Andrew E. Cullen
Vice President
Energy and Telecommunication Services

October 11, 2010

Mr. Paresh Khatri
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: 2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001

Dear Mr. Khatri:

Subsequent to this cover letter is the 3rd quarter well monitoring report for the former Penske Truck Leasing site located at 725 Julie Ann Way, Oakland, CA.

As an authorized representative of our company Penske Truck Leasing, the following statement is listed below:

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

Please let me know if you have any questions or concerns.

Sincerely,

Andrew E. Cullen

aec/kmy

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October 1, 2010

Mr. Paresh Khatri
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

(To Be Sent Via Electronic Upload to Alameda County ftp)

Re: 2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001

Dear Mr. Khatri:

Stantec Consulting Corporation (Stantec), on behalf of Penske Truck Leasing Company (Penske), has prepared this *2010 Semi-Annual Groundwater Monitoring Report* for the Former Penske Truck Leasing Facility (site) located at 725 Julie Ann Way in Oakland, California. There are ten onsite groundwater monitoring wells associated with the site. Well construction details are presented on Table 1. This report documents the procedures and results of the monitoring and sampling events conducted in the Second and Third Quarter 2010.

QUARTERLY GROUNDWATER MONITORING

Groundwater levels were measured by Blaine Tech Services, Inc. (Blaine Tech) in all ten wells in the second quarter 2010 (May 10, 2010) and in the third quarter 2010 (July 16, 2010). An oil/water interface meter graduated to 0.01 foot was used to determine the presence of free-phase product. No free-phase fuel product was measured in any of the wells. Depth-to-groundwater measurements and surveyed wellhead top-of-casing elevations were used to calculate groundwater surface elevations. The water-level measurements taken during the second and third quarters of 2010 are presented in Table 2.

SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING PROCEDURES

On July 16, 2010, wells MW-1R, MW-2, MW-4, MW-7R, MW-8, OW-1, and OW-2 were sampled by Blaine Tech. Prior to sampling, wells were purged of approximately three well casing volumes using a diaphragm pump fitted with new, disposable tubing for each well. During purging, the evacuated water was periodically measured for pH, electrical conductivity, and temperature, and visually inspected for color, presence of free product, and turbidity. Downhole dissolved oxygen (DO) measurements and oxidation reduction potential (ORP) measurements were recorded pre- and post-purging at each well. Physical parameters, purge volumes for each well, visual observations, and sampling notes were recorded on field data sheets and are included in Appendix A.

Upon removal of the appropriate purge volume and stabilization of the measured field parameters, samples were collected from each well using a new, disposable bailer. Samples were collected into laboratory-supplied containers and stored cold during delivery to a state-certified analytical laboratory.

ANALYTICAL PROGRAM

Groundwater samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as diesel (TPHd) by U.S. Environmental Protection Agency (US EPA) Method 8015M with silica gel treatment;
- TPH as gasoline (TPHg) by US EPA Method 8015M (soil) and US EPA Method 8260B (groundwater);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by US EPA Method 8260B; and,
- Ethylene dichloride (EDC) and ethylene dibromide (EDB) by US EPA Method 8260B.

WASTE MANAGEMENT AND DISPOSAL

Purge/rinsate water generated during groundwater sampling activities was stored in California DOT-approved 55-gallon steel drums and left onsite pending characterization and disposal.

RESULTS

Groundwater Monitoring Results

Groundwater elevation data from the May 10, 2010, and July 16, 2010, are presented in Table 2. The Second and Third Quarter potentiometric surface maps are included as Figures 3 and 4, respectively.

May 2010 depth-to-groundwater measurements ranged from 4.13 to 5.52 feet below the top of casing, corresponding to a range of groundwater elevations of -0.05 to 0.96 feet relative to the local City of Oakland datum. Groundwater flow direction was toward the southwest.

July 2010 depth-to-groundwater measurements ranged from 4.31 to 5.90 feet below the top of casing, corresponding to a range of groundwater elevations of -0.32 to 0.92 feet relative to the local City of Oakland datum. Groundwater flow direction was toward the southwest.

No sheen or measurable fuel product was observed during the Second or Third Quarter monitoring events.

Groundwater Sample Analytical Results

Field parameter data of pH, DO, and ORP are presented in Table 3 and groundwater sample analytical results are presented in Table 4. Results for TPHd, TPHg, BTEX, and MTBE are shown on Figure 5. The following summarizes groundwater chemical results:

- TPHd was reported in all seven groundwater samples at concentrations ranging from 360 micrograms per liter (µg/L; well MW-8) to 12,000 µg/L (well MW-4). TPHd concentrations reported in wells OW-1 and OW-2 increased from the previous sampling event in April 2009. The TPHd concentration reported in replacement well MW-1R is consistent with historical data from MW-1. The TPHd concentration reported in replacement well MW-7R is lower than historical data from well MW-7.

- TPHg was reported in four of seven groundwater samples at concentrations ranging from 52 µg/L (well MW-7R) to 120 µg/L (wells MW-1R and MW-4). Reported concentrations of TPHg are generally consistent with historical data. The reported concentration in well OW-2 represents a slight decrease compared to historical data, and this event represents the first time TPHg has not been detected above the reporting limit in OW-1.

- Benzene was reported only in the sample from well MW-7R, at a concentration of 0.63 µg/L.

- MTBE was reported in five of the seven groundwater samples at concentrations ranging from 1.6 µg/L (well MW-4) to 5.1 µg/L (well OW-1). Toluene, ethylbenzene, EDC, and EDB were not detected at or above laboratory reporting limits in any of the seven groundwater samples analyzed.

- DO values ranged from 1.07 mg/L to 2.91 mg/L.

CONCENTRATION TRENDS

The following is a summary of concentration trends for each of the chemical constituents.

TPHd – A plot depicting TPHd concentrations over time is included as Figure 5.

- TPHd concentrations in wells MW-8, MW-2, OW-1, and OW-2 have increased since the previous sampling event.

- TPHd concentrations reported at replacement wells MW-1R and MW-7R are lower than those reported at previous wells MW-1 and MW-7, although the concentration in well MW-1R is consistent with historical data.

- As illustrated on Figure 5, concentrations of TPHd in wells MW-1, MW-2, MW-4, MW-7, and MW-8 have decreased from historical high concentrations observed before Fenton's treatment in October 2000, while concentrations have increased in wells OW-1 and OW-2.

TPHg – A plot depicting TPHg concentrations over time is included as Figure 6.

- All detectable TPHg concentrations decreased since than the previous sampling event.

- April 2009 was the first time TPHg has not been detected above the reporting limit in OW-1.

- As illustrated on Figure 6, concentrations of TPHg in all wells have decreased from historical high concentrations observed prior to October 2000.

BTEX – A plot depicting benzene concentrations over time is included as Figure 7.

- Benzene concentrations continue to decline in site wells, most notably in well MW-1. Well MW-7R was the only well with a detection, but the concentration is less than 1 µg/L.
- Toluene, ethylbenzene, and xylenes have not been detected since 2001.

MTBE – A plot depicting MTBE concentrations over time is included as Figure 8.

- MTBE concentrations in site wells are typically low, with values in the 5-10 µg/L range in most wells. The current data set is consistent with historical site data.
- Well OW-2 has historically reported the highest concentrations of MTBE dating to December 1999. Since this time, MTBE concentrations have declined from a historical high concentration of 17 µg/L to 4.9 µg/L.

EDC/EDB

- Lead scavengers EDC and EDB have not been detected in groundwater since first analyzed in April 2009.

DISCUSSION AND CONCLUSIONS

Wells MW-1R and MW-7R are appropriately screened to observe free-product on the groundwater table based on measured static groundwater and the well screen interval. The chemical data reported for MW-1R is similar to historical MW-1 data, while initial groundwater chemical data from well MW-7R is lower than historical MW-7 data. This relationship will be evaluated during future monitoring. A preliminary assessment of wells that are appropriately screened (MW-1R andMW-7R) versus the old wells that had submerged screens (MW-1 and MW-7) indicates that the concentrations are the same or lower than previously observed.

Project Status

In correspondence dated December 17, 2009, the ACEHS requested the submittal of a FS/CAP following installation of wells MW-1R and MW-7R. Based on the absence of free-phase product in well MW-1R, we recommend one additional sampling event to evaluate conditions in the new wells prior to preparing a FS/CAP.

In accordance with Stantec's October 27, 2009, *Monitoring Well Installation Work Plan*, Stantec will continue to monitor wells MW-1R and MW-7R for free-phase fuel product on a quarterly basis for remainder of the year along with wells MW-2, MW-4, MW-4, MW-5, MW-6, MW-8, OW-1, and OW-2. The third quarterly groundwater monitoring event will be conducted during the fourth quarter 2010.

If you have any questions regarding this document or the findings herein presented, please contact the undersigned at (925) 299-9300.

Sincerely,

STANTEC CONSULTING CORPORATION

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cc: Mr. Andrew Cullen, Penske Truck Leasing, Reading PA

LIST OF ATTACHMENTS

Table 1: Well Construction Details
Table 2: Groundwater Elevation Data
Table 3: Field Parameter Data
Table 4: Groundwater Analytical Results

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Elevation Surface Contour Map – May 2010
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Figure 5: Fuel Hydrocarbons Constituents in Groundwater
Figure 6: TPHd versus Time
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Appendix A: Groundwater Sample Collection Logs
Appendix B: Water Sample Laboratory Reports and Chain-of-Custody Forms

Stantec

TABLES

2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001
October 1, 2010

TABLE 1

WELL CONSTRUCTION DETAILS

Former Penske Facility - 725 Julie Ann Way , Oakland, CA

Well	Total Depth (feet bgs)	Screen Length (feet)	Screen Interval (feet bgs)	Top of Casing Elevation (feet msl)
MW-1	35	25	10.0 - 35.0	5.43
MW-1R	20	16.5	3.5 - 20.0	4.73
MW-2	30	20	10.0 - 30.0	6.20
MW-3	35	25	10.0 - 35.0	6.10
MW-4	33.5	27	6.5 - 33.5	5.18
MW-5	35	25	6.0 - 31.0	4.71
MW-6	25	10	15.0 - 25.0	5.37
MW-7	29	15	14.0 - 29.0	5.38
MW-7R	20	16.5	3.5 - 20.0	4.50
MW-8	28	18	10.0 - 28.0	5.44
OW-1	13.5	na	na	5.09
OW-2	14.0	na	na	5.39

na: not available

TABLE 2
GROUNDWATER ELEVATION DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	Elevation (Feet)[a,b]	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-1	02/20/97	5.43	5.41	0.02
	05/28/97		5.98	-0.55
	09/19/97		6.45	-1.02
	11/17/97		6.14	-0.71
	02/27/98		4.83	0.60
	05/27/98		6.42	-0.99
	10/01/98		6.49	-1.06
	12/22/98		6.35	-0.92
	12/28/99		7.34	-1.91
	03/14/00		4.95	0.48
	06/28/00		5.54	-0.11
	09/14/00		6.41	-0.98
	12/11/00		6.08	-0.65
	03/14/01		6.11	-0.68
	06/13/01		5.68	-0.25
	08/29/01		6.13	-0.70
	12/12/01		5.31	0.12
	04/11/02		5.21	0.22
	12/05/02		5.85	-0.42
	04/22/09		5.03	0.40
	Well MW-1 abandoned on January 11, 2010 and replaced with well MW-1R on January 12, 2010.			
MW-1R	02/08/10	4.73	4.41	0.32
	05/10/10		4.58	0.15
	07/16/10		4.98	-0.25
MW-2	02/20/97	6.20	6.26	-0.06
	05/28/97		6.65	-0.45
	09/19/97		6.90	-0.70
	11/17/97		6.75	-0.55
	02/27/98		5.31	0.89
	05/27/98		5.87	0.33
	10/01/98		6.95	-0.75
	12/22/98		6.70	-0.50
	12/28/99		7.08	-0.88
	03/15/00		5.45	0.75
	06/28/00		6.37	-0.17
	09/14/00		6.86	-0.66
	12/11/00		7.33	-1.13
	03/14/01		5.75	0.45
	06/13/01		6.33	-0.13
	08/29/01		6.71	-0.51
	12/12/01		5.92	0.28
	04/11/02		5.88	0.32
	12/05/02		6.56	-0.36
	12/05/02		6.56	-0.36
	04/22/09		5.52	0.68
	02/08/10		5.28	0.92
	05/10/10		5.46	0.74
	07/16/10		5.80	0.40

TABLE 2
GROUNDWATER ELEVATION DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	Elevation (Feet)[a,b]	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-3	02/20/97	6.10	6.36	-0.26
	05/28/97		6.62	-0.52
	09/19/97		6.83	-0.73
	11/17/97		6.77	-0.67
	02/27/98		5.38	0.72
	05/27/98		6.05	0.05
	10/01/98		6.95	-0.85
	12/22/98		6.73	-0.63
	12/28/99		7.22	-1.12
	03/14/00		NM	NM
	06/28/00		6.37	-0.27
	09/14/00		7.06	-0.96
	12/11/00		6.68	-0.58
	03/14/01		5.85	0.25
	06/13/01		6.34	-0.24
	08/29/01		6.70	-0.60
	12/12/01		5.95	0.15
	04/11/02		5.86	0.24
	12/05/02		6.55	-0.45
	12/05/02		6.55	-0.45
	04/22/09		NM	NM
	02/08/10		5.31	0.79
	05/10/10		5.52	0.58
	07/16/10		5.90	0.20
MW-4	02/20/97	5.18	5.29	-0.11
	05/28/97		5.66	-0.48
	09/19/97		6.00	-0.82
	11/17/97		6.06	-0.88
	02/27/98		4.66	0.52
	05/27/98		5.98	-0.80
	10/01/98		5.23	-0.05
	12/22/98		6.57	-1.39
	12/28/99		6.54	-1.36
	03/14/00		4.86	0.32
	06/28/00		5.55	-0.37
	09/14/00		6.05	-0.87
	12/11/00		5.93	-0.75
	03/14/01		5.04	0.14
	06/13/01		5.25	-0.07
	08/29/01		5.89	-0.71
	12/12/01		5.14	0.04
	04/11/02		4.96	0.22
	12/05/02		5.68	-0.50
	04/22/09		4.67	0.51
	02/08/10		4.71	0.47
	05/10/10		4.55	0.63
	07/16/10		5.12	0.06

TABLE 2
GROUNDWATER ELEVATION DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	Elevation (Feet)[a,b]	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-5	02/20/97	4.71	4.68	0.03
	05/28/97		5.21	-0.50
	09/19/97		5.43	-0.72
	11/17/97		5.28	-0.57
	02/27/98		4.10	0.61
	05/27/98		5.40	-0.69
	10/01/98		5.42	-0.71
	12/22/98		5.40	-0.69
	12/28/99		5.73	-1.02
	03/14/00		NM	NM
	06/28/00		5.11	-0.40
	09/14/00		NM	NM
	12/11/00		5.48	-0.77
	03/14/01		4.57	0.14
	06/13/01		5.05	-0.34
	08/29/01		5.34	-0.63
	12/12/01		4.79	-0.08
	04/11/02		4.66	0.05
	12/05/02		5.32	-0.61
	04/22/09		NM	NM
	02/08/10		4.13	0.58
	05/10/10		4.20	0.51
	07/16/10		4.44	0.27
MW-6	02/20/97	5.37	5.38	-0.01
	05/28/97		5.93	-0.56
	09/19/97		6.15	-0.78
	11/17/97		6.06	-0.69
	02/27/98		4.74	0.63
	05/27/98		5.40	-0.03
	10/01/98		6.37	-1.00
	12/22/98		6.06	-0.69
	12/28/99		6.40	-1.03
	03/14/00		NM	NM
	06/28/00		6.71	-1.34
	09/14/00		6.17	-0.80
	12/11/00		NM	NM
	03/14/01		5.11	0.26
	06/13/01		6.65	-1.28
	08/29/01		6.00	-0.63
	12/12/01		5.33	0.04
	04/11/02		5.15	0.22
	12/05/02		5.90	-0.53
	04/22/09		NM	NM
	02/08/10		4.56	0.81
	05/10/10		4.79	0.58
	07/16/10		5.03	0.34

TABLE 2
GROUNDWATER ELEVATION DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	Elevation (Feet)[a,b]	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-7	02/20/97	5.38	5.70	-0.32
	05/28/97		5.46	-0.08
	09/19/97		5.91	-0.53
	11/17/97		5.59	-0.21
	02/27/98		4.68	0.70
	05/27/98		5.17	0.21
	10/01/98		5.80	-0.42
	12/22/98		5.78	-0.40
	12/28/99		7.72	-2.34
	03/14/00		4.50	0.88
	06/28/00		5.51	-0.13
	09/14/00		5.93	-0.55
	12/11/00		5.72	-0.34
	03/14/01		4.58	0.80
	06/13/01		5.18	0.20
	08/29/01		5.53	-0.15
	12/12/01		4.73	0.65
	04/11/02		4.68	0.70
	12/05/02		5.25	0.13
	04/22/09		4.58	0.80
	Well MW-7 abandoned on January 11, 2010 and replaced with well MW-7R on January 12, 2010.			
MW-7R	02/08/10	4.50	4.28	0.22
	05/10/10		4.55	-0.05
	07/16/10		4.82	-0.32
MW-8	02/20/97	5.44	5.10	0.34
	05/28/97		5.68	-0.24
	09/19/97		5.95	-0.51
	11/17/97		5.91	-0.47
	02/27/98		4.50	0.94
	05/27/98		6.10	-0.66
	10/01/98		6.13	-0.69
	12/22/98		6.10	-0.66
	12/28/99		6.30	-0.86
	03/14/00		5.01	0.43
	06/28/00		5.47	-0.03
	09/14/00		5.99	-0.55
	12/11/00		5.84	-0.40
	03/14/01		4.90	0.54
	06/13/01		5.40	0.04
	08/29/01		5.80	-0.36
	12/12/01		5.05	0.39
	04/11/02		4.95	0.49
	12/05/02		5.42	0.02
	04/22/09		4.94	0.50
	02/08/10		4.31	1.13
	05/10/10		4.54	0.90
	07/16/10		4.80	0.64

TABLE 2
GROUNDWATER ELEVATION DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	Elevation (Feet)[a,b]	Depth to Water (Feet)	Groundwater Elevation (Feet)
OW-1	12/28/99	5.09	5.77	-0.68
	03/15/00		4.47	0.62
	06/29/00		4.95	0.14
	08/29/01		5.01	0.08
	09/14/00		5.31	-0.22
	12/11/00		5.17	-0.08
	03/14/01		4.54	0.55
	06/13/01		4.75	0.34
	12/12/01		4.80	0.29
	04/11/02		4.52	0.57
	12/05/02		5.13	-0.04
	04/22/09		4.19	0.90
	02/08/10		4.20	0.89
	05/10/10		4.13	0.96
	07/16/10		4.31	0.78
OW-2	12/28/99	5.39	6.08	-0.69
	03/15/00		4.76	0.63
	06/29/00		5.15	0.24
	09/14/00		5.60	-0.21
	12/11/00		5.45	-0.06
	03/14/01		4.77	0.62
	06/13/01		5.01	0.38
	08/29/01		5.31	0.08
	12/12/01		5.10	0.29
	04/11/02		4.83	0.56
	12/05/02		5.42	-0.03
	04/22/09		4.52	0.87
	02/08/10		4.41	0.98
	05/10/10		4.49	0.90
	07/16/10		4.47	0.92

Notes:

(a) - All well elevations resurveyed to site benchmark on February 10, 1993.

(b) - Wells MW-1R and MW-7R resurveyed on February 19, 2010

NM - Not Measured

TABLE 3
FIELD PARAMETER DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	pH (units)	D.O. (mg/L)	ORP (millivolts)
MW-1	12/28/99	7.92	0.87	-211
	03/14/00	7.29	1.12	-23
	06/28/00	8.26	0.55	-248
	09/14/00	6.92	0.36	-316
	12/11/00	7.05	1.34	-55
	03/14/01	7.07	1.24	-66
	06/13/01	7.05	1.20	-109
	08/29/01	7.78	NM	-63
	12/12/01	6.93	1.28	-4
	04/12/02	6.72	0.37	-56
	12/05/02	7.01	NM	-79
	04/22/09	6.94	0.08	-57/102
	Well MW-1 abandoned on January 11, 2010 and replaced with well MW-1R on January 12, 2010.			
MW-1R	02/08/10	7.27	1.07	NM
	07/16/10	7.14	0.15	-139/-152
MW-2	12/28/99	7.94	0.96	-38
	03/15/00	7.28	1.43	-255
	06/28/00	7.52	0.89	-221
	09/14/00	7.44	0.61	-310
	12/11/00	7.28	1.96	24
	03/14/01	7.34	1.46	11
	06/13/01	7.07	0.95	-12
	08/29/01	7.24	NM	70
	12/12/01	7.13	0.88	13
	04/11/02	7.25	0.66	126
	12/05/02	7.01	0.14	-32
	04/22/09	6.91	0.17	143/-12
	02/08/10	6.91	3.56	NM
	07/16/10	7.19	0.40	104/72
MW-3	12/28/99	NM	NM	NM
	03/14/00	NM	NM	NM
	06/28/00	NM	NM	NM
	09/14/00	NM	NM	NM
	12/11/00	NM	NM	NM
	03/14/01	NM	NM	NM
	06/13/01	NM	NM	NM
	08/29/01	NM	NM	NM
	12/13/01	NM	NM	NM
	04/11/02	NM	NM	NM
	12/05/02	NM	NM	NM
	04/22/09	NM	NM	NM
	02/08/10	NM	NM	NM

TABLE 3
FIELD PARAMETER DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	pH (units)	D.O. (mg/L)	ORP (millivolts)
MW-4	12/28/99	7.38	0.80	-201
	03/14/00	6.97	2.11	35
	06/28/00	6.87	3.57	-34
	09/14/00	7.23	1.06	16
	12/11/00	6.99	2.27	74
	03/14/01	6.81	1.28	-91
	06/13/01	6.97	0.97	-30
	08/29/01	7.45	NM	104
	12/13/01	6.88	0.34	199
	04/12/02	6.77	0.95	12
	12/05/02	6.81	0.56	-13
	04/22/09	6.71	0.16	-67/-68
	02/08/10	6.92	2.38	NM
MW-5	12/28/99	7.55	1.14	-118
	03/14/00	NM	NM	NM
	06/28/00	7.57	1.79	-103
	09/14/00	NM	NM	NM
	12/11/00	7.28	4.14	-11
	03/14/01	NM	NM	NM
	06/13/01	7.04	3.61	-44
	08/29/01	NM	NM	NM
	12/13/01	7.05	3.26	52
	04/11/02	7.04	2.28	-524
	12/05/02	NM	NM	NM
	04/22/09	NM	NM	NM
MW-6	12/28/99	NM	NM	NM
	03/14/00	NM	NM	NM
	06/28/00	NM	NM	NM
	09/14/00	NM	NM	NM
	12/11/00	NM	NM	NM
	03/14/01	NM	NM	NM
	06/13/01	NM	NM	NM
	08/29/01	NM	NM	NM
	12/13/01	NM	NM	NM
	04/11/02	NM	NM	NM
	12/05/02	NM	NM	NM
	04/22/09	NM	NM	NM
	02/08/10	NM	NM	NM
	07/16/10	6.99	0.47	-107/-124

TABLE 3
FIELD PARAMETER DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	pH (units)	D.O. (mg/L)	ORP (millivolts)
MW-7	12/28/99	7.94	1.30	-58
	03/14/00	7.23	1.05	-260
	06/28/00	7.18	5.76	-164
	09/14/00	7.06	0.65	-306
	12/12/00	7.02	1.25	-70
	03/14/01	7.10	0.94	-6
	06/13/01	7.03	1.77	-94
	08/29/01	7.34	NM	58
	12/12/01	7.09	0.98	47
	04/12/02	6.60	0.71	0
	12/05/02	6.96	0.14	10
	04/22/09	7.09	0.17	-37/-98
	Well MW-7 abandoned on January 11, 2010 and replaced with well MW-7R on January 12, 2010.			
MW-7R	02/08/10	7.43	2.32	NM
		7.28	0.12	-148/-105
MW-8	12/28/99	7.79	0.42	-136
	03/14/00	7.05	1.53	-27
	06/28/00	8.86	1.87	-77
	09/14/00	7.32	1.07	-166
	12/12/00	7.05	1.16	-61
	03/14/01	7.21	2.55	16
	06/13/01	7.10	2.43	-21
	08/29/01	7.52	NM	9
	12/13/01	7.15	1.55	12
	04/12/02	6.58	1.83	-10
	12/05/02	6.91	0.07	-88
	04/22/09	7.13	2.72	98/30
	02/08/10	7.09	3.58	NM
	07/16/10	7.26	0.29	68/0
OW-1	12/28/99	7.67	0.99	-89
	03/15/00	7.31	1.16	-55
	06/29/00	6.34	3.29	-48
	09/14/00	7.02	0.98	-115
	12/12/00	6.94	1.98	-5
	03/14/01	7.04	2.89	-5
	06/13/01	6.76	1.11	-58
	08/29/01	7.04	NM	-39
	12/12/01	6.83	1.17	-46
	04/11/02	7.19	0.75	-31
	12/05/02	6.88	0.03	-79
	04/22/09	6.80	0.29	-77/-88
	02/08/10	6.98	2.91	NM
	07/16/10	7.03	0.41	-81/-118

TABLE 3
FIELD PARAMETER DATA
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	pH (units)	D.O. (mg/L)	ORP (millivolts)
OW-2	12/28/99	7.69	1.79	-58
	03/15/00	7.25	0.99	-35
	06/29/00	6.44	2.39	-66
	09/14/00	7.21	1.33	-89
	12/12/00	6.90	1.44	-76
	03/14/01	7.16	2.68	-54
	06/13/01	6.97	1.15	-92
	08/29/01	7.16	NM	-93
	12/12/01	6.81	1.36	-61
	04/11/02	7.08	0.89	-44
	12/05/02	6.85	0.01	-95
	04/22/09	6.89	0.35	-103/-90
	02/08/10	7.10	2.12	NM
	07/16/10	7.11	0.38	-107/-13

Notes:
D.O. - Dissolved Oxygen
mg/L - milligrams per liter
ORP - Oxidation Reduction Potential
NM - Not Measured

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethylene Dichloride	Ethylene Dibromide
		(µ/L)								
MW-1	02/20/97	200,000	2,900	260	61	42	96	NS	NA	NA
	05/28/97	28,000	2,100	230	42	55	110	NS	NA	NA
	09/19/97	2,700,000	110,000	230	140	250	700	ND	NA	NA
	11/17/97	950,000	40,000	240	190[c]	270[c]	880[c]	ND[c]	NA	NA
	02/27/98	1,200,000	380,000	50	50	200	800	ND	NA	NA
	05/27/98	280,000	13,000	110	13	66	390	ND	NA	NA
	10/01/98	63,000	1,300	43	1.2	15	84	ND	NA	NA
	12/22/98	79,000	2,000	32	ND[e]	23[e]	130[e]	ND	NA	NA
	12/28/99	43,000	1,700	49	1.3	11	24	ND	NA	NA
	03/14/00	4,300	540	59	1.3	12	23	NA	NA	NA
	06/28/00	290,000	1,300	26	ND	ND	23	ND	NA	NA
	09/14/00	770,000	1,100	34	ND	3.9	17	ND	NA	NA
	12/11/00	28,000	2,000	10	ND	ND	9.3	ND	NA	NA
	03/14/01	8,400	350	12	ND	ND	ND	ND	NA	NA
	06/13/01	13,000	340	6.4	ND	ND	1.6	ND	NA	NA
	08/29/01	26,000	140	0.5	ND	ND	ND	ND	NA	NA
	12/12/01	5,600	160	0.65	ND	ND	ND	ND	NA	NA
	04/12/02	23,000	260	3.4	ND	ND	ND	NA	NA	NA
	12/05/02	17,000	340	2.2	ND	ND	ND	6.0	NA	NA
	04/22/09	3,200	240	<0.50	<0.50	<0.50	<1.0	2.6	<0.50	<0.50
	DUP	12,000	310	<0.50	<0.50	<0.50	<1.0	2.8	<0.50	<0.50
	Well MW-1 abandoned on January 11, 2010 and replaced with well MW-1R on January 12, 2010.									
MW-1R	02/08/10	5,600	120[k]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dup	02/08/10	5,800	110[k]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/16/10	770	110[k]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dup	07/16/10	960	120[k]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	02/20/97	1,000[h]	ND	ND	ND	ND	ND	NS	NA	NA
	05/28/97	3,700[b,h]	ND	ND	ND	ND	ND	NS	NA	NA
	09/19/97	4100	ND	ND	ND	ND	ND	ND	NA	NA
	11/17/97	1300	ND	ND	ND	ND	ND	ND	NA	NA
	02/27/98	340	ND	ND	0.9	ND	ND	ND	NA	NA
	05/27/98	1300	ND	ND	ND	ND	ND	ND	NA	NA
	10/01/98	3,500[i]	3,200	ND	ND	ND	ND	ND	NA	NA
	12/22/98	1,200[j,k]	67[d]	ND	ND	ND	ND	ND	NA	NA
	12/28/99	750	ND	ND	ND	ND	ND	ND	NA	NA
	03/15/00	92	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/00	ND	ND	ND	ND	ND	ND	ND	NA	NA
	09/14/00	120	ND	ND	ND	ND	ND	ND	NA	NA
	12/11/00	ND	ND	ND	ND	ND	ND	ND	NA	NA
	03/14/01	75	ND	ND	ND	ND	ND	ND	NA	NA
	06/13/01	ND	ND	ND	ND	ND	ND	ND	NA	NA
	08/29/01	ND	ND	ND	ND	ND	ND	ND	NA	NA
	12/12/01	150*	ND	ND	ND	ND	ND	ND	NA	NA
	04/12/02	ND	ND	ND	ND	ND	ND	NA	NA	NA
	12/05/02	57*	ND	ND	ND	ND	ND	ND	NA	NA
	04/22/09	140	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	02/08/10	870[k]	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	07/16/10	<50	<50	<0.50	<0.50	<0.50	<1.0	1.5	<0.50	<0.50

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethylene Dichloride	Ethylene Dibromide
		(µ/L)								
MW-3	02/20/97	140[h]	ND	ND	ND	ND	ND	NS	NA	NA
	05/28/97	240[b,h]	ND	ND	ND	ND	ND	NS	NA	NA
	09/19/97	ND	ND	0.7	ND	ND	ND	ND	NA	NA
	11/17/97	ND	ND	ND	ND	ND	ND	ND	NA	NA
	02/27/98	ND	ND	ND	ND	ND	ND	ND	NA	NA
	05/27/98	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/01/98	56[l]	ND	ND	ND	ND	ND	ND	NA	NA
	Well MW-3 no longer included in sampling program									
MW-4	02/20/97	470,000	64,000	ND	ND	ND	ND	NS	NA	NA
	05/28/97	1,000,000	11,000	ND	ND	ND	ND	NS	NA	NA
	09/19/97	2,600,000	37,000	260	ND	ND	ND	ND	NA	NA
	11/17/97	57,000	4,400	25	ND[c]	ND[c]	ND[c]	ND[c]	NA	NA
	02/27/98	9,300	580	2.7	0.8	0.8	3	ND	NA	NA
	05/27/98	11,000	3,900	1.4	0.6	ND	ND	ND	NA	NA
	10/01/98	670,000	2,400	5.7	ND	ND	4.6	ND	NA	NA
	12/22/98	3,700	200	ND[p]	ND[p]	ND[p]	ND[p]	ND[p]	NA	NA
	12/28/99	5,800	1,000	ND	ND	ND	ND	ND	NA	NA
	03/14/00	4,800	350	ND	ND	ND	ND	NA	NA	NA
	06/28/00	8,400	120	ND	ND	ND	ND	ND	NA	NA
	09/14/00	19,000	130	ND	ND	ND	ND	ND	NA	NA
	12/11/00	730	120	ND	ND	ND	ND	ND	NA	NA
	03/14/01	580	50	ND	ND	ND	ND	ND	NA	NA
	06/13/01	260	54	ND	ND	ND	ND	ND	NA	NA
	08/29/01	30,000	940	ND	ND	ND	ND	ND	NA	NA
	12/13/01	260	50	ND	ND	ND	ND	ND	NA	NA
	04/12/02	230	50	ND	ND	ND	ND	NA	NA	NA
	12/05/02	1,500	50	ND	ND	ND	ND	ND	NA	NA
	04/22/09	13,000	480	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	<0.50
	02/08/10	12,000	120 [k]	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<0.50
	07/16/10	2,700	210 [k]	<0.50	<0.50	<0.50	<0.50	4.2	<0.50	<0.50
MW-5	02/20/97	1,100[h]	ND	ND	ND	ND	ND	NS	NA	NA
	05/28/97	560[b,q]	60[m]	ND	ND	ND	ND	NS	NA	NA
	09/19/97	1,000	70	ND	ND	ND	ND	ND	NA	NA
	11/17/97	1,100	70	0.6	0.7	0.5	ND	5	NA	NA
	02/27/98	ND	ND	ND	ND	ND	ND	5	NA	NA
	05/27/98	770	ND	ND	ND	ND	ND	ND	NA	NA
	10/01/98	630	ND	ND	ND	ND	ND	ND	NA	NA
	12/22/98	890[r]	ND	ND	ND	ND	ND	ND	NA	NA
	12/28/99	440	ND	ND	ND	ND	ND	ND	NA	NA
	03/15/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/28/00	110*	ND	ND	ND	ND	ND	ND	NA	NA
	09/14/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/11/00	130	ND	ND	ND	ND	ND	ND	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/13/01	120	ND	ND	ND	ND	ND	ND	NA	NA
	08/29/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/13/01	530*	ND	ND	ND	ND	ND	ND	NA	NA
	04/11/02	230*	ND	ND	ND	ND	ND	NA	NA	NA
	Well MW-5 no longer included in sampling program									

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethylene Dichloride	Ethylene Dibromide
		(µ/L)								
MW-7	02/20/97	1,500,000	15,000	81	51	ND	ND	NS	NA	NA
	05/28/97	440,000	390,000	ND	ND	ND	ND	NS	NA	NA
	09/19/97	910,000	3,600	110	64	37	ND	ND	NA	NA
	11/17/97	18,000,000	15,000	110	41[(c)]	12[(c)]	110[(c)]	ND[(c)]	NA	NA
	02/27/98	290,000	45,000	80	60	ND	ND	ND	NA	NA
	05/27/98	1,600	140	2.3	0.9	0.9	3	ND	NA	NA
	10/01/98	89,000	710	39	2.4	11	31	ND	NA	NA
	12/22/98	240,000	3,900	51	ND	ND	ND	ND	NA	NA
	12/28/99	300,000	2,300	51	5.3	13	27	ND	NA	NA
	03/14/00	640,000	620	31	5.3	9.9	31	NA	NA	NA
	06/28/00	2,900,000	3,200#	15	ND	3.2	30	ND	NA	NA
	09/14/00	15,000,000	1,900	11	ND	10	39	ND	NA	NA
	12/12/00	340,000	4,500	5	ND	ND	17	ND	NA	NA
	03/14/01	170,000	8,000	5	ND	ND	ND	ND	NA	NA
	06/13/01	19,000	100	0.99	ND	ND	ND	6.2	NA	NA
	08/29/01	27,000	120	3.9	ND	ND	ND	5	NA	NA
	12/12/01	6,900	610	0.5	ND	ND	ND	ND	NA	NA
	04/12/02	2,600	110	0.5	ND	ND	ND	NA	NA	NA
	12/05/02	9,100	290	0.5	ND	ND	ND	5.7	NA	NA
	04/22/09	1,900	56	<0.50	<0.50	<0.50	<1.0	3.4	<0.50	<0.50
	Well MW-7 abandoned on January 11, 2010 and replaced with well MW-7R on January 12, 2010.									
MW-7R	02/08/10	560	52 [(k)]	0.63	<0.50	<0.50	<0.50	2.4	<0.50	<0.50
	07/16/10	12,000	4,000 [(k)]	2.6	<50	0.8	6.9	2.5	<50	<50
MW-8	02/20/97	2,500	340[(a)]	2.1	53	7.1	94	NS	NA	NA
	05/28/97	200[(b,s)]	480[(a)]	2.5	12	ND	76	NS	NA	NA
	09/19/97	7,000	1,000	0.8	5	0.5	130	ND	NA	NA
	11/17/97	520	250	1.4	2.1	0.7	3	ND	NA	NA
	02/27/98	150	ND	ND	ND	ND	ND	ND	NA	NA
	05/27/98	70	ND	ND	ND	ND	ND	ND	NA	NA
	10/01/98	440[(t)]	ND	ND	ND	ND	ND	ND	NA	NA
	12/22/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/28/99	130	ND	ND	ND	ND	ND	ND	NA	NA
	03/14/00	170	ND	ND	ND	ND	ND	NA	NA	NA
	06/28/00	300*	ND	ND	ND	ND	ND	ND	NA	NA
	09/14/00	310	ND	ND	ND	ND	ND	ND	NA	NA
	12/11/00	15,000	ND	ND	ND	ND	ND	ND	NA	NA
	03/14/01	130	ND	ND	ND	ND	ND	ND	NA	NA
	06/13/01	100	ND	ND	ND	ND	ND	ND	NA	NA
	08/29/01	160*	ND	ND	ND	ND	ND	ND	NA	NA
	12/13/01	97*	ND	ND	ND	ND	ND	ND	NA	NA
	04/12/02	ND	ND	ND	ND	ND	ND	NA	NA	NA
	12/05/02	97	ND	ND	ND	ND	ND	ND	NA	NA
	04/22/09	<50	<50	<0.50	<0.50	<0.50	<1.0	2.9	<0.50	<0.50
	02/08/10	360 [(k)]	<50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50
	07/16/10	<50	<50	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<0.50

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Well No.	Date	TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethylene Dichloride	Ethylene Dibromide
		(µ/L)								
OW-1	12/28/99	7,700	3,400	11	ND	ND	2.6	ND	NA	NA
	03/15/00	5,300	700	1.7	ND	ND	ND	ND	NA	NA
	06/29/00	1,300*	140#	4	ND	ND	2.2	6.6	NA	NA
	09/14/00	5,800	180	ND	ND	ND	ND	ND	NA	NA
	12/12/00	230	110	3.4	ND	ND	ND	ND	NA	NA
	03/14/01	2,200	110	4	ND	ND	0.5	ND	NA	NA
	06/13/01	1,500	120	2.5	ND	ND	ND	ND	NA	NA
	08/29/01	1,200*	130#	ND	ND	ND	ND	ND	NA	NA
	12/12/01	3,100*	76#	ND	ND	ND	ND	ND	NA	NA
	04/11/02	3,600*	300#	ND	ND	ND	ND	NA	NA	NA
	12/05/02	490#	78#	ND	ND	ND	ND	ND	NA	NA
	04/22/09	1,600	130	<0.50	<0.50	<0.50	<1.0	8.9	<0.50	<0.50
	02/08/10	11,000	<50	<0.50	<0.50	<0.50	<0.50	5.1	<0.50	<0.50
	07/16/10	85	57 (k)	<0.50	<0.50	<0.50	<0.50	4.3	<0.50	<0.50
OW-2	12/28/99	3,300	770	36	ND	ND	1.7	16	NA	NA
	03/15/00	1,100	350	24	ND	ND	ND	9.3	NA	NA
	06/29/00	850	160	7.4	ND	ND	ND	13	NA	NA
	09/14/00	6,300	590	26	0.79	ND	1.7	17	NA	NA
	12/12/00	320	210	6.6	ND	ND	ND	7.4	NA	NA
	03/14/01	960	320	5.6	ND	ND	ND	ND	NA	NA
	06/13/01	900	250	2.9	ND	ND	ND	10	NA	NA
	08/29/01	1,400	270	5.3	ND	ND	ND	ND	NA	NA
	12/12/01	4,100	280	14	ND	ND	ND	11	NA	NA
	04/11/02	4,100	820	6.4	ND	ND	ND	NA	NA	NA
	12/05/02	500	230	0.5	ND	ND	ND	5.6	NA	NA
	04/22/09	2,100	210	<0.50	<0.50	<0.50	<1.0	6.8	<0.50	<0.50
	02/08/10	10,000	140 (k)	<0.50	<0.50	<0.50	<0.50	4.9	<0.50	<0.50
	07/16/10	2,000	210 (k)	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	<0.50
TB	02/08/10	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/16/10	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
EB	02/08/10	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	07/16/10	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

mg/L - micrograms per liter
TPHd - Total Petroleum Hydrocarbons as diese
TPHg - Total Petroleum Hydrocarbons as gaso
MTBE - Methyl tert butyl ether
NS - Well not sampled
ND - Not detected at or above the laboratory detection limit
NA - Not analyzed
EB -equipment blank

(a) - Laboratory reports that chromatogram indicates gasoline and unidentified hydrocarbons >C8.
(b) - Laboratory reports that the laboratory control sample failed for this batch, as well as when it was initially analyzed on 6/3/97. All results should be considered as estimated values. No additional sample was available for re-extraction.
(c) - Laboratory reports reporting limits for diesel and gas/BTEX elevated due to high levels of target compound. Samples run at dilution.
(d) - Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C09 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.
(e) - Laboratory reports reporting limit(s) raised due to high level of analyte present in sample.
(f) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C36. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(g) - Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C20.
(h) - Analyzed by USEPA Method 8015, modified.
(i) - Analyzed by USEPA Method 8020.
(j) - Diesel range concentration reported. A nonstandard diesel pattern was observed in the chromatogram.
* - Hydrocarbon reported does not match the diesel standard.
\# - Hydrocarbon reported (in the gasoline range) does not match lab standard.
(k) - Sample exhibits chromatographic pattern that does not resemble standard.
Ethylene dichloride reported as 1,2-Dichloroethane
Ethylene dibromide reported as 1,2-Dibromoethane

FIGURES

2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001
October 1, 2010

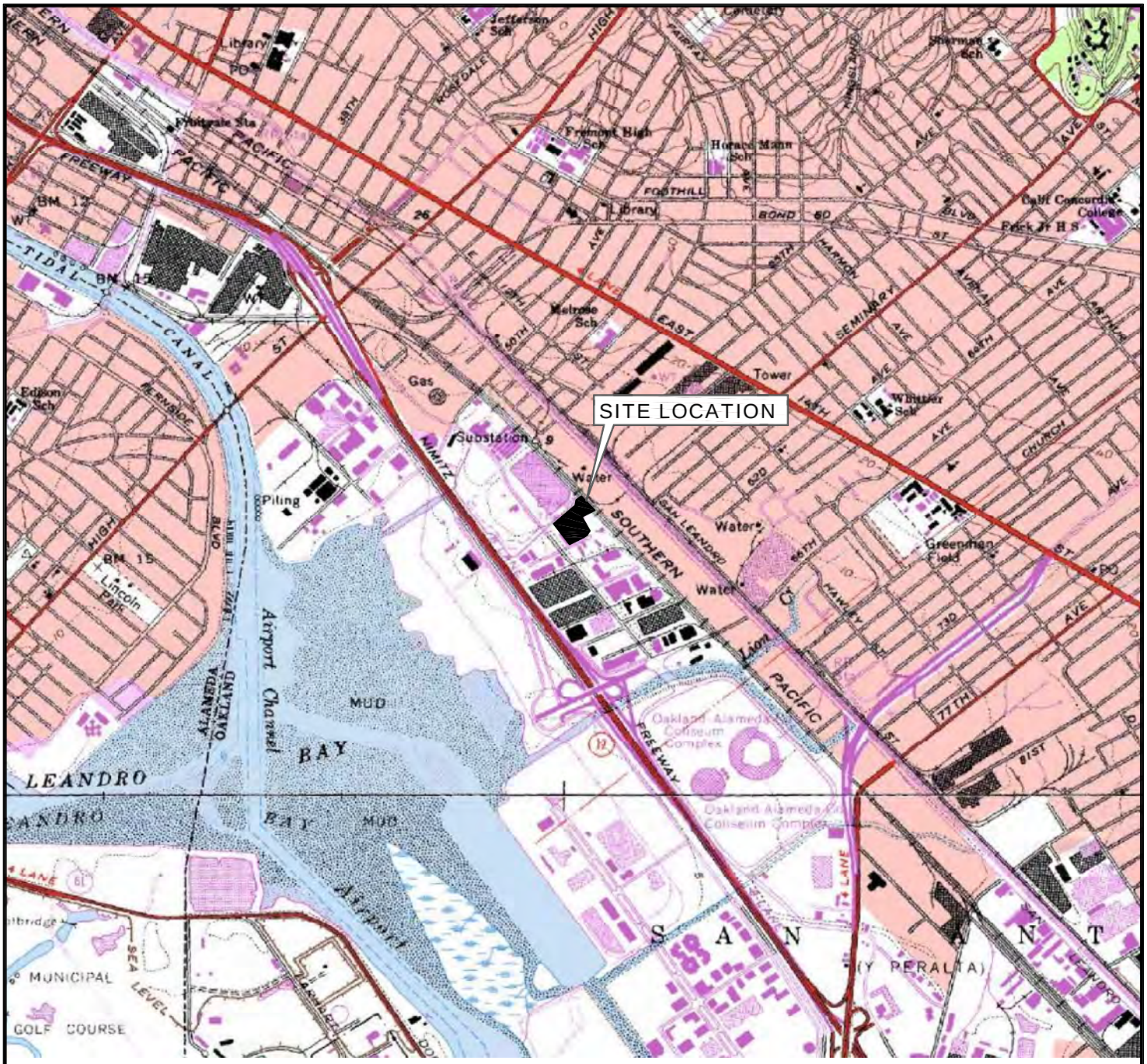
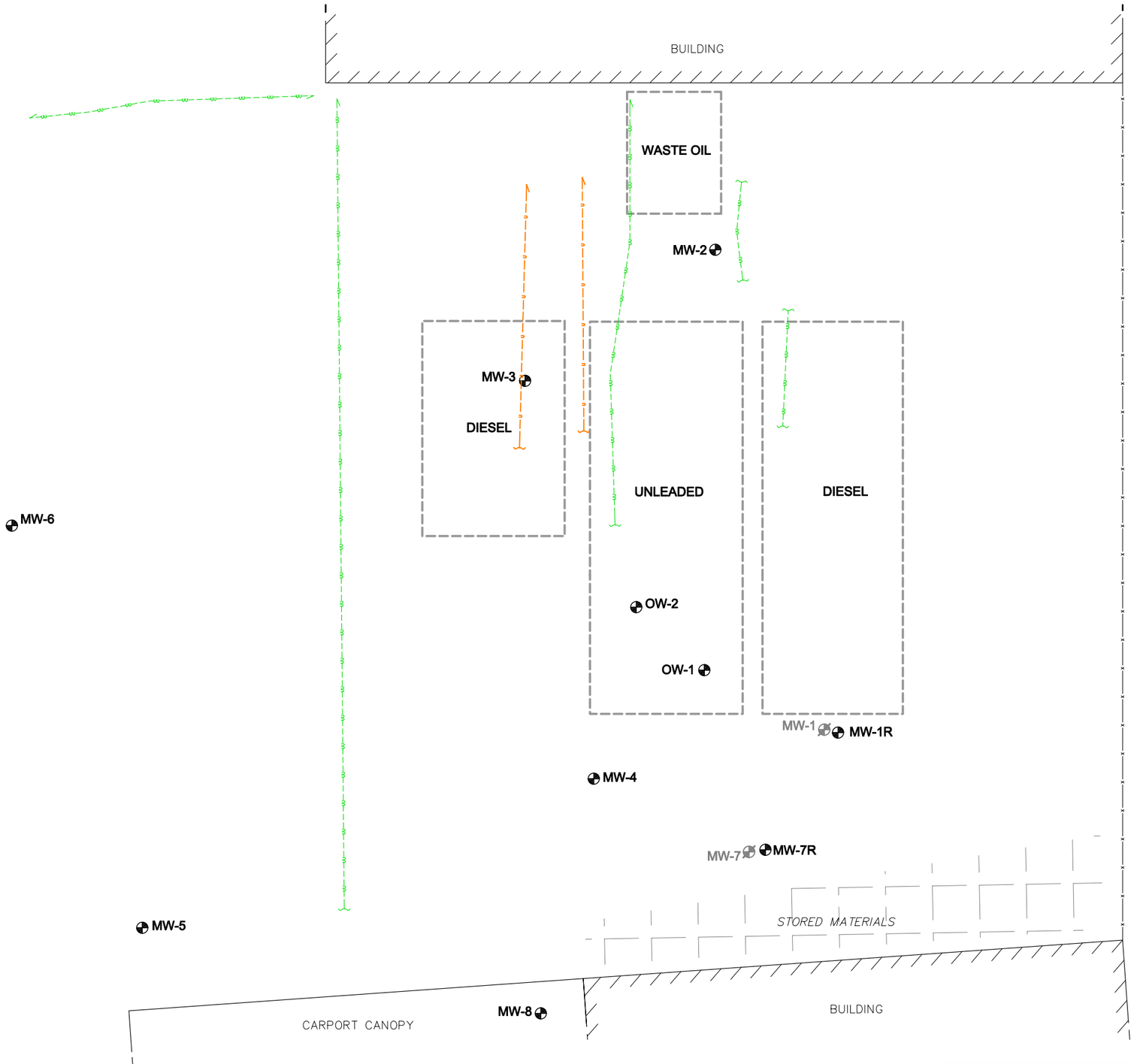


Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server

Stantec
57 Lafayette Circle, 2nd Floor
Lafayette California
PHONE: (925) 299-9300 FAX: (925) 299-9302

FOR:		SITE LOCATION MAP		FIGURE:
PENSKE 725 JULIE ANN WAY OAKLAND, CALIFORNIA				1
JOB NUMBER: 185702145.200.0001	DRAWN BY: RRR	CHECKED BY: EH	APPROVED BY: EH/GH/AM	DATE: 10/16/09

FILEPATH:M:\Penske\OAKLAND\185702145.200.0001\185702145-PenskeTrucking_Oakland-F1-SLM.dwg|rroggasch|Oct 16, 2009 at 16:13|Layout: SITE LOCATION MAP



LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- EXISTING MONITORING WELL LOCATION

0 20 40

APPROXIMATE SCALE IN FEET

NOTE:

UTILITIES BASED ON FIGURE PROVIDED BY NORCAL GEOPHYSICAL INC. (2008)

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Lafayette, California, 94549
PHONE: (925) 299-9300 FAX:(925) 299-9302

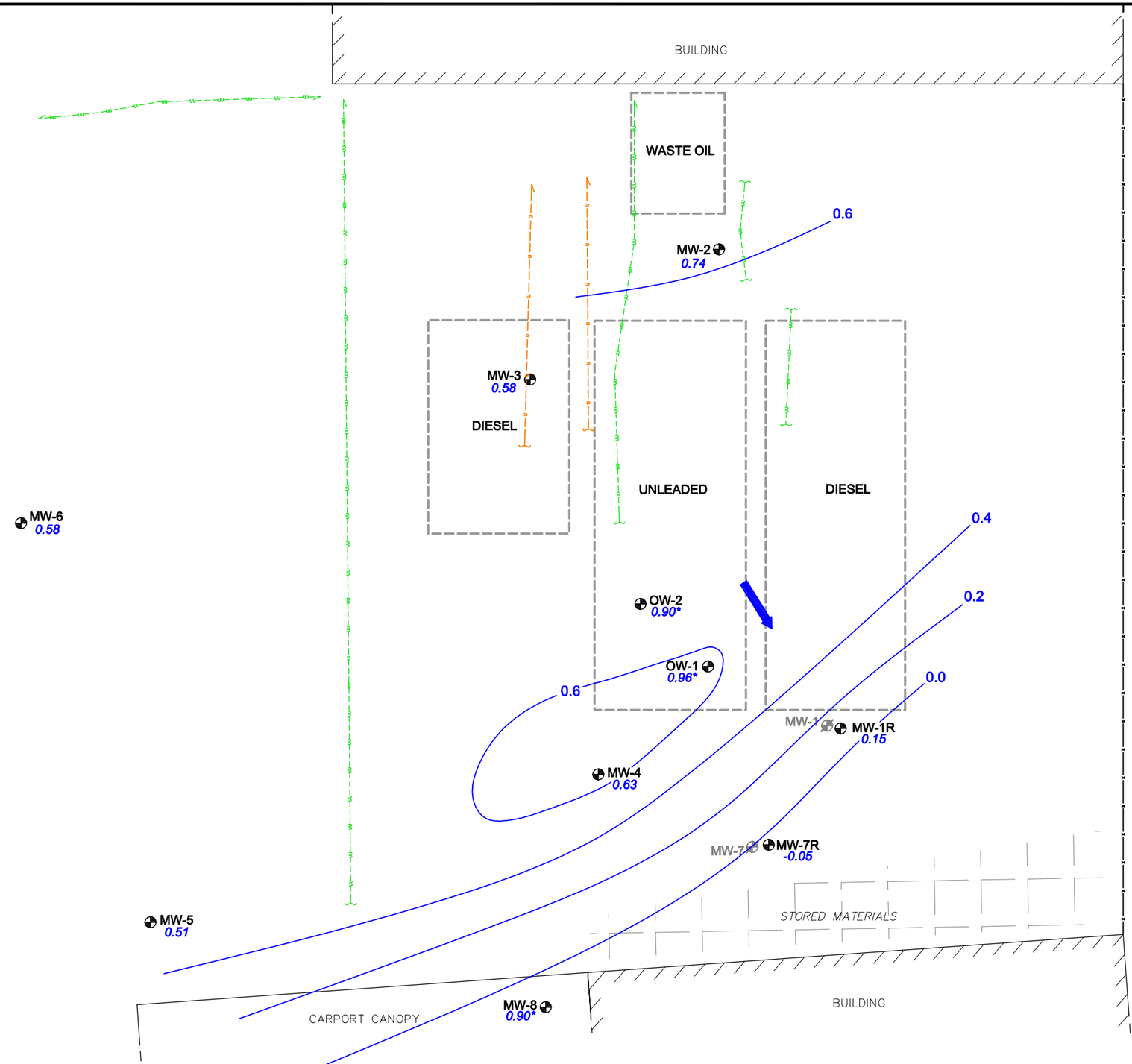
PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0001	RRR/JBL	EH	EH	08/24/10

FILEPATH:C:\-Temp_DWG_Files\AcPublish_1580\Penske-2010-Semi-F2_F4.dwg|rroggasch|Aug 24, 2010 at 6:29|Layout: F2



LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- EXISTING MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- GROUNDWATER FLOW DIRECTION (APPROXIMATE)
- 0.74 GROUNDWATER ELEVATION (RELATIVE TO LOCAL DATUM)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) WELLS SOUNDED ON MAY 10, 2010
- DATA NOT USED IN CONTOURING

0 20 40

APPROXIMATE SCALE IN FEET

NOTE:

UTILITIES BASED ON FIGURE PROVIDED BY NORCAL GEOPHYSICAL INC. (2008)

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Lafayette, California, 94549
PHONE: (925) 299-9300 FAX: (925) 299-9302

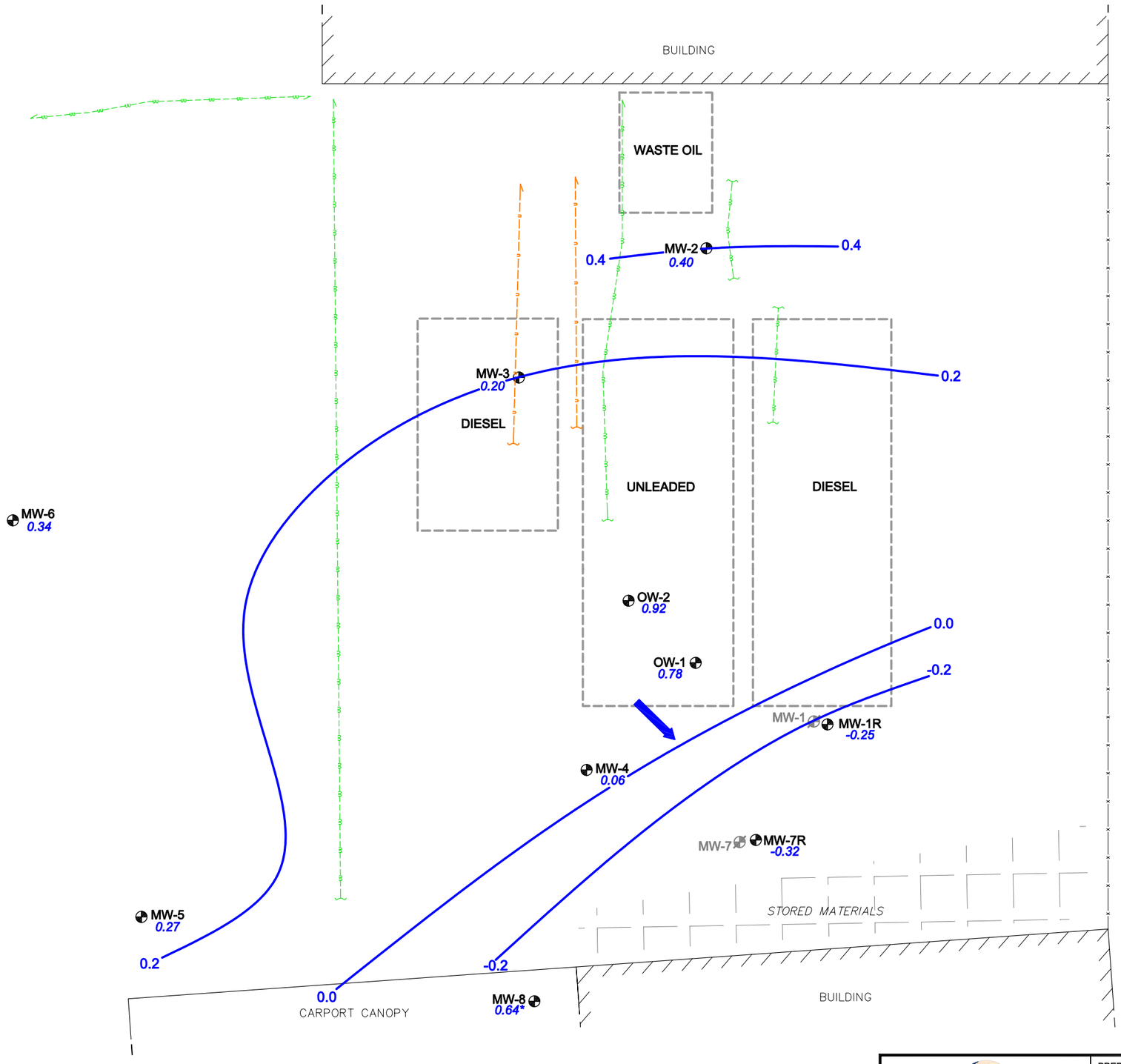
PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION
SURFACE CONTOUR MAP
MAY 2010

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0001	RRR/JBL	EH	EH	08/24/10

FILEPATH:M:\Penske\OAKLAND\185702145.200.0001\Semi-Annual\2010\DWG-May_July_2010\Penske-2010-Semi-F2_F4.dwg|rroggasch|Sep 15, 2010 at 12:56|Layout: F3-May-GW



LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- EXISTING MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- GROUNDWATER FLOW DIRECTION (APPROXIMATE)
- 0.40 GROUNDWATER ELEVATION (RELATIVE TO LOCAL DATUM)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) WELLS SOUNDED ON JULY 16, 2010
- DATA NOT USED IN CONTOURING

0 20 40

APPROXIMATE SCALE IN FEET

NOTE:

UTILITIES BASED ON FIGURE PROVIDED BY NORCAL GEOPHYSICAL INC. (2008)

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Lafayette, California, 94549
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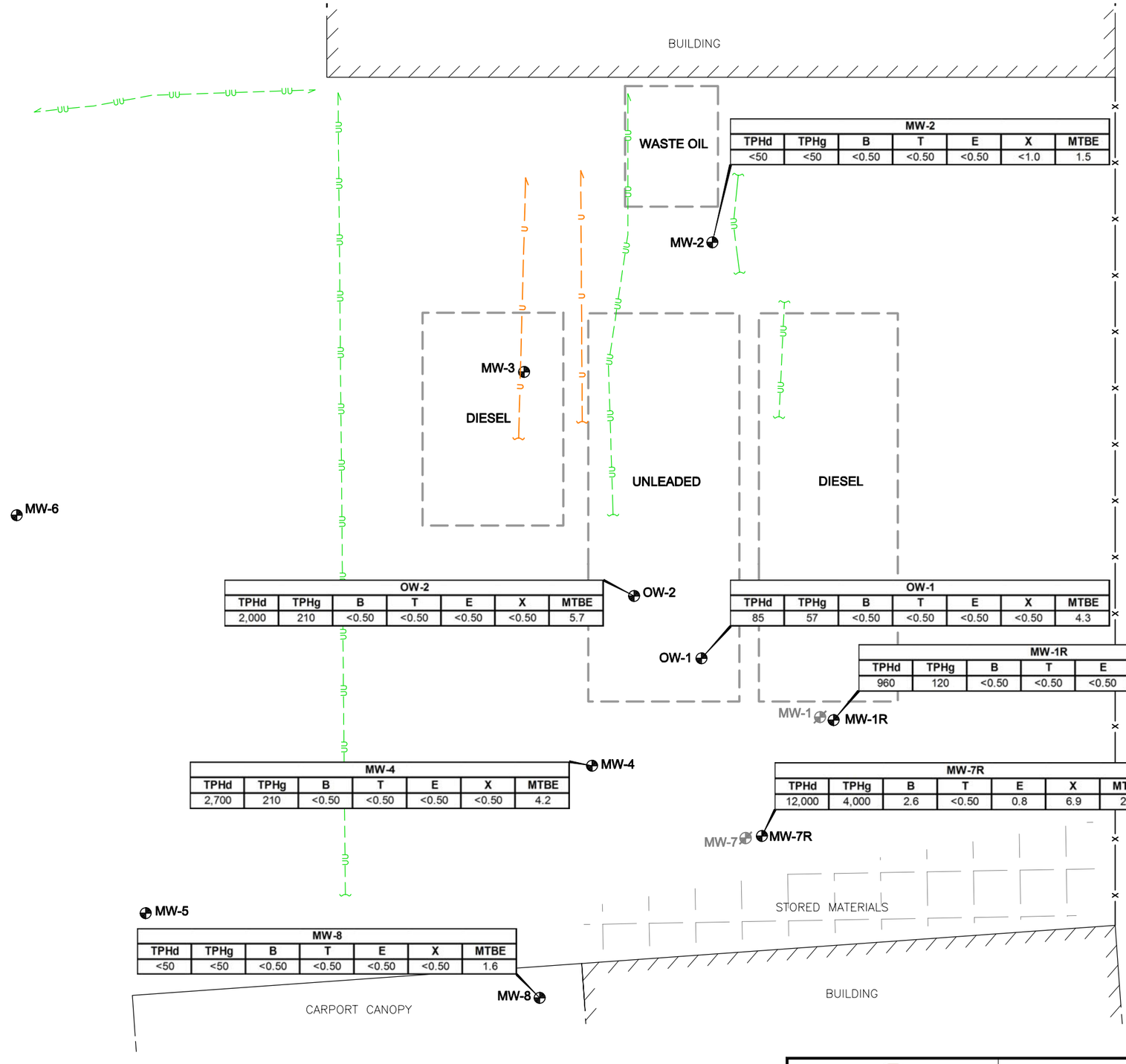
PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION SURFACE CONTOUR MAP JULY 2010

FIGURE: 4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0001	RRR/JBL	EH	EH	08/24/10

FILEPATH:C:\-Temp_DWG_Files\AcPublish_1580\Penske-2010-Semi-F2_F4.dwg|rroggasch|Aug 24, 2010 at 6:29|Layout: F4-July-GW



LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- EXISTING MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION

ABBREVIATIONS:

TPHd	- Total Petroleum Hydrocarbons as diesel
TPHg	- Total Petroleum Hydrocarbons as gasoline
B	- Benzene
T	- Toluene
E	- Ethylbenzene
X	- Total Xylenes
MTBE	- Methyl tert-butyl ether
NS	- Not Sampled

NOTE:

1. All results in micrograms per liter (µg/L).
2. Samples collected July 16, 2010.

0 20 40

APPROXIMATE SCALE IN FEET

NOTE:

UTILITIES BASED ON FIGURE PROVIDED BY NORCAL GEOPHYSICAL INC. (2008)

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Lafayette, California, 94549
PHONE: (925) 299-9300 FAX: (925) 299-9302

PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

FUEL HYDROCARBONS CONSTITUENTS IN GROUNDWATER

FIGURE: 5

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0001	JBL/RRR	EH	EH	09/15/10

FIGURE 6
TPHd versus Time
725 Julie Ann Way, Oakland, CA

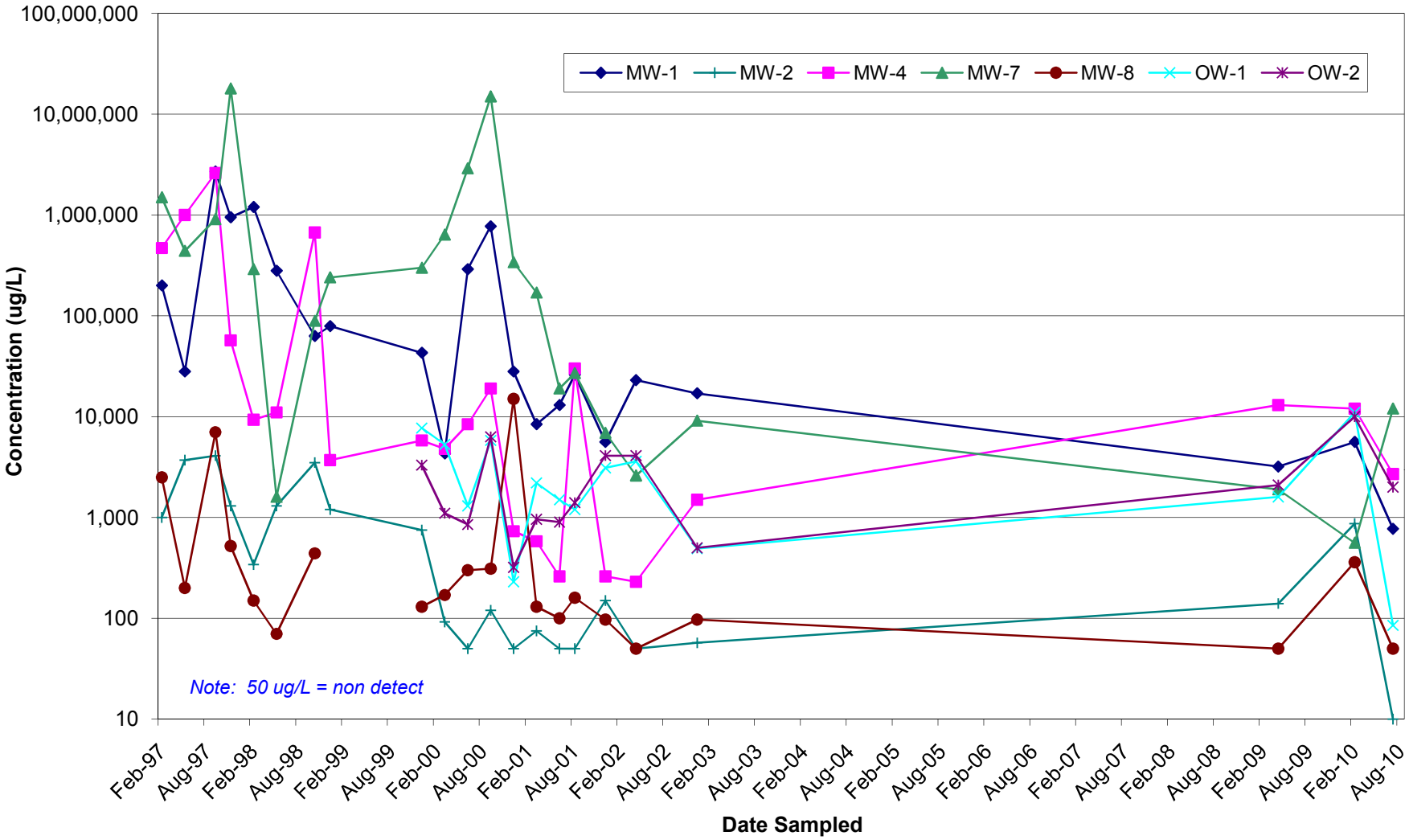


FIGURE 7
TPHg versus Time
725 Julie Ann Way, Oakland, CA

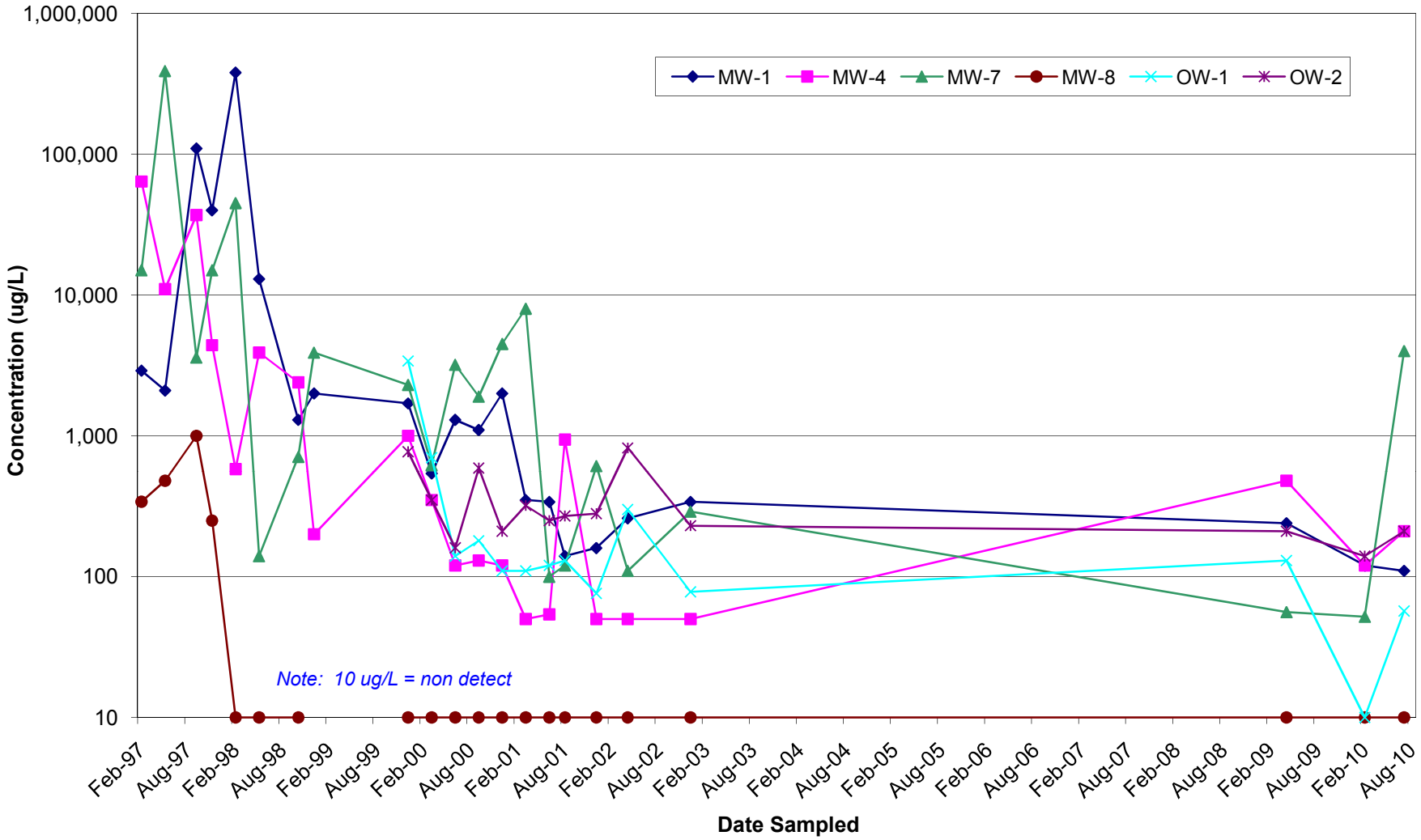


FIGURE 8
Benzene versus Time
725 Julie Ann Way, Oakland, CA

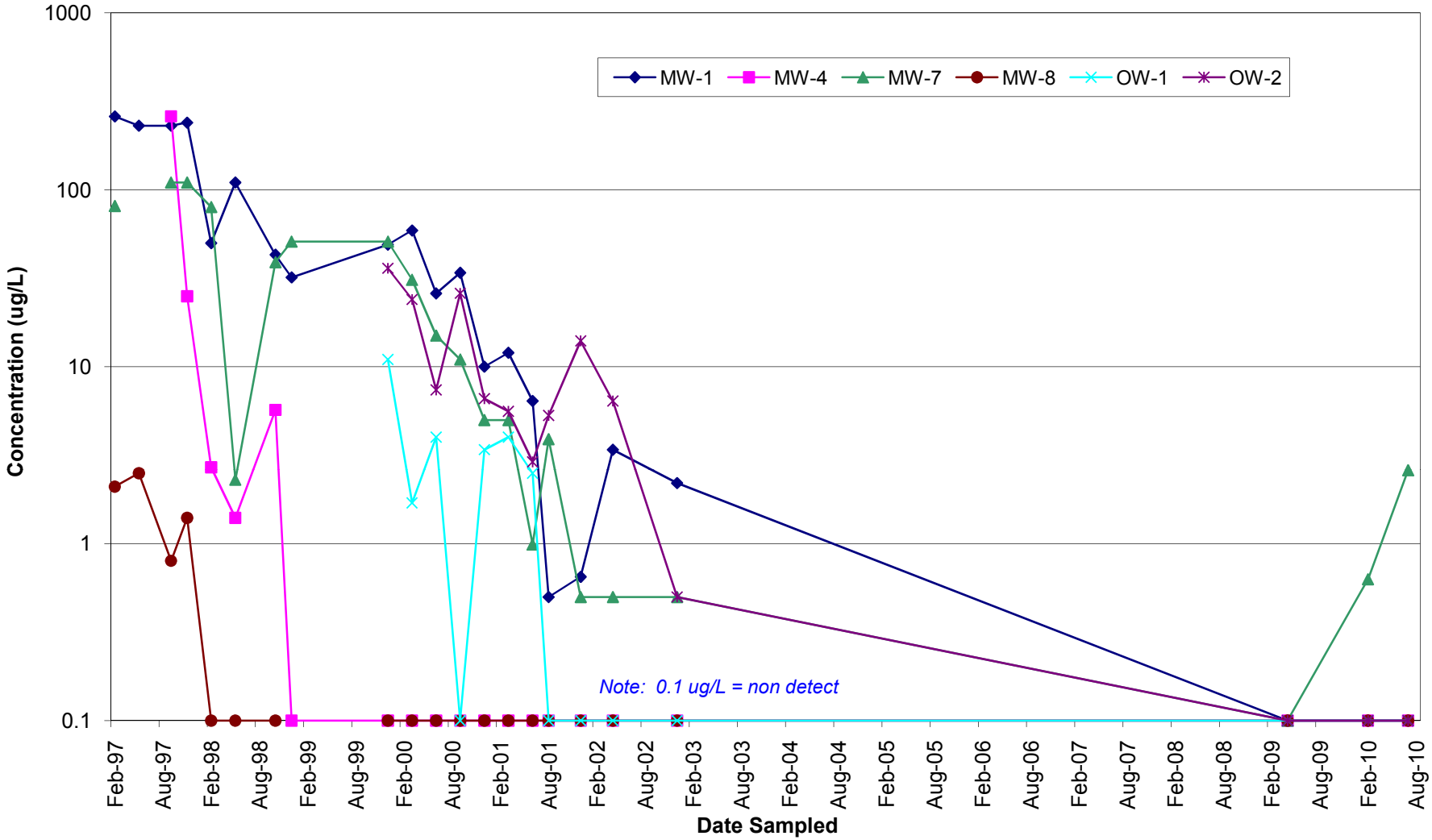
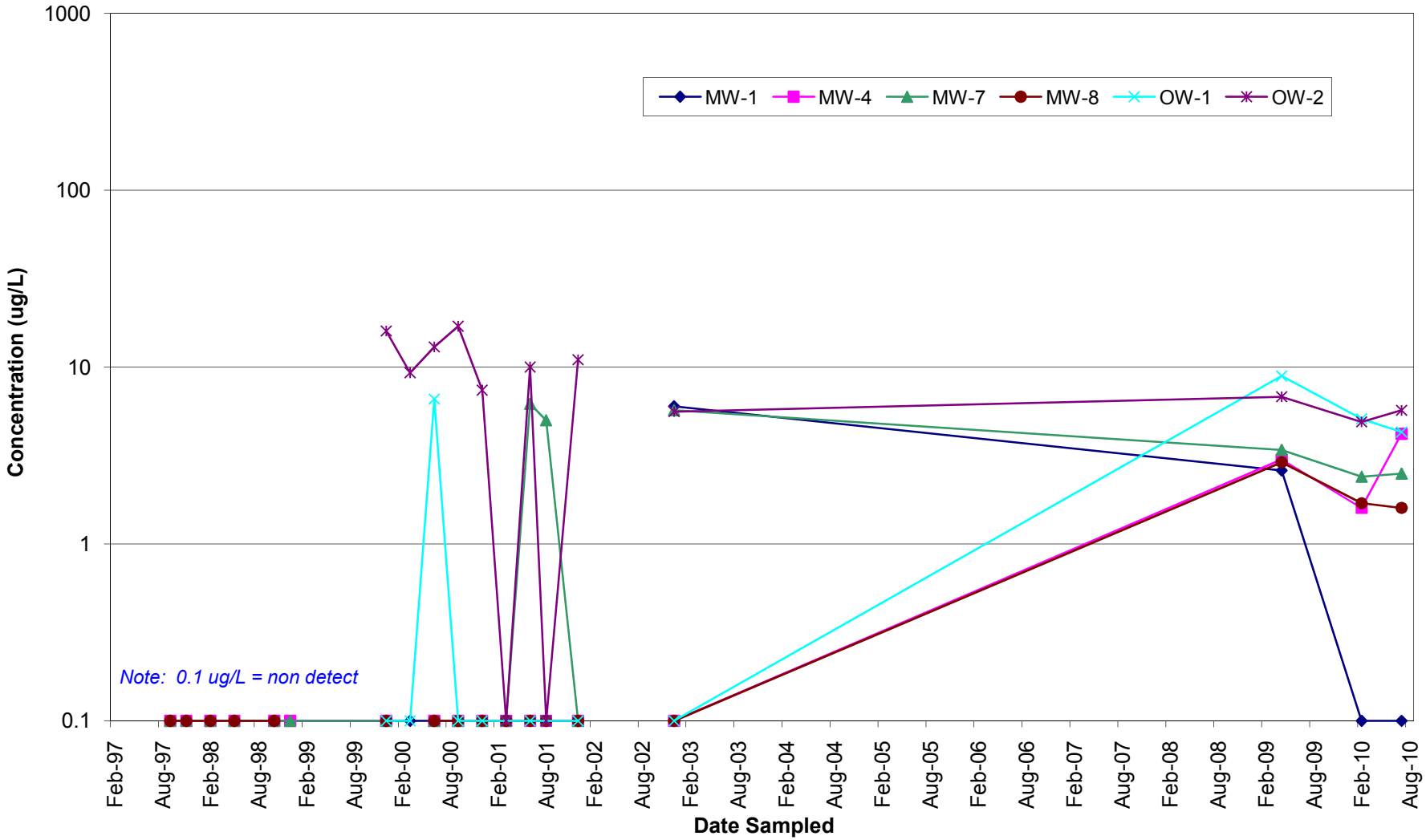


FIGURE 9
MTBE versus Time
725 Julie Ann Way, Oakland, CA



Stantec

APPENDIX A
Groundwater Sample Collection Logs

2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001
October 1, 2010

Stantec

FIELD DATA SHEETS
Second Quarter 2010

WELLHEAD INSPECTION CHECKLIST

Date 5-10-10 Client STANTEC

Site Address 725 JULIE ANN WY OAKLAND, CA

Job Number 100510-FS1 Technician FS

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	✓							
MW-2				*				*
MW-3		✓						*
MW-4							✓	
MW-5								*
MW-6								**
MW-7A	✓							
MW-8								**
OW-1								**
OW-2								**

NOTES: * MODIFIED DROP FIT 12" LID, NO BOLTS

MW-4 NO BOLTS, ** 2 TABS STRIPPED (3/4" BOLTS MORISON)

WELL GAUGING DATA

Project # 160510-FS2 Date 5-10-10 Client STANTEC

Site 725 JULIE ANN WAY OAKLAND, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1425	2	ODOR	—	—	—	4.58	19.52	TOC	
MW-2	1420	4		—	—	—	5.46	28.78		
MW-3	1418	4		—	—	—	5.52	33.30		
MW-4	1328	4		—	—	—	4.55	33.06		
MW-5	1401	4		—	—	—	4.20	31.05		
MW-6	1415	4		—	—	—	4.79	24.35		
MW-7A	1430	2	ODOR	—	—	—	4.55	19.24		
MW-8	1338	4	ODOR	—	—	—	4.54	25.70		
OW-1	1345	4		—	—	—	4.13	13.35		
OW-2	1355	4		—	—	—	4.49	14.04		
	* All wells gauged with Interface probe. No SPH detected									

Stantec

FIELD DATA SHEETS
Third Quarter 2010

S[illegible] or Purge Water Drum Lo[illegible]

Client: Stanbee

Site Address: 725 Clinton Ann Way

STATUS OF DRUM(S) UPON ARRIVAL						
Date	4/22/09	2/8/10	7/16/10			
Number of drum(s) empty:	3					
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	1 (soil)	19				
Total drum(s) on site:	4	19	0			
Are the drum(s) properly labeled?	Y					
Drum ID & Contents:	purge H2O	Purge H2O Soil				
If any drum(s) are partially or totally filled, what is the first use date:	—					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	4/22/09	2/8/10	7/16/10			
Number of drums empty:	—	—				
Number of drum(s) 1/4 full:	1	1				
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	~~5~~ 4 (soil)	22	3			
Total drum(s) on site:	6	23	3			
Are the drum(s) properly labeled?	Y	Y	Y			
Drum ID & Contents:	purge H2O	Purge H2O Soil	→			

LOCATION OF DRUM(S)
Describe location of drum(s): Near MW-7A, aloud rolling door, by bollard

FINAL STATUS						
Number of new drum(s) left on site this event	2	4	3			
Date of inspection:	4/22/09	2/8/10	7/16/10			
Drum(s) labelled properly:	Y	Y	Y			
Logged by BTS Field Tech:	[illegible]	[illegible]	[illegible]			
Office reviewed by:	[illegible]	[illegible]	[illegible]			

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME: Skytec @ Perris				PROJECT NUMBER: 20716-PC1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. C°	INITIALS
Myron L		7/16/10 800	4/7/10 pH 3900 µS	4.21/7.05/999 4.03	Y	25.9	R

WELLHEAD INSPECTION CHECKLIST

Date 7/16/10 Client Stantec

Site Address 725 Julia Ave, Oakland

Job Number 100716-P1 Technician P. Cornish

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1R	X							
MW-2							X	
MW-3							X	
MW-4							X	
MW-5							X	
MW-6							X	
MW-7R	X							
MW-8							X	
OW-1							X	
OW-2							X	

NOTES: MW-2, MW-3, MW-5 — lid not securable - 1/2" steel plate

MW-4, 6, 8, OW-1, OW-2 → 2/2 tabs stripped

WELL GAUGING DATA

Project # 100716-PC1 Date 7/16/10 Client Stantec

Site 725 Julie Ann Wy, Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1R	750	2					4.98	19.50		
MW-2	758	4					5.80	28.78		
MW-3	815	4					5.90	35.35		
MW-4	802	4					5.12	33.12		
MW-5	826	4					4.44	31.00		
MW-6	830	4					5.03	24.32		
MW-7R	822	2					4.82	19.25		
MW-8	810	4					4.80	25.70		
OW-1	835	4					4.31	13.34		
OW-2	838	4					4.47	14.01		

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-1R	Well Diameter: ② 3 4 6 8 ____
Total Well Depth (TD): 19.50	Depth to Water (DTW): 4.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.88	

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

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

2.3 (Gals.) X	3 =	6.9 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1227	21.0	7.26	2573	341	2.3	
1229	20.5	7.15	2791	165	4.6	
1232	20.9	7.14	2798	121	7	

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Date: 7/16/10 Sampling Time: 1242 Depth to Water: 5.41

Sample I.D.: ~~MW-5~~ MW-1R Laboratory: Kiff CalScience Other C&T

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Duplicate @ 1252

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

D.O. (if req'd):	Pre-purge:	~~0.63~~ 0.15 mg/L	Post-purge:	0.18	mg/L
O.R.P. (if req'd):	Pre-purge:	-139 mV	Post-purge:	-152	mV

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 28.78	Depth to Water (DTW): 5.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.40	

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

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

14.9 (Gals.) X	3 =	44.7 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
916	19.9	6.56	3659	30	15	
922	19.2	7.13	4218	27	30	
926	19.0	7.19	4331	26	45	

Did well dewater? Yes (No) Gallons actually evacuated: 45

Sampling Date: 7/16/10 Sampling Time: 930 Depth to Water: 5.90

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other CET

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

EB I.D. (if applicable): Equipment Blank @ Time 940 Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	0.40 mg/L	Post-purge:	0.76	mg
O.R.P. (if req'd):	Pre-purge:	104 mV	Post-purge:	72	

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 33.12	Depth to Water (DTW): 5.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.72	

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

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

1 Case Volume	Specified Volumes	Calculated Volume
18.2 (Gals.) X	3	= 54.6 Gals.

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1122	well dewatered @			14 gal.		
1310	21.7	6.99	8960	55		
2" submersible pump deployed to top of obstruction ~ 13' down						

Did well dewater? (Yes) No Gallons actually evacuated: 14

Sampling Date: 7/16/10 Sampling Time: 1310 Depth to Water: 5.15

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other C&T

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

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

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

D.O. (if req'd):	Pre-purge:	0.47	mg/L	Post-purge:	0.22
O.R.P. (if req'd):	Pre-purge:	-107	mV	Post-purge:	-124

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-7R	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.25	Depth to Water (DTW): 4.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.71	

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

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

2.3 (Gals.) X 3 = 6.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1200	19.7	7.27	4252	143	2.3	
1203	19.4	7.28	3726	112	4.6	
1206	19.3	7.28	3616	62	7	

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Date: 7/16/10 Sampling Time: 1215 Depth to Water: 4.96

Sample I.D.: MW-7R Laboratory: Kiff CalScience Other C&T

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

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

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

D.O. (if req'd):	Pre-purge:	0.12 mg/L	Post-purge:	0.24	mg/L
O.R.P. (if req'd):	Pre-purge:	-148 mV	Post-purge:	-105	mV

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 25.70	Depth to Water (DTW): 4.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.98	

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

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

13.6 (Gals.) X 3 = 40.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
948	18.5	7.22	6364	33	13.5	
952	18.7	7.13	6061	26	27	
956	18.6	7.26	6066	18	41	

Did well dewater? Yes (No) Gallons actually evacuated: 41

Sampling Date: 7/16/10 Sampling Time: 1005 Depth to Water: 7.09

Sample I.D.: MW-8 Laboratory: Kiff CalScience Other C&T

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

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

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

D.O. (if req'd):	Pre-purge:	0.29 mg/L	Post-purge:	0.26	mg/L
O.R.P. (if req'd):	Pre-purge:	68 mV	Post-purge:	N/d	mV

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 13.34	Depth to Water (DTW): 4.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.12	

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

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

5.9 (Gals.) X	3	=	17.7 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1018	19.8	7.04	13354	41	6	
1021	20.1	7.05	3269	27	12	
1024	20.6	7.03	3222	18	18	

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Date: 7/16/10 Sampling Time: 1030 Depth to Water: 4.40

Sample I.D.: MW-1 Laboratory: Kiff CalScience Other C&T

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

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

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

D.O. (if req'd):	Pre-purge:	0.41 mg/L	Post-purge:	0.35	mg/L
O.R.P. (if req'd):	Pre-purge:	-81 mV	Post-purge:	-118	mV

WELL MONITORING DATA SHEET

Project #: 100716-PC1	Client: Stantec
Sampler: PC	Date: 7/16/10
Well I.D.: OW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.01	Depth to Water (DTW): 4.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.38	

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

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

1 Case Volume	(Gals.) X Specified Volumes	= Calculated Volume	Gals.
6.2	3	18.6	

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1040	21.2	7.12	3152	5	6.2	
1043	20.9	7.12	3142	3	12.4	
1046	20.8	7.11	3122	3	19	

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Date: 7/16/10 Sampling Time: 1052 Depth to Water: 4.57

Sample I.D.: OW-2 Laboratory: Kiff CalScience Other CET

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

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

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

D.O. (if req'd):	Pre-purge:	0.38 mg/L	Post-purge:	0.27	mg/L
O.R.P. (if req'd):	Pre-purge:	-107 mV	Post-purge:	-123	mV

Stantec

APPENDIX B
Water Sample Laboratory Reports and Chain-of-Custody Forms

2010 Semi-Annual Monitoring and Sampling Report
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California
Alameda County Site ID RO0000354
Stantec PN: 185702145 200.0001
October 1, 2010


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 221310
ANALYTICAL REPORT

Stantec	Project : STANDARD
57 Lafayette Circle	Location : 725 Julie Ann Way
Lafayette, CA 94549-4321	Level : II

Sample ID	Lab ID
MW-1R	221310-001
MW-2	221310-002
MW-4	221310-003
MW-7R	221310-004
MW-8	221310-005
OW-1	221310-006
OW-2	221310-007
DUPLICATE	221310-008
EQUIPMENT BLANK	221310-009
TRIP BLANK	221310-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/26/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**221310**
Client:	**Stantec**
Location:	**725 Julie Ann Way**
Request Date:	**07/16/10**
Samples Received:	**07/16/10**

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 07/16/10. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

221310

DHS #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

LAB: C&T Berkeley

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ RWQCB REGION
☐ EPA
☐ LIA
☐ OTHER

CHAIN OF CUSTODY BTS # 100716-SK1

CLIENT: Stantec

SITE: 725 Julie Ann Way
Oakland CA

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

SPECIAL INSTRUCTIONS

Invoice and Report to : Stantec
Attn: Eva Hey (925) 299-9300 Ext. 237
eva.hey@stantec.com

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	TPH-g (8015M)	TPH-d w/SGC (8015M)	BTEX, MTBE, EDC, EDB (8260)	Napthalene (8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1 MW-1R	7/16	1242	W	7	X	X	X	X				
2 MW-2		930			X	X	X	X				
3 MW-4		1310			X	X	X	X				
4 MW-7R		1215			X	X	X	X				
5 MW-8		1005			X	X	X	X				
6 MW-1		1030			X	X	X	X				
7 MW-2		1052			X	X	X	X				
8 Duplicate		1252			X	X	X	X				
9 EquipmentBlank		940		2	X							
10 TripBlank		800	✓									

RESULTS NEEDED NO LATER THAN: Standard TAT

SAMPLING COMPLETED	DATE 7/16/10	TIME 1330	SAMPLING PERFORMED BY P. Cormish	DATE 7/16/10	TIME 1415
RELEASED BY	DATE	TIME	RECEIVED BY	DATE 7/16/10	TIME 1415
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE SENT	TIME SENT	COOLER #		

intact on ice cold Ra

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 221310 Date Received 7/16/10 Number of coolers 1
Client STANTEC Project 725 JULIE ANN WAY

Date Opened 7/16/10 By (print) M. VILLANUEVA (sign)
Date Logged in ✓ By (print) ✓ (sign)

1. Did cooler come with a shipping slip (airbill, etc) ________ YES **NO** (circled)
   Shipping info ________

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ **NO** (circled)
   How many ______ Name ______ Date ______

2B. Were custody seals intact upon arrival? ________ YES NO **N/A** (circled)

3. Were custody papers dry and intact when received? ________ **YES** (circled) NO

4. Were custody papers filled out properly (ink, signed, etc)? ________ **YES** (circled) NO

5. Is the project identifiable from custody papers? (If so fill out top of form) ___ **YES** (circled) NO

6. Indicate the packing in cooler: (if other, describe) ________

- ☑ Bubble Wrap
- ☐ Foam blocks
- ☑ Bags
- ☐ None
- ☐ Cloth material
- ☐ Cardboard
- ☐ Styrofoam
- ☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) ________

   ☑ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ________ YES **NO** (circled)
   If YES, what time were they transferred to freezer? ________

9. Did all bottles arrive unbroken/unopened? ________ **YES** (circled) NO

10. Are samples in the appropriate containers for indicated tests? ________ **YES** (circled) NO

11. Are sample labels present, in good condition and complete? ________ **YES** (circled) NO

12. Do the sample labels agree with custody papers? ________ **YES** (circled) NO

13. Was sufficient amount of sample sent for tests requested? ________ **YES** (circled) NO

14. Are the samples appropriately preserved? ________ **YES** (circled) NO N/A

15. Are bubbles > 6mm absent in VOA samples? ________ **YES** (circled) NO N/A

16. Was the client contacted concerning this sample delivery? ________ YES NO
   If YES, Who was called? ________ By ________ Date: ________

COMMENTS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/16/10
Units:	ug/L	Received:	07/16/10

Field ID:	MW-1R	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-001	Analyzed:	07/17/10

Analyte	Result	RL
Gasoline C7-C12	110 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	70-140

Field ID:	MW-2	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-002	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	70-140

Field ID:	MW-4	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-003	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	210 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	70-140

Field ID:	MW-7R	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	165078
Lab ID:	221310-004	Analyzed:	07/20/10

Analyte	Result	RL
Gasoline C7-C12	4,000 Y	100

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	70-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/16/10
Units:	ug/L	Received:	07/16/10

Field ID:	MW-8	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-005	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	86	70-140

Field ID:	OW-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-006	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	57 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	70-140

Field ID:	OW-2	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-007	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	210 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	70-140

Field ID:	DUPLICATE	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-008	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	120 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	70-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/16/10
Units:	ug/L	Received:	07/16/10

Field ID:	EQUIPMENT BLANK	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-009	Analyzed:	07/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	70-140

Field ID:	TRIP BLANK	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	165009
Lab ID:	221310-010	Analyzed:	07/17/10

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	83	70-140

Type:	BLANK	Batch#:	165009
Lab ID:	QC552513	Analyzed:	07/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	70-140

Type:	BLANK	Batch#:	165078
Lab ID:	QC552783	Analyzed:	07/20/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	70-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC552514	Batch#:	165009
Matrix:	Water	Analyzed:	07/17/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,053	105	73-127

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	70-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	MW-1R	Batch#:	165009
MSS Lab ID:	221310-001	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/18/10
Diln Fac:	1.000		

Type: MS Lab ID: QC552515

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	111.2	2,000	2,000	94	68-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	70-140

Type: MSD Lab ID: QC552516

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,019	95	68-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	70-140

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC552784	Batch#:	165078
Matrix:	Water	Analyzed:	07/20/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	935.3	94	73-127

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	70-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	165078
MSS Lab ID:	221325-001	Sampled:	07/19/10
Matrix:	Water	Received:	07/19/10
Units:	ug/L	Analyzed:	07/20/10
Diln Fac:	1.000		

Type: MS Lab ID: QC552785

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.38	2,000	1,697	84	68-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	70-140

Type: MSD Lab ID: QC552786

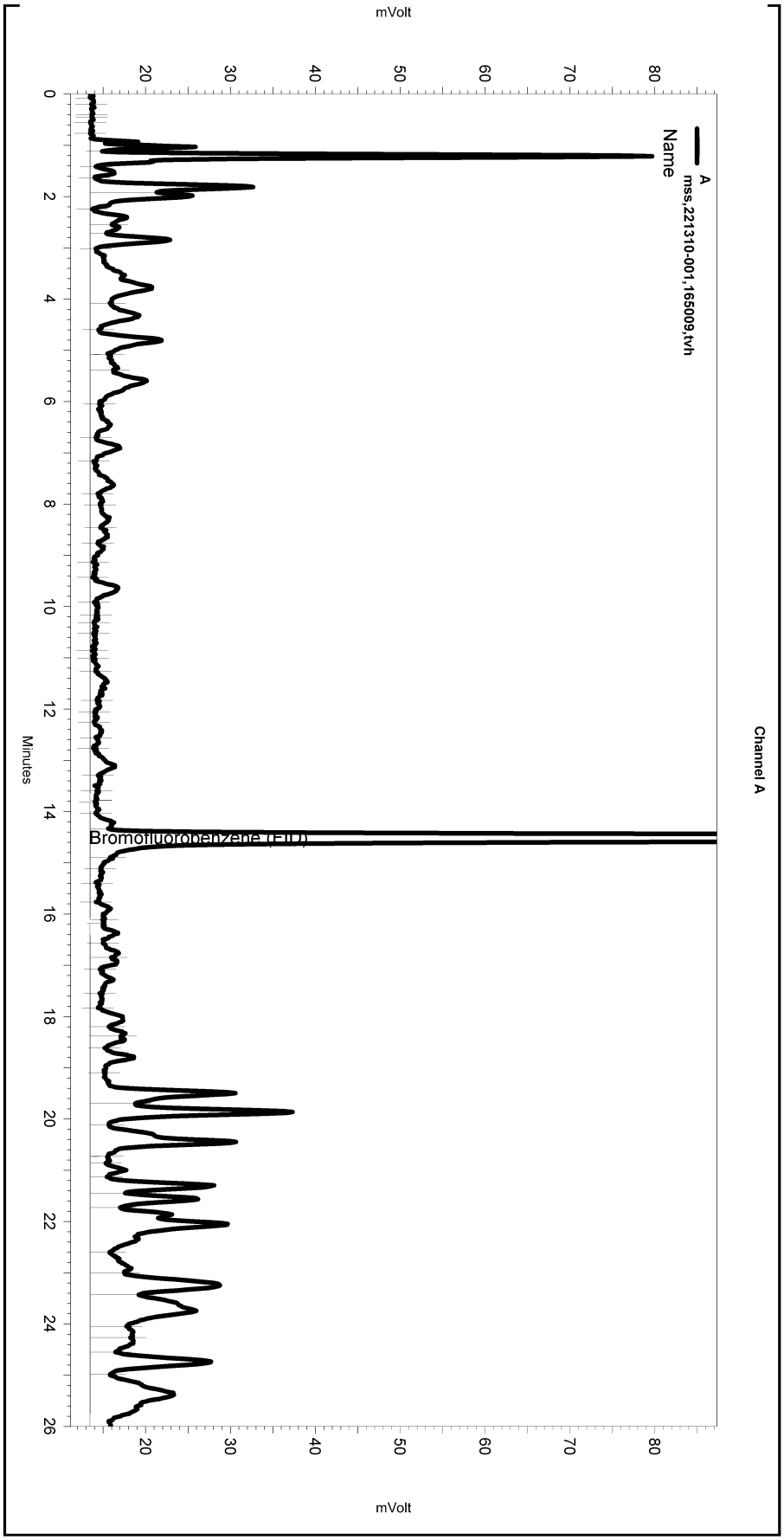
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,781	88	68-120	5	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	70-140

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **mss,221310-001,165009,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_008**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/17/2010 11:36:35 PM
Analysis Date: 7/19/2010 12:01:30 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0 hs<1.0ml



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

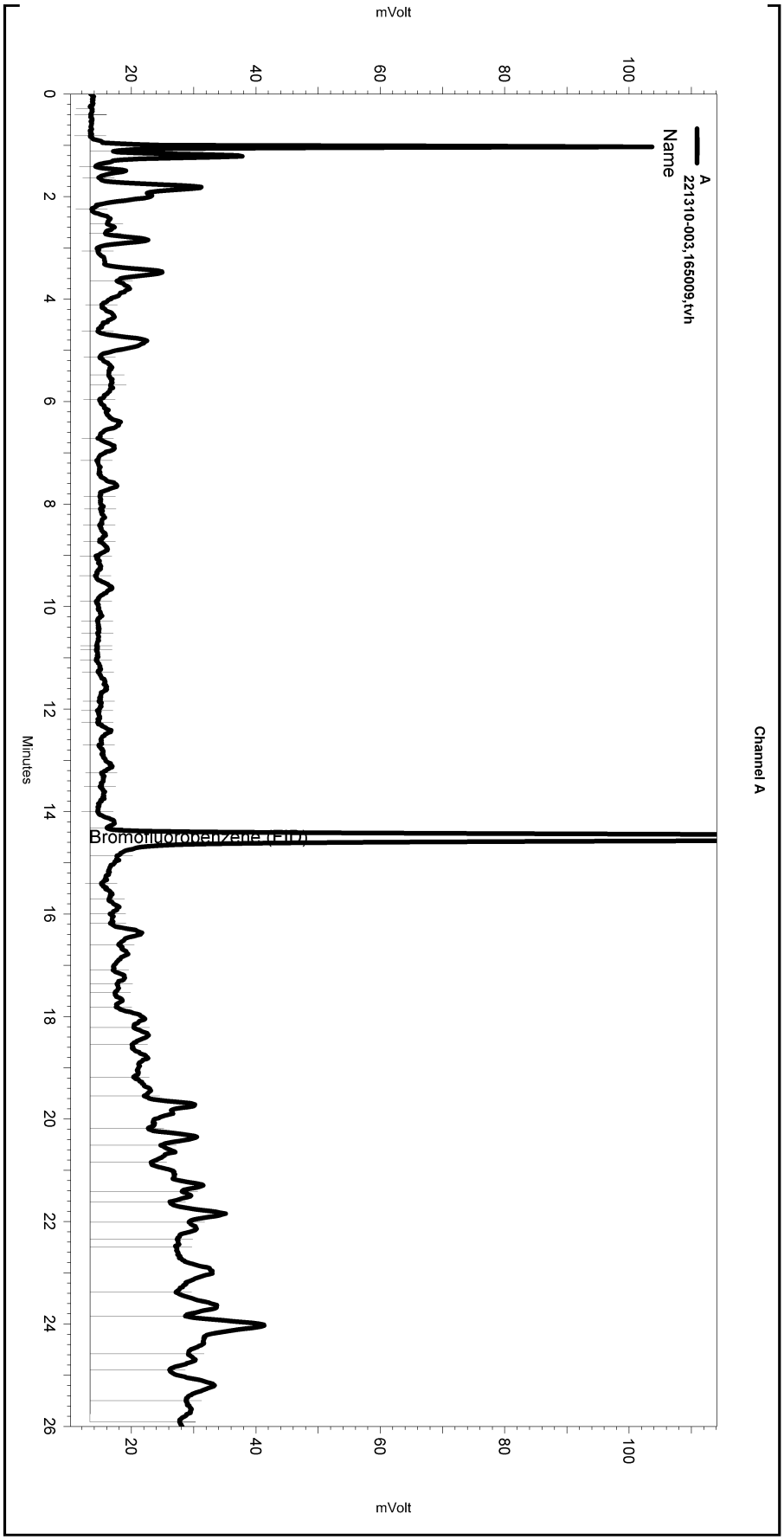
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.084	26.017	0
Yes	Split Peak	14.898	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **221310-003,165009,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_012**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/18/2010 2:07:24 AM
Analysis Date: 7/19/2010 12:01:58 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

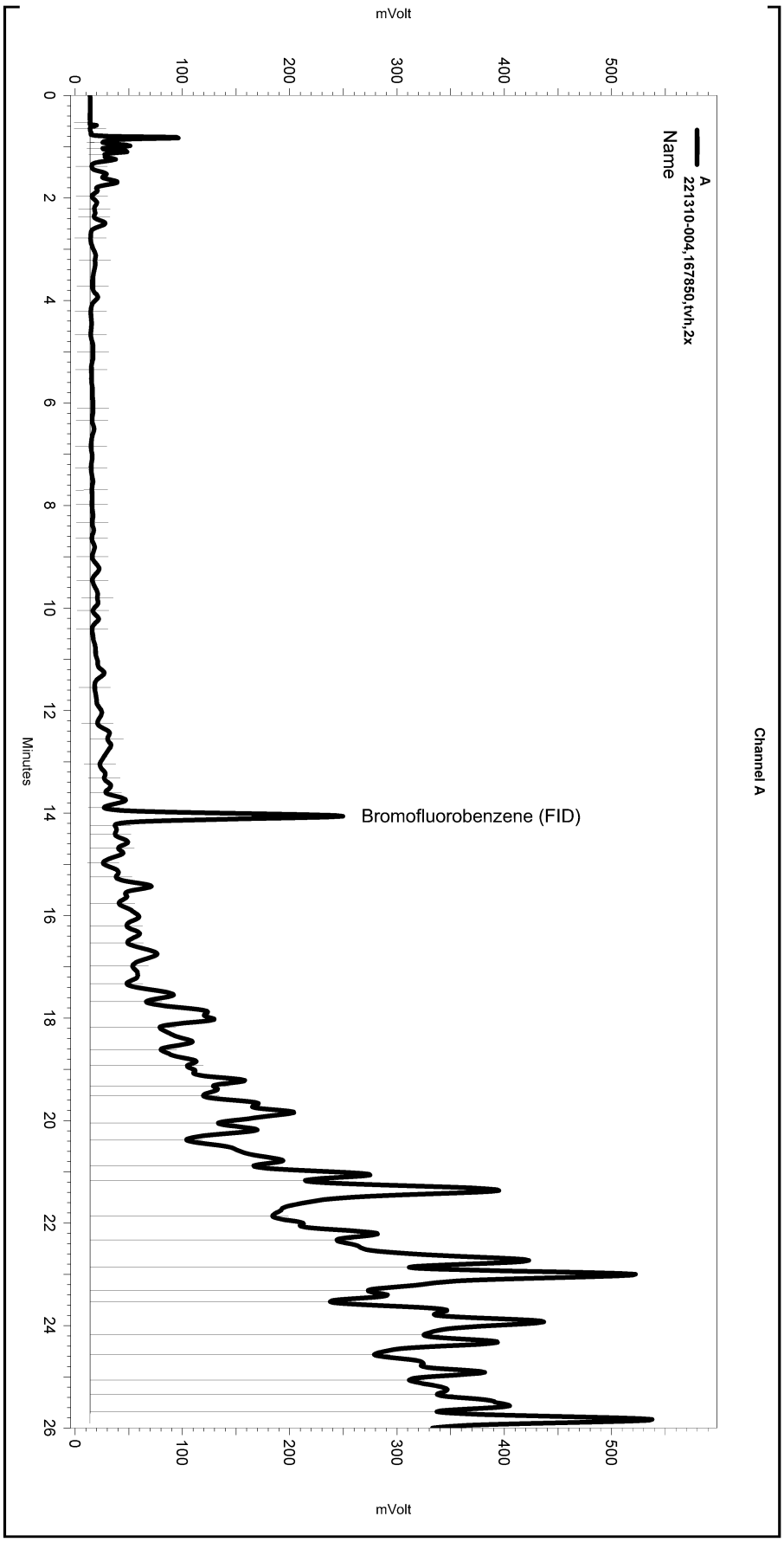
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.87	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC19\Sequence\201.seq**
Sample Name: **221310-004,167850,tvh,2x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC19\Data\201_012**
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe200.met

Software Version 3.1.7
Run Date: 7/20/2010 6:53:09 PM
Analysis Date: 7/21/2010 9:52:32 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0 hs<1mL



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

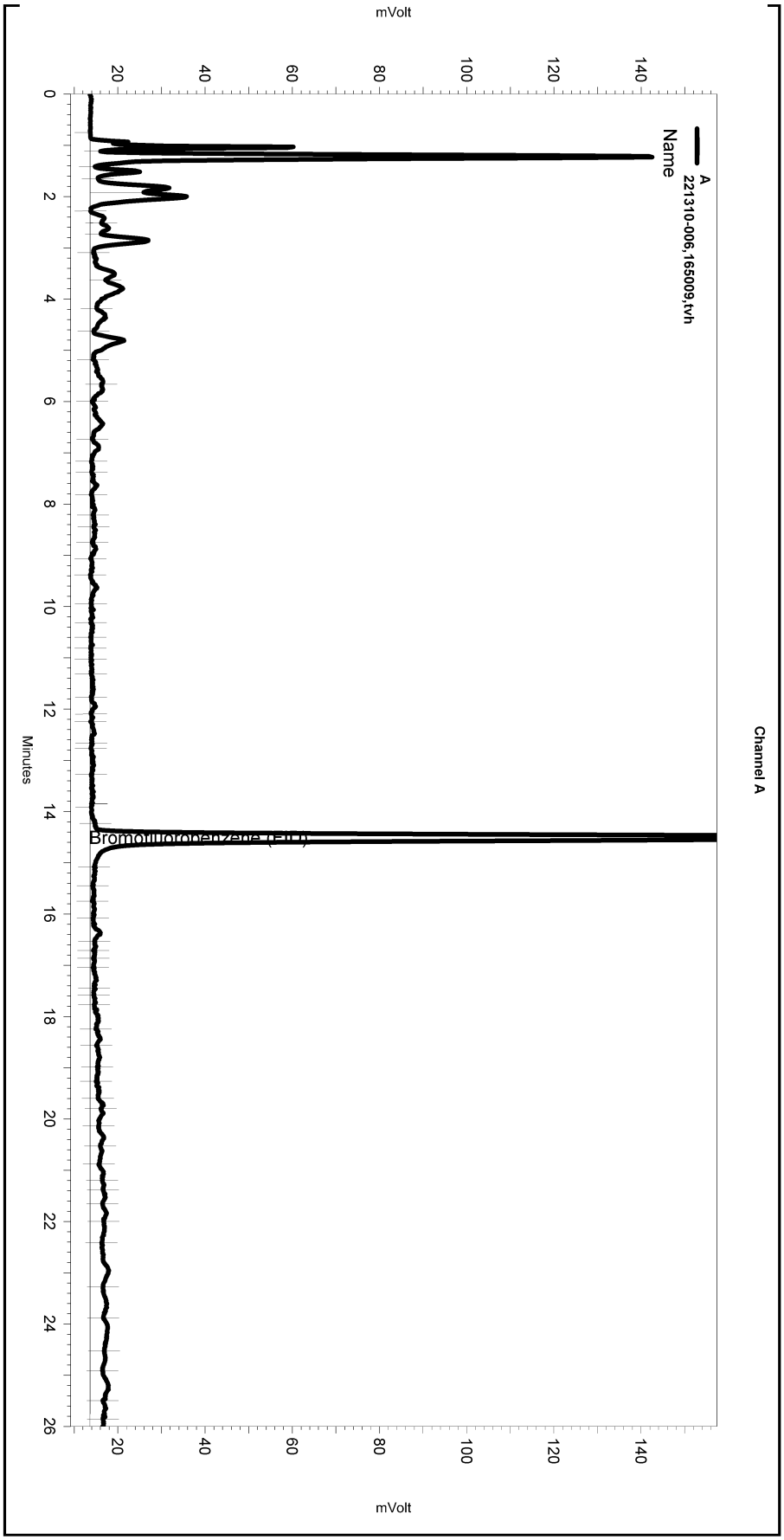
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\201_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.576	25.909	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **221310-006,165009,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_017**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/18/2010 5:16:30 AM
Analysis Date: 7/19/2010 12:02:32 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0 hs<1.0ml



---< General Method Parameters >---

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

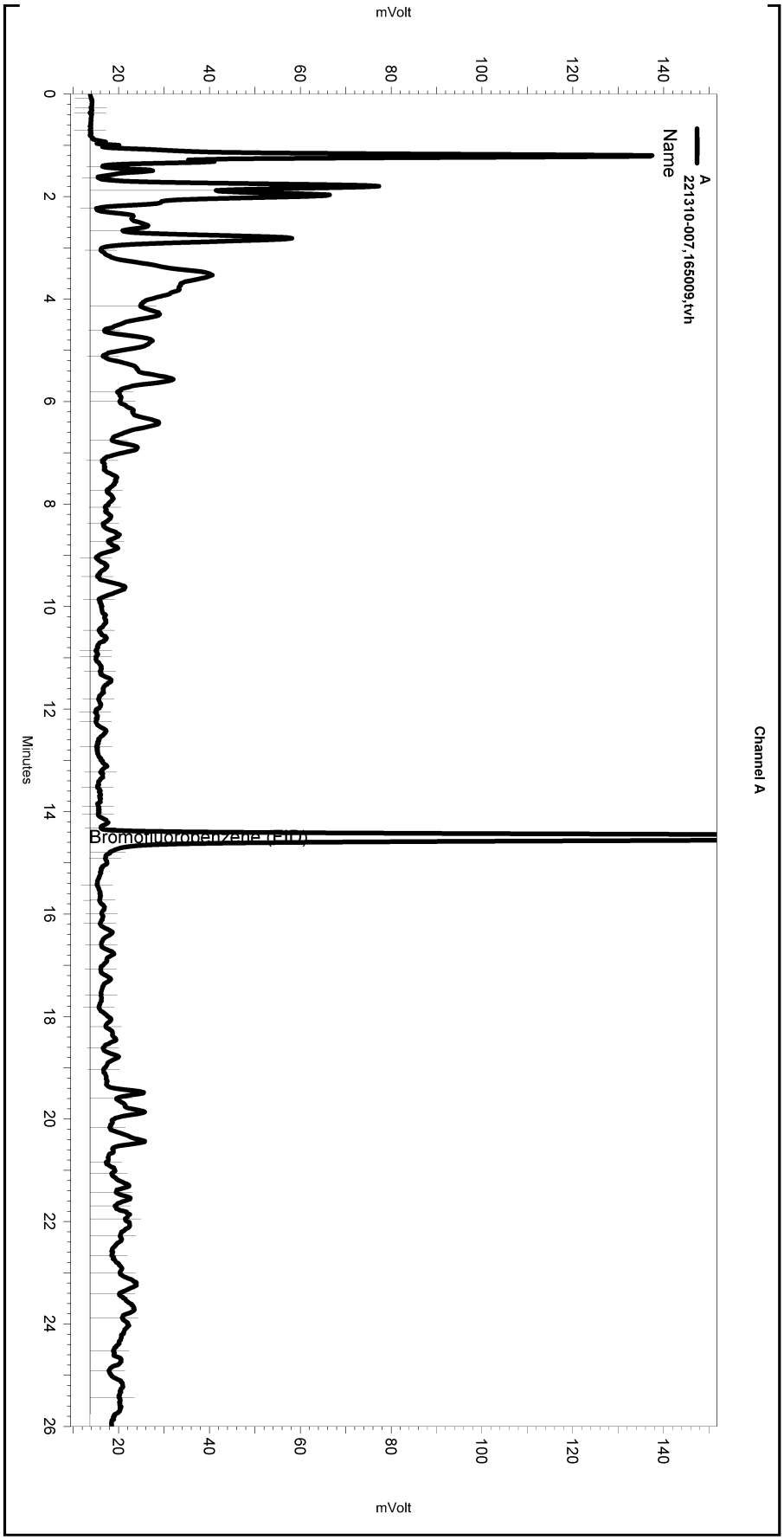
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.234	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **221310-007,165009,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_018**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/18/2010 5:56:21 AM
Analysis Date: 7/19/2010 12:02:40 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0 hs<1.0ml



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

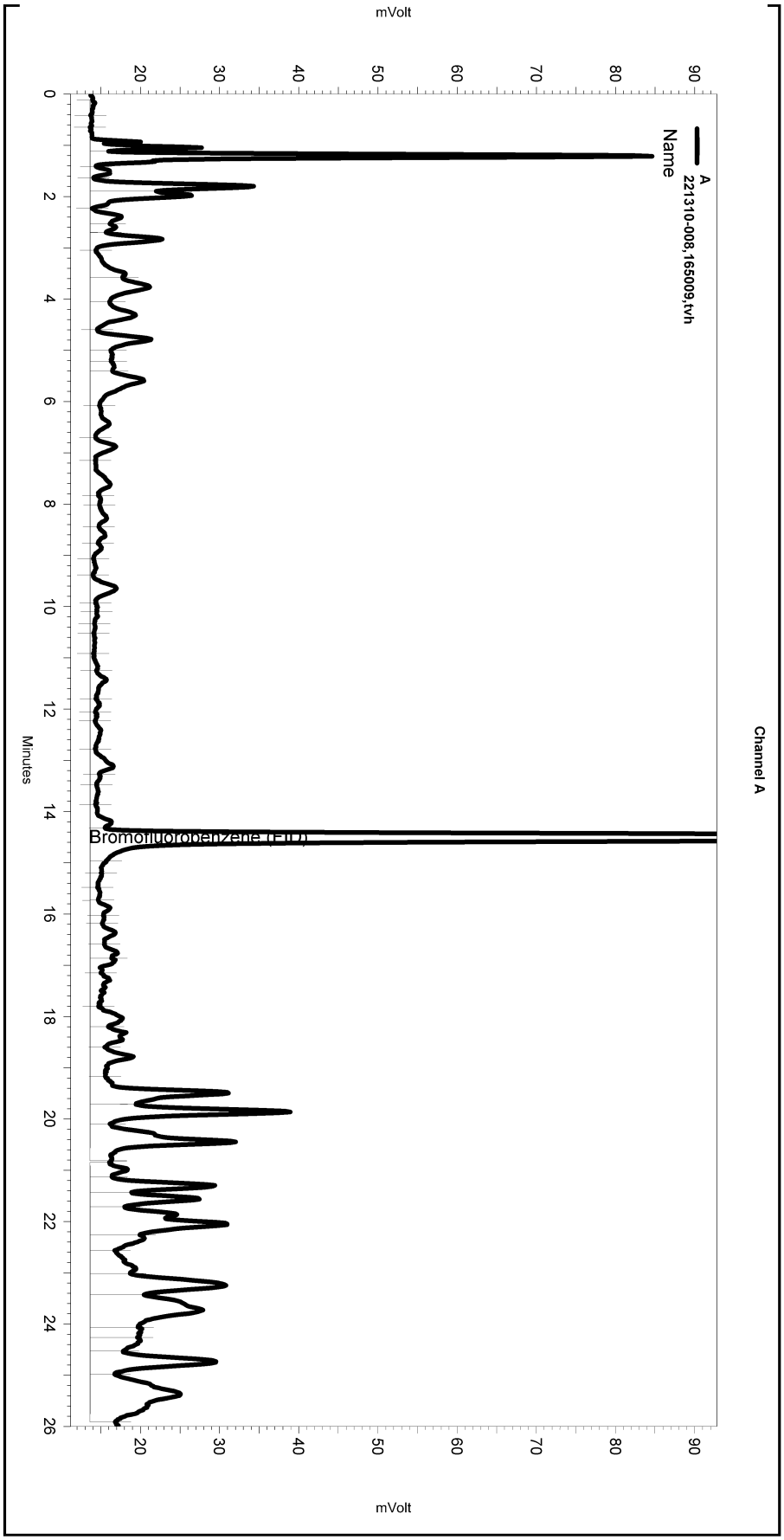
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.806	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **221310-008,165009,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_019**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/18/2010 6:34:38 AM
Analysis Date: 7/19/2010 12:02:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0 hs<1.0ml



---< General Method Parameters >---

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

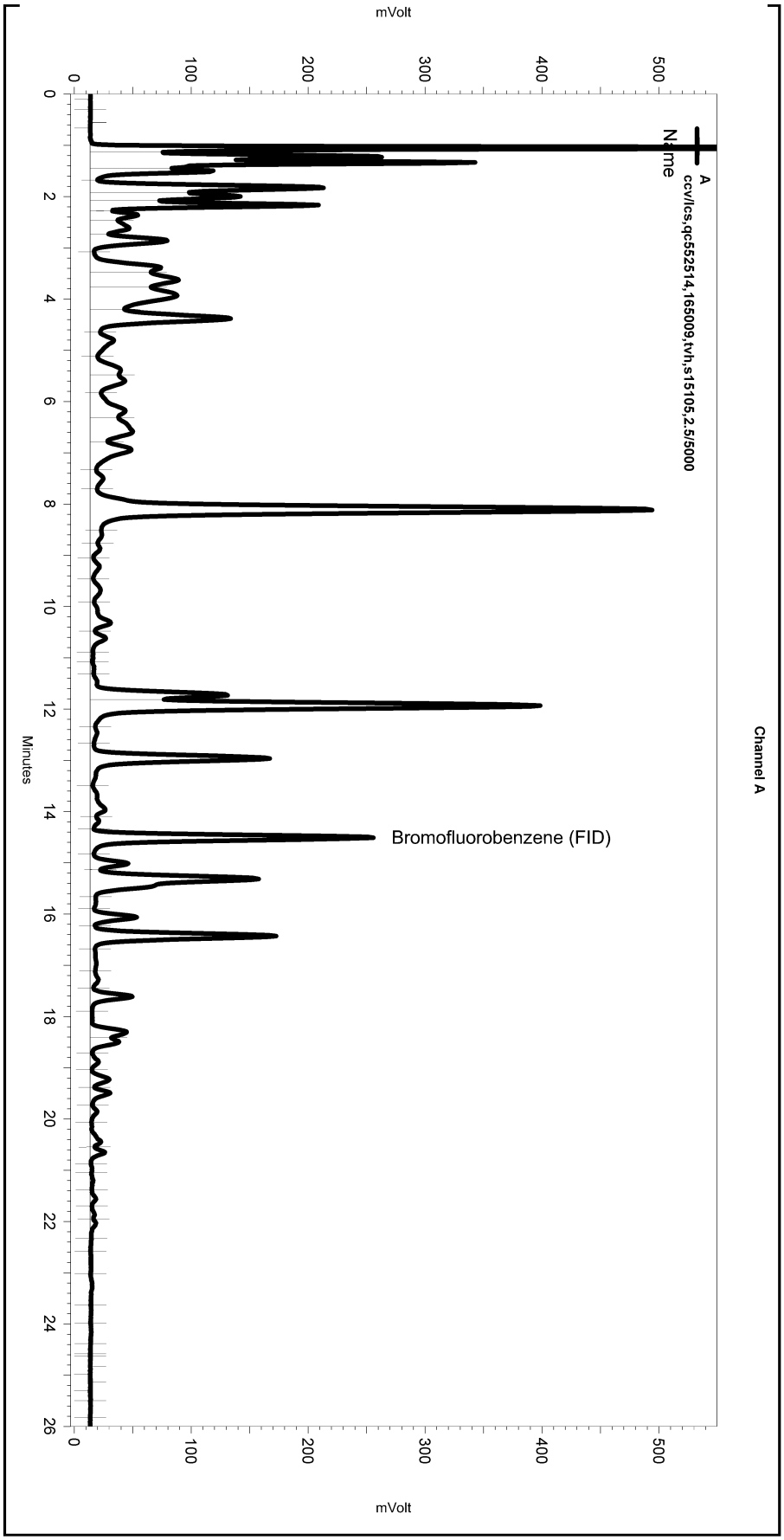
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.96	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\198.seq**
Sample Name: **ccv/lcs,qc552514,165009,tvh,s15105,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\198_005**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 7/17/2010 7:59:41 PM
Analysis Date: 7/19/2010 10:12:53 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\198_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Manual Peak	22.33	22.59	0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/16/10
Units:	ug/L	Received:	07/16/10
Diln Fac:	1.000	Prepared:	07/19/10
Batch#:	165039	Analyzed:	07/20/10

Field ID: MW-1R
Type: SAMPLE
Lab ID: 221310-001
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	770	50

Surrogate	%REC	Limits
o-Terphenyl	104	60-129

Field ID: MW-2
Type: SAMPLE
Lab ID: 221310-002
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	112	60-129

Field ID: MW-4
Type: SAMPLE
Lab ID: 221310-003
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	2,700	50

Surrogate	%REC	Limits
o-Terphenyl	107	60-129

Field ID: MW-7R
Type: SAMPLE
Lab ID: 221310-004
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	12,000	50

Surrogate	%REC	Limits
o-Terphenyl	107	60-129

Field ID: MW-8
Type: SAMPLE
Lab ID: 221310-005
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	107	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/16/10
Units:	ug/L	Received:	07/16/10
Diln Fac:	1.000	Prepared:	07/19/10
Batch#:	165039	Analyzed:	07/20/10

Field ID: OW-1 Lab ID: 221310-006
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	85 Y	50

Surrogate	%REC	Limits
o-Terphenyl	95	60-129

Field ID: OW-2 Lab ID: 221310-007
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	2,000	50

Surrogate	%REC	Limits
o-Terphenyl	100	60-129

Field ID: DUPLICATE Lab ID: 221310-008
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	960	50

Surrogate	%REC	Limits
o-Terphenyl	90	60-129

Field ID: EQUIPMENT BLANK Lab ID: 221310-009
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	111	60-129

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC552613

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	112	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC552614	Batch#:	165039
Matrix:	Water	Prepared:	07/19/10
Units:	ug/L	Analyzed:	07/20/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,342	94	54-125

Surrogate	%REC	Limits
o-Terphenyl	127	60-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	165039
MSS Lab ID:	221305-004	Sampled:	07/15/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Prepared:	07/19/10
Diln Fac:	1.000	Analyzed:	07/20/10

Type: MS Lab ID: QC552615

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	23.97	2,500	1,949	77	46-131

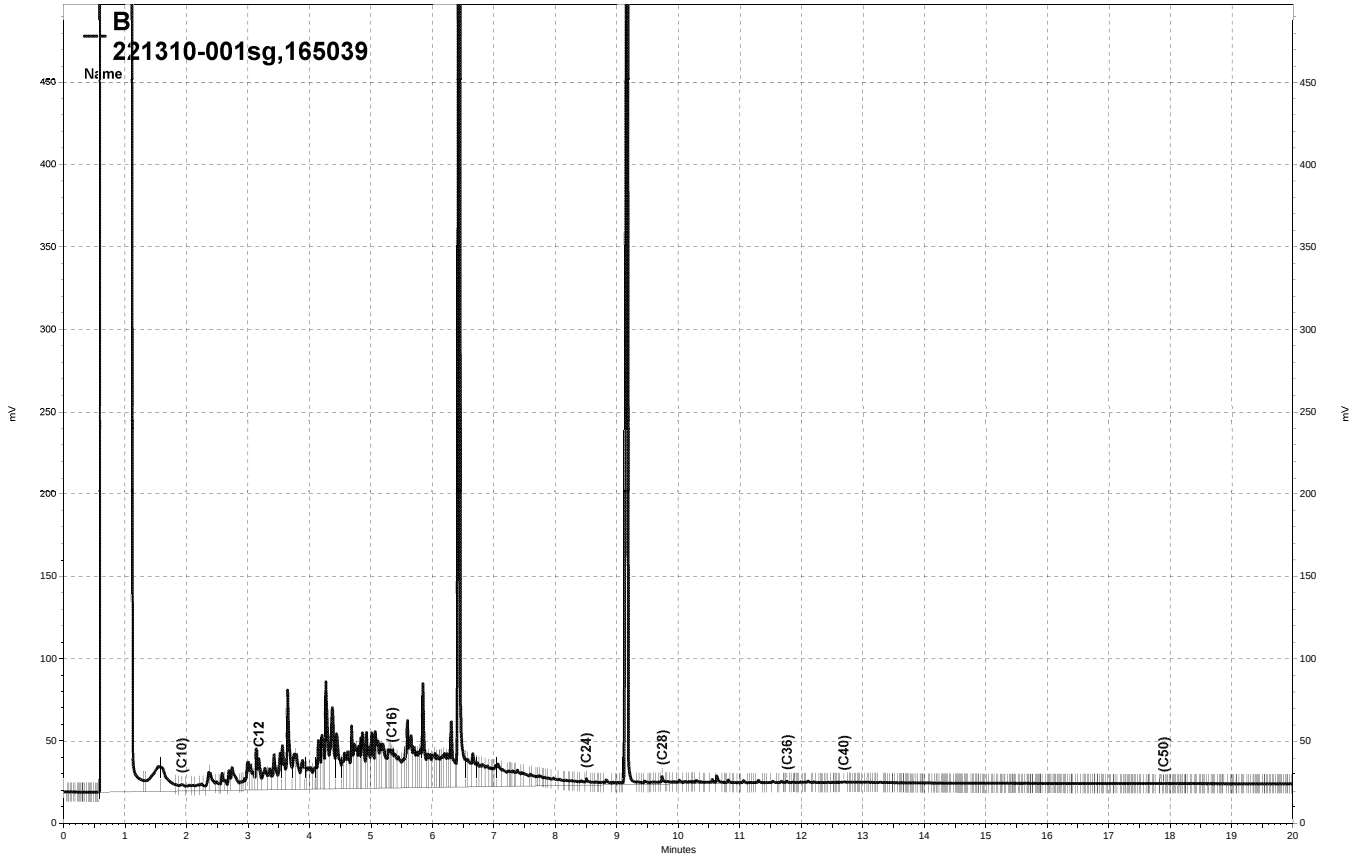
Surrogate	%REC	Limits
o-Terphenyl	98	60-129

Type: MSD Lab ID: QC552616

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,961	77	46-131	1	61

Surrogate	%REC	Limits
o-Terphenyl	103	60-129

RPD= Relative Percent Difference



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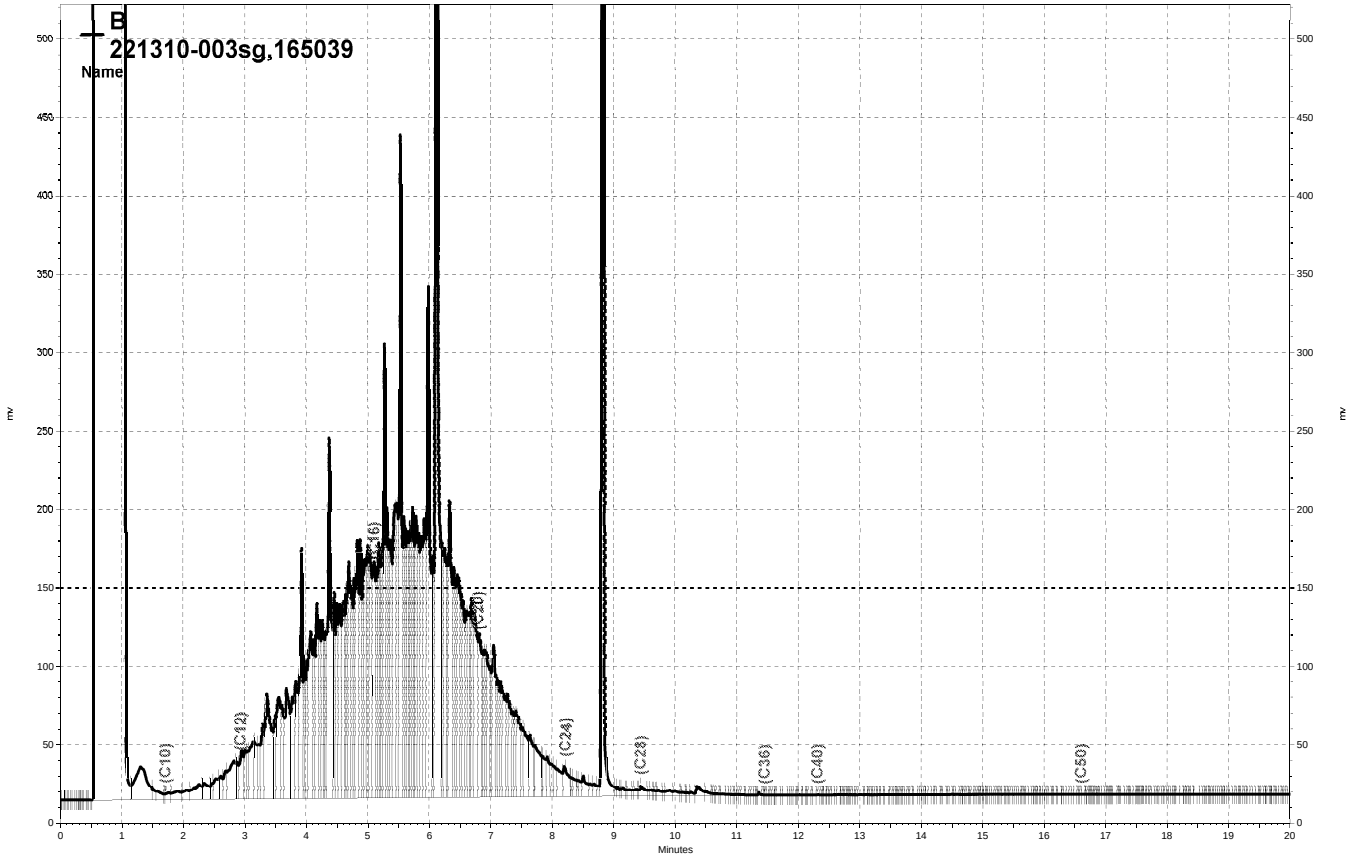

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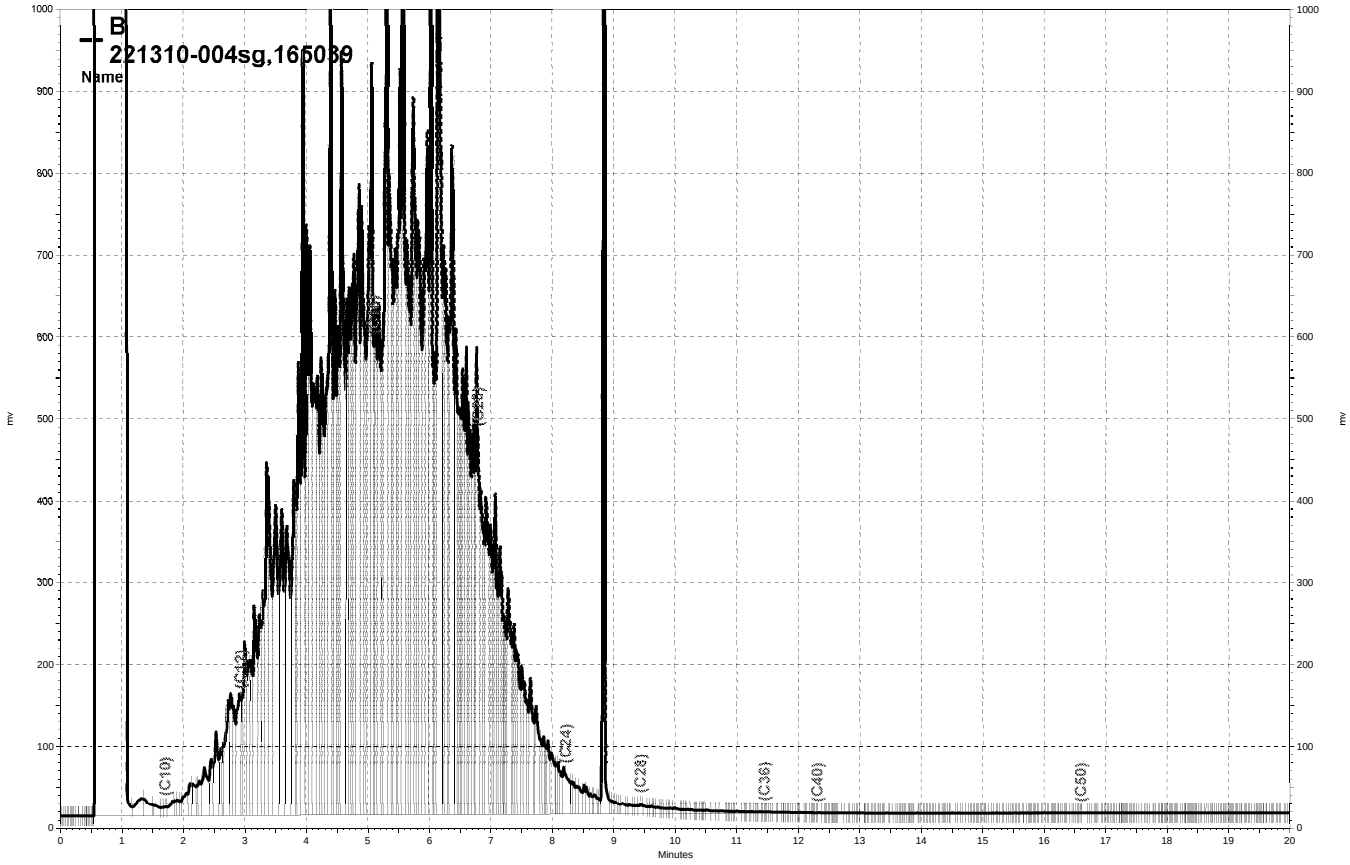

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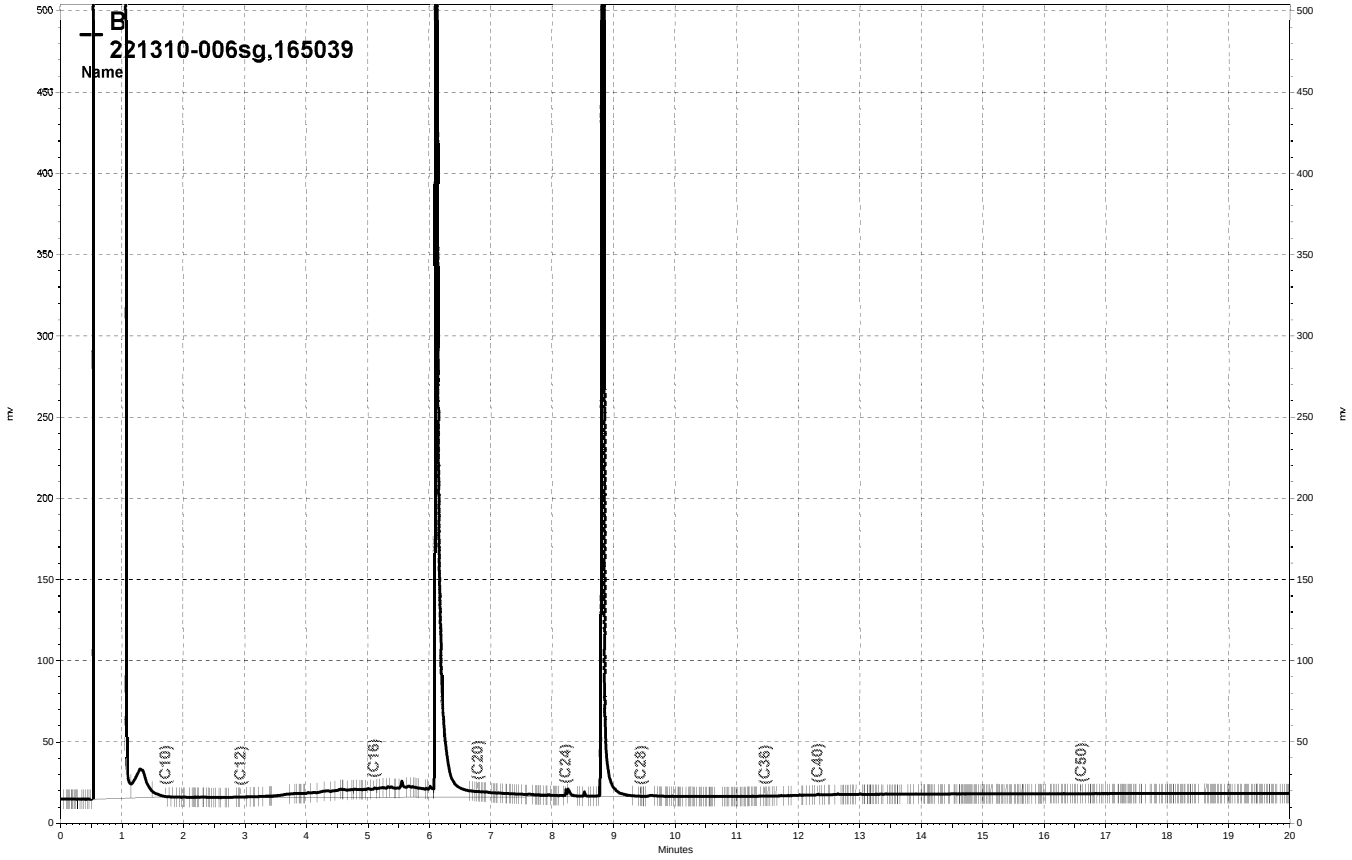

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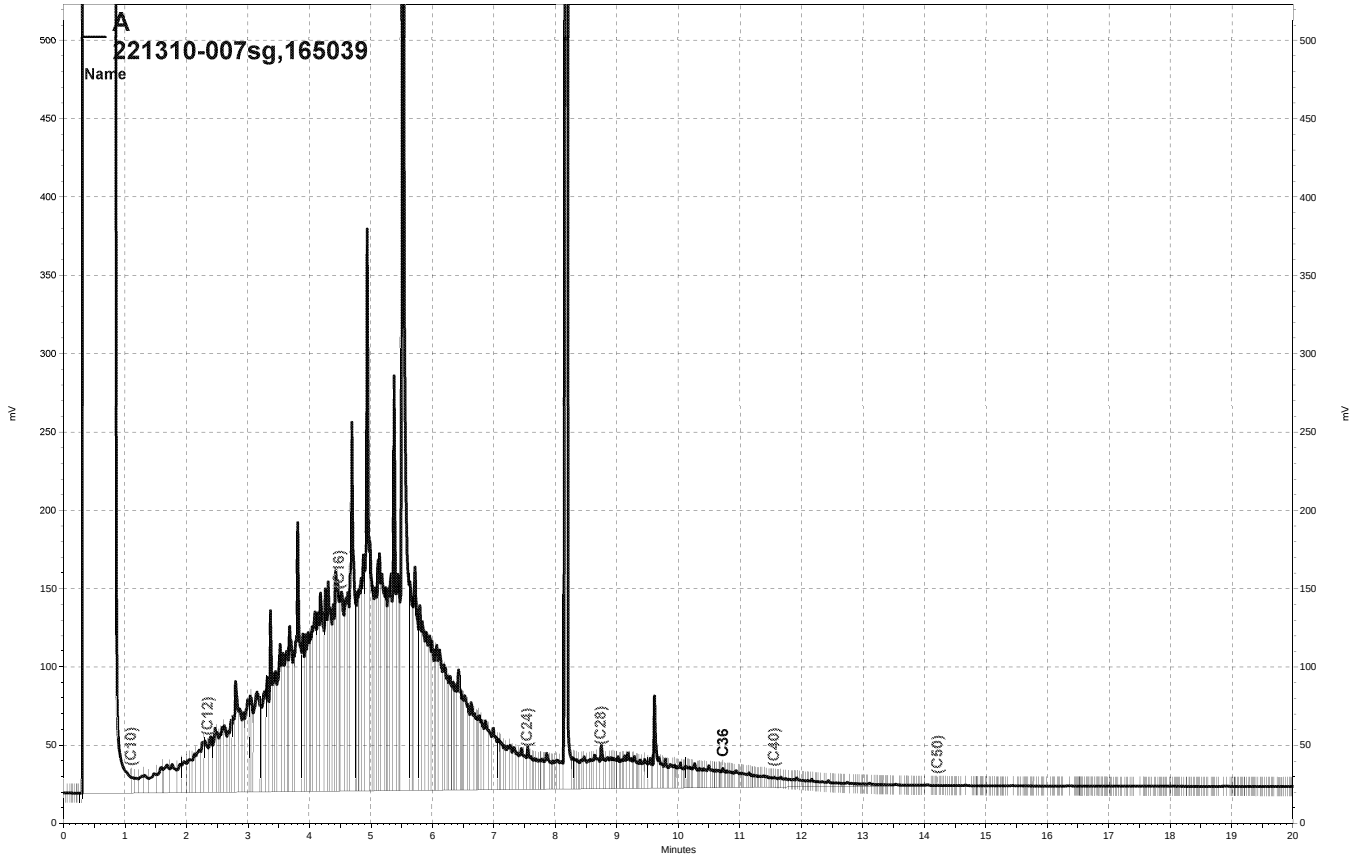

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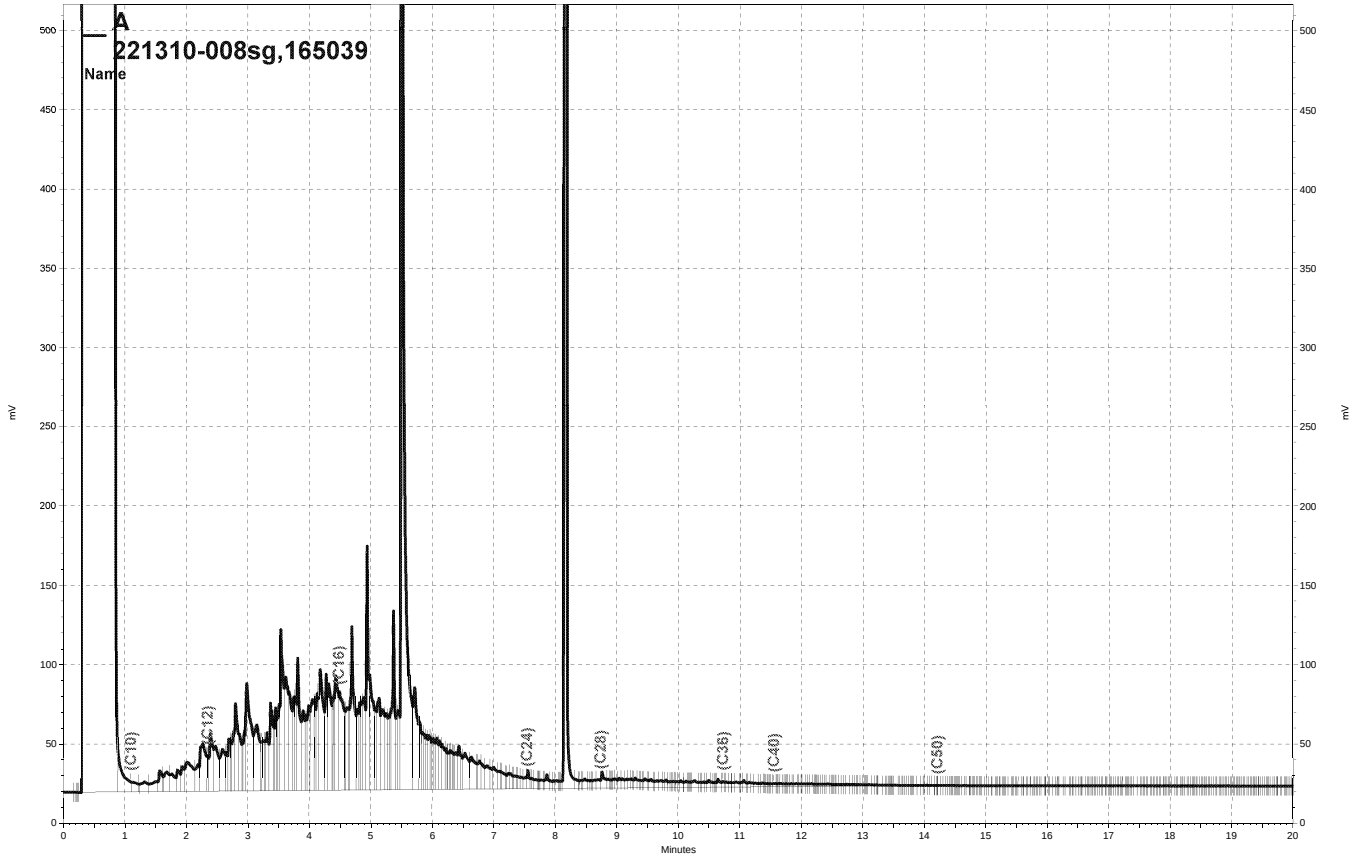

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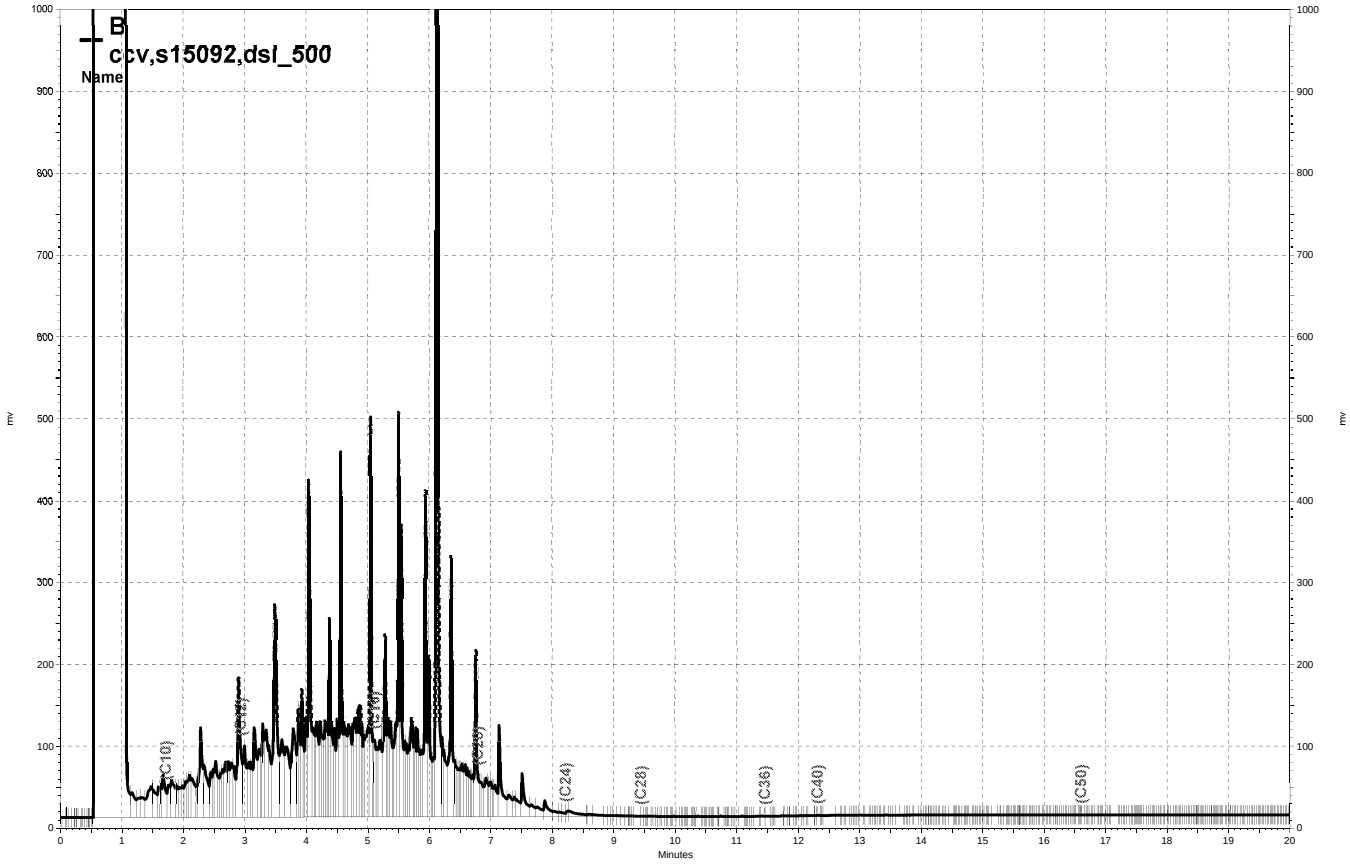

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-1R	Batch#:	165090
Lab ID:	221310-001	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	128	71-140
Toluene-d8	102	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	165090
Lab ID:	221310-002	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	1.5	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	125	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	165090
Lab ID:	221310-003	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	4.2	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	129	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	108	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-7R	Batch#:	165181
Lab ID:	221310-004	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/23/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	2.5	0.5
1,2-Dichloroethane	ND	0.5
Benzene	2.6	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	0.8	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	6.9	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	124	71-140
Toluene-d8	98	80-120
Bromofluorobenzene	109	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	165090
Lab ID:	221310-005	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	1.6	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	126	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	109	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-1	Batch#:	165090
Lab ID:	221310-006	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	4.3	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	125	71-140
Toluene-d8	102	80-120
Bromofluorobenzene	107	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-2	Batch#:	165090
Lab ID:	221310-007	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	5.7	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	126	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	DUPLICATE	Batch#:	165090
Lab ID:	221310-008	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	125	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	EQUIPMENT BLANK	Batch#:	165090
Lab ID:	221310-009	Sampled:	07/16/10
Matrix:	Water	Received:	07/16/10
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	125	71-140
Toluene-d8	102	80-120
Bromofluorobenzene	110	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	165090
Units:	ug/L	Analyzed:	07/21/10
Diln Fac:	1.000		

Type: BS Lab ID: QC552833

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	22.90	114	80-122
Toluene	20.00	21.37	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	119	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-121

Type: BSD Lab ID: QC552834

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	22.92	115	80-122	0	20
Toluene	20.00	21.96	110	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	116	71-140
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC552835	Batch#:	165090
Matrix:	Water	Analyzed:	07/21/10
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	122	71-140
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	165181
Units:	ug/L	Analyzed:	07/23/10
Diln Fac:	1.000		

Type: BS Lab ID: QC553188

Analyte	Spiked	Result	%REC	Limits
Benzene	25.00	26.27	105	80-122
Toluene	25.00	27.72	111	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	111	71-140
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-121

Type: BSD Lab ID: QC553189

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	25.00	26.77	107	80-122	2	20
Toluene	25.00	26.98	108	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	113	71-140
Toluene-d8	105	80-120
Bromofluorobenzene	98	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	221310	Location:	725 Julie Ann Way
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC553190	Batch#:	165181
Matrix:	Water	Analyzed:	07/23/10
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	116	71-140
Toluene-d8	102	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit