluene	67916-06	<0.50	40.1	40.1	38.4	37.3	ug/L	EPA 8260B	3/31/09	95.6	93.0	2.71	70-130	25

Report Number : 67913

QC Report : Laboratory Control Sample (LCS)

Date : 04/03/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/30/09	92.0	70-130
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	3/30/09	93.1	70-130
Toluene	40.0	ug/L	EPA 8260B	3/30/09	90.8	70-130
Benzene	40.1	ug/L	EPA 8260B	3/30/09	92.8	70-130
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	3/30/09	95.1	70-130
Toluene	40.1	ug/L	EPA 8260B	3/30/09	95.7	70-130
Benzene	40.2	ug/L	EPA 8260B	3/31/09	88.8	70-130
Methyl-t-butyl ether	40.9	ug/L	EPA 8260B	3/31/09	89.4	70-130
Toluene	40.2	ug/L	EPA 8260B	3/31/09	89.2	70-130

☐ Yes
☐ No

67913

Chain-of-Custody-Record

Direct Bill To:
Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr.
Rancho Cordova, CA
95670

Facility: Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670
Project Contact: (Name) Geoffrey Risse e-mail grisse@grinc.com
(Phone) 916-631-1300x12 (Fax) 916-631-1317

(Name) Geoffrey Risse
(Phone) 916-631-1300x12
Laboratory Name: Kiff Analytical
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by: (Name) Jim Heaer
Signature:

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT ☐ ID

Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-DRO with Silica Gel Cleanup (8015) (HCL)	TPH-GRO/BTEX/MTBE/ Naphthalene (8260) (HCL)	TPH-Jet A Fuel (8015) (NP)	TPH-MO (8015) (NP)	TPH-DRO with Silica Gel Cleanup (8015) (NP)	TPH-GRO/BTEX/MTBE/ Naphthalene (8260) (NP)	Remarks / Lab Sample No.
QA	2	W	3/26/09	X	X	X	X	X				01
MW-1	7		1035	X	X	X	X					02
MW-2			1120	X	X	X	X					03
MW-3			1235	X	X	X	X					04
MW-4			1005	X	X	X	X					05
MW-5			0940	X	X	X	X					06
MW-6			0935	X	X	X	X					07
MW-7			1340	X	X	X	X					08
MW-8			1055	X	X	X	X					09
MW-9			1355	X	X	X	X					10
MW-10			1215	X	X	X	X					11
MW-11			1315	X	X	X	X					12
MW-12			1100	X	X	X	X					13
MW-13	↓	↓	1330	X	X	X	X					14

1-12

SAMPLE RECEIPT
Temp °C 2 - 8 Therm. ID# IR-5
Initial JYR Date 032709
Time 1842 Coolant present: (Yes) No

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
	Gettler-Ryan	3/26/09 1700		C-R	3/27/09 1030	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced (Y/N)
			Kiff Analytical		032709 1530	

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
(As Contracted)

☐ Yes
☐ No

67913

Chain-of-Custody-Record

Direct Bill To:
Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr.
Rancho Cordova, CA
95670

Facility: Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670
Project Contact: (Name) Geoffrey Risse e-mail grisse@grinc.com
(Phone) 916-631-1300x12 (Fax) 916-631-1317

(Name) Geoffrey Risse
(Phone) 916-631-1300x12
Laboratory Name: Kiff Analytical
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by: (Name) Jim Heiser
Signature:

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT ☐ ID

Sample I.D.	Number of Containers	Matrix S= Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-DRO with Silica Gel Cleanup (8015) (HCL)	TPH-GRO/BTEX/MTBE/ Naphthalene (8260) (HCL)	TPH-Jet A Fuel (8015) (NP)	TPH-MO (8015) (NP)	TPH-DRO with Silica Gel Cleanup (8015) (NP)	TPH-GRO/BTEX/MTBE/ Naphthalene (8260) (NP)	Remarks / Lab Sample No.
MW-14	7	W	3/26/09 1135	X	X	X	X					15
MW-15			1025	X	X	X	X					16
MW-17			0950	X	X	X	X					17
NPORL MW-3			1255	X	X	X	X					18
NPORL MW-1			1150	X	X	X	X					19

Remarks: 1 of 2

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
	Gettler-Ryan	3/26/09 1700		G-R	3/27/09 1230	Y
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced (Y/N)
			Kiff Analytical		032709 1530	

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
(As Contracted)