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8:41 am, Mar 26, 2010

Alameda County
Environmental Health

March 25, 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: Monitoring Well Installation and 2010 Semi-Annual Groundwater Monitoring 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 *Well Installation and 2010 Semi-Annual Groundwater Monitoring Report* for the Former Penske Truck Leasing Facility (site) located at 725 Julie Ann Way in Oakland, California. This report documents well destruction and installation activities conducted in accordance with Stantec's October 27, 2009, *Monitoring Well Installation Work Plan* and approved by the Alameda County Environmental Health Services (ACEHS) letter dated December 17, 2009 (Attachment 1). In addition, this report documents the procedures and results of the 2010 semi-annual monitoring and sampling event conducted in the First Quarter 2010 in accordance with the ACEHS letter dated July 28, 2009.

WELL ABANDONMENT AND INSTALLATION

Preliminary Activities

Stantec performed the following preliminary tasks:

- Site Health and Safety Plan (HASP): Stantec updated the site-specific HASP prior to conducting field activities. The HASP was reviewed by all field personnel and contractors before beginning field activities.

- Permitting: Stantec obtained an Alameda County Public Works Agency – Water Resources Well Permit for the abandonment of wells MW-1 and MW-7 and installation of replacement wells MW-1R and MW-7R. A copy of the permit is included as Attachment 2.

- Underground Utility Location and Clearance: Prior to field activities, Stantec marked the proposed monitoring well locations in accordance with Underground Service Alert (USA)

guidelines and notified USA of the work. Stantec contracted with a Cruz Brothers Locators, a private utility locator to confirm the locations of underground utilities in the work area.

Abandonment of Monitoring Wells MW-1 and MW-7

On January 11, 2010, monitoring wells MW-1 and MW-7 were abandoned by pressure grouting. The well casing was filled with neat cement grout and approximately 15 pounds per square inch (psi) of pressure was applied to the wellhead to force the grout through the well screen and into the surrounding sand pack. The flush-mounted well boxes were removed, and the locations were finished with concrete to match existing grade. Approximately 15 gallons of water was displaced by the grout during abandonment procedures and collected in a 55-gallon steel drum.

The completed California Department of Water Resources (DWR) forms for the abandonment of wells MW-1 and MW-7 are included in Attachment 3.

Installation and Sampling of Monitoring Wells MW-1R and MW-7R

On January 11 and 12, 2010, wells MW-1R and MW-7R were installed directly adjacent to former wells MW-1 and MW-7. Each borehole was advanced to 5 feet below ground surface (ft-bgs) using hand tools to confirm the absence of shallow subsurface utilities. Prior to well installation, soil borings were advanced to approximately 20 ft-bgs using a direct-push drilling system to log the subsurface lithology. Encountered soils were logged by a Stantec geologist in accordance with the Unified Soil Classification System (USCS), and lithologic classifications and field observations were recorded on soil boring logs (included as Attachment 4). Soils were periodically screened for volatile organic vapors using a photoionization detector (PID), and measurements were recorded on the soil boring logs. Volatile vapor concentrations ranged from 5 parts per million (ppm) to 67 ppm in the MW-1R borehole, and from 12 ppm to 89 ppm in the MW-7R borehole.

Based on field evidence of chemical impact, one soil sample at approximately 5 ft-bgs was collected from each borehole and submitted for chemical analysis. Each borehole was advanced to approximately 20.5 ft-bgs, the tool string was removed, and a temporary well casing was installed in the borehole. Groundwater levels in the boreholes were allowed to equilibrate overnight to provide for an accurate measurement of the static groundwater elevation. The static depth-to-groundwater was measured at 4.5 ft-bgs in the boring for MW-1R and at 5 ft-bgs in the boring for MW-7R. These measurements were used to determine the screened interval of the permanent well casing.

Once the static depth-to-groundwater was measured, the temporary well casing was removed and the borehole was then over-drilled using 8-inch-diameter hollow-stem auger. The wells were constructed of 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) casing with a 0.020-inch slotted screen interval from 3.5 ft-bgs to 20 ft-bgs. This construction, approximately 1.5 feet of unsaturated screen above the static groundwater level, allows for seasonal fluctuations in the groundwater elevation. The wellheads were finished with flush-mounted, traffic-rated vault boxes.

The DWR forms for the installation of wells MW-1R and MW-7R are included in Attachment 3.

Monitoring Well Development and Initial Sampling

MW-1R and MW-7R were developed by Stantec on January 19, 2010. Development consisted of alternately surging and bailing the well in an effort to stabilize the sand pack, remove fines from the sand pack and well casing, and establish hydraulic connectivity between the water-bearing formation and the

well. Approximately ten casing volumes were removed from each well during development. Well development field data sheets are included as Attachment 5.

The newly-installed monitoring wells were sampled immediately after development, but the samples were lost by the analytical laboratory. The wells were re-sampled during the semi-annual groundwater monitoring event.

SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING PROCEDURES

On February 8, 2010, wells MW-1R and MW-7R and five additional wells MW-2, MW-4, MW-8, OW-1, and OW-2 were sampled by Blaine Tech Services, Inc. (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 were obtained before and after purging each well. Measured parameters and purge volumes for each well were recorded in field data sheets and are included in Attachment 5.

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

Soil and 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); and,
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by US EPA Method 8260B.

Groundwater samples were additionally analyzed for:

- Ethylene dichloride (EDC) and ethylene dibromide (EDB) by US EPA Method 8260B.

WASTE MANAGEMENT AND DISPOSAL

Soil cuttings and purge/rinsate water generated during soil boring activities and groundwater sampling activities were stored in California DOT-approved 55-gallon steel drums and left onsite pending characterization and disposal.

WELL SURVEY

On February 19, 2010, new monitoring wells MW-1R and MW-7R were surveyed for elevation and location by a licensed professional land surveyor. The coordinates were uploaded to the state GeoTracker™ database.

QUARTERLY GROUNDWATER MONITORING

On February 8, 2010, a total of ten wells (replacement well MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, replacement well MW-7R, MW-8, OW-1, and OW-2) were gauged by Blaine Tech as part of the quarterly monitoring program using an electronic oil/water interface meter graduated to 0.01 foot. An oil/water interface meter 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. Well gauging data is included in Attachment 5.

RESULTS

Lithologic and Hydrogeologic Observations

Soils encountered during installation of wells MW-1R and MW-7R are primarily highly to moderately plastic clays, grading to clayey sand at approximately 16 ft-bgs, and to silty sand at approximately 17 ft-bgs. Both boreholes encountered gravelly sand between the ground surface and 2 to 7 ft-bgs. Saturated soils indicative of first-encountered groundwater were encountered in silty sand at approximately 17 ft-bgs in each borehole. After allowing the boreholes to remain open overnight, the depth-to-static groundwater was measured at approximately 5 ft-bgs.

Soil Sample Analytical Results

Chemical data from soil samples collected at 5 ft-bgs from borings MW-1R and MW-7R are presented in Table 1. TPHg was detected at 29 milligrams per kilogram (mg/kg) at boring MW-7R and was not detected above laboratory reporting limits in the sample from MW-1R. TPHd was detected at 31 mg/kg and 730 mg/kg in samples from MW-1R and MW-7R, respectively. BTEX and MTBE were not detected above laboratory reporting limits.

Groundwater Monitoring Results

Groundwater elevation data from the February 8, 2010, monitoring event are presented in Table 2 and a potentiometric surface map is illustrated in Figure 3. Depth-to-groundwater measurements ranged from 4.13 to 5.31 feet below the top of casing, corresponding to a range of groundwater elevations of 0.22 to 0.98 relative to the local City of Oakland datum. Groundwater flows toward the southwest, with a slight variance in the area of the underground storage tank (UST) excavations.

During development of well MW-1R in January 2010, a fuel product sheen was observed on the groundwater. No sheen or measurable fuel product was observed during the February 8, 2010, monitoring event.

Groundwater Sample Analytical Results

Field parameter data of pH and DO are presented in Table 3 and groundwater sample analytical results are presented in Table 4. Constituents detected in groundwater are illustrated in Figure 4. 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 reported in wells OW-1 and OW-2 have increased from the last 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 indicating a reducing environment.

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, ethyl benzene, 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 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.

Grab groundwater samples collected from SB-2 and SB-5 in April 2009 reported high concentrations of fuel hydrocarbons, likely indicative of free-phase product present either on the groundwater or within vadose-zone soils and introduced to groundwater by the direct-push sampling method. TPH concentrations reported in wells MW-1R and MW-7R are significantly lower than those reported in the April 2009 grab samples. Well samples are generally considered superior to grab samples due to better conductivity between the formation and the well casing, the ability to screen across the entire water-bearing zone and less disruption of the groundwater zone during sampling creating a more representative sample of groundwater moving through the formation. Therefore, Stantec considers samples from wells MW-1R and MW-7R to be representative of actual groundwater conditions. This hypothesis will be confirmed during future groundwater monitoring events.

RECOMMENDATIONS

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 MW-1R, we recommend three additional sampling events 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. In addition, the second semi-annual sampling event will be conducted during the third 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

Eva Hey
Senior Geologist

Angus E. McGrath, Ph.D.
Principal Geochemist

Neil Doran, P.G., #8503
Senior Geologist

List of Attachments:

Table 1 – Soil Sample Analytical Results
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 – Potentiometric Surface Map
Figure 4 – Constituents in Groundwater
Figure 5 – TPHd versus Time
Figure 6 – TPHg versus Time
Figure 7 – Benzene versus Time
Figure 8 – MTBE versus Time

Attachment 1 – ACEHS December 17, 2009 Letter
Attachment 2 – Alameda County Public Works Agency – Water Resources Well Permit
Attachment 3 – DWR Reports
Attachment 4 – Soil Boring Logs
Attachment 5 – Field Data Sheets
Attachment 6 – Laboratory Analytical Report

TABLES

Monitoring Well Installation and 2010 Semi-Annual Groundwater Monitoring Report
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, California
PN: 185702145.200.0004
March 25, 2010

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
FORMER PENSKE TURCK LEASIGN FACILITY
725 Julie Ann Way, Oakland, California

Sample ID	Depth (feet bgs)	Date	Method 8015B (mg/kg)		Method 8260B* (µg/kg)				
			TPH-g	TPH-d	Benzene	Ethyl benzene	Toluene	Xylenes	MTBE
MW-1R	5	1/11/2010	ND<0.96	**31** Y	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9
MW-7R	5	1/11/2010	**29** Y	**730**	ND<49	ND<49	ND<49	ND<49	ND<49

Notes:
Y - Sample exhibits chromatographic pattern which does not resemble standard
* - TPH-d analyzed by 8015B with silica gel cleanup
** Ethylene dichloride reported as 1,2-Dichloroethane
MTBE - methyl tertiary butyl ether
mg/kg - milligrams per kilogram
µg/kg - Micrograms per kilogram
Bold values indicate values that exceed the method reporting limit.
< - indicates sample detected at concentration less than the reporting limit indicated

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
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
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

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-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
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
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

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	4.84	5.70	-0.86
	05/28/97		5.46	-0.62
	09/19/97		5.91	-1.07
	11/17/97		5.59	-0.75
	02/27/98		4.68	0.16
	05/27/98		5.17	-0.33
	10/01/98		5.80	-0.96
	12/22/98		5.78	-0.94
	12/28/99		7.72	-2.34
	03/14/00		4.50	0.34
	06/28/00		5.51	-0.67
	09/14/00		5.93	-1.09
	12/11/00		5.72	-0.88
	03/14/01		4.58	0.26
	06/13/01		5.18	-0.34
	08/29/01		5.53	-0.69
	12/12/01		4.73	0.11
	04/11/02		4.68	0.16
	12/05/02		5.25	-0.41
	04/22/09		4.58	0.26
	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
MW-8	02/20/97	5.08	5.10	-0.02
	05/28/97		5.68	-0.60
	09/19/97		5.95	-0.87
	11/17/97		5.91	-0.83
	02/27/98		4.50	0.58
	05/27/98		6.10	-1.02
	10/01/98		6.13	-1.05
	12/22/98		6.10	-1.02
	12/28/99		6.30	-0.86
	03/14/00		5.01	0.07
	06/28/00		5.47	-0.39
	09/14/00		5.99	-0.91
	12/11/00		5.84	-0.76
	03/14/01		4.90	0.18
	06/13/01		5.40	-0.32
	08/29/01		5.80	-0.72
	12/12/01		5.05	0.03
	04/11/02		4.95	0.13
	12/05/02		5.42	-0.34
	04/22/09		4.94	0.14
	02/08/10		4.31	0.77
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

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-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

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
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
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
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

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-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
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
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

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-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
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

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	Ethyllene Dichlroride	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
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
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
	12/22/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/28/99	NS	NS	NS	NS	NS	NS	NS	NA	NA
	03/14/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/28/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	09/14/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/11/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/13/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	08/29/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/13/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	04/11/02	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/05/02	NS	NS	NS	NS	NS	NS	NS	NA	NA

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

Well		TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethyllene Dichlroride	Ethylene Dibromide
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
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
	12/05/02	NS	NS	NS	NS	NS	NS	NS	NA	NA
MW-6	02/20/97	NS	NS	NS	NS	NS	NS	NS	NA	NA
	05/28/97	NS	NS	NS	NS	NS	NS	NS	NA	NA
	09/19/97	NS	NS	NS	NS	NS	NS	NS	NA	NA
	11/17/97	NS	NS	NS	NS	NS	NS	NS	NA	NA
	02/27/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	05/27/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	10/01/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/22/98	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/28/99	NS	NS	NS	NS	NS	NS	NS	NA	NA
	03/15/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/28/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	09/14/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/11/00	NS	NS	NS	NS	NS	NS	NS	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	06/13/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	08/29/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/13/01	NS	NS	NS	NS	NS	NS	NS	NA	NA
	04/11/02	NS	NS	NS	NS	NS	NS	NS	NA	NA
	12/05/02	NS	NS	NS	NS	NS	NS	NS	NA	NA

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

Well		TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethyllene Dichlroride	Ethylene Dibromide
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
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
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

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

Well		TPHd	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Ethyllene Dichlroride	Ethylene Dibromide
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
TB	02/08/10	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

Notes:

mg/L - micrograms per liter
TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoli
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

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FIGURES

Monitoring Well Installation and 2010 Semi-Annual Groundwater Monitoring Report
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, California
PN: 185702145.200.0004
March 25, 2010

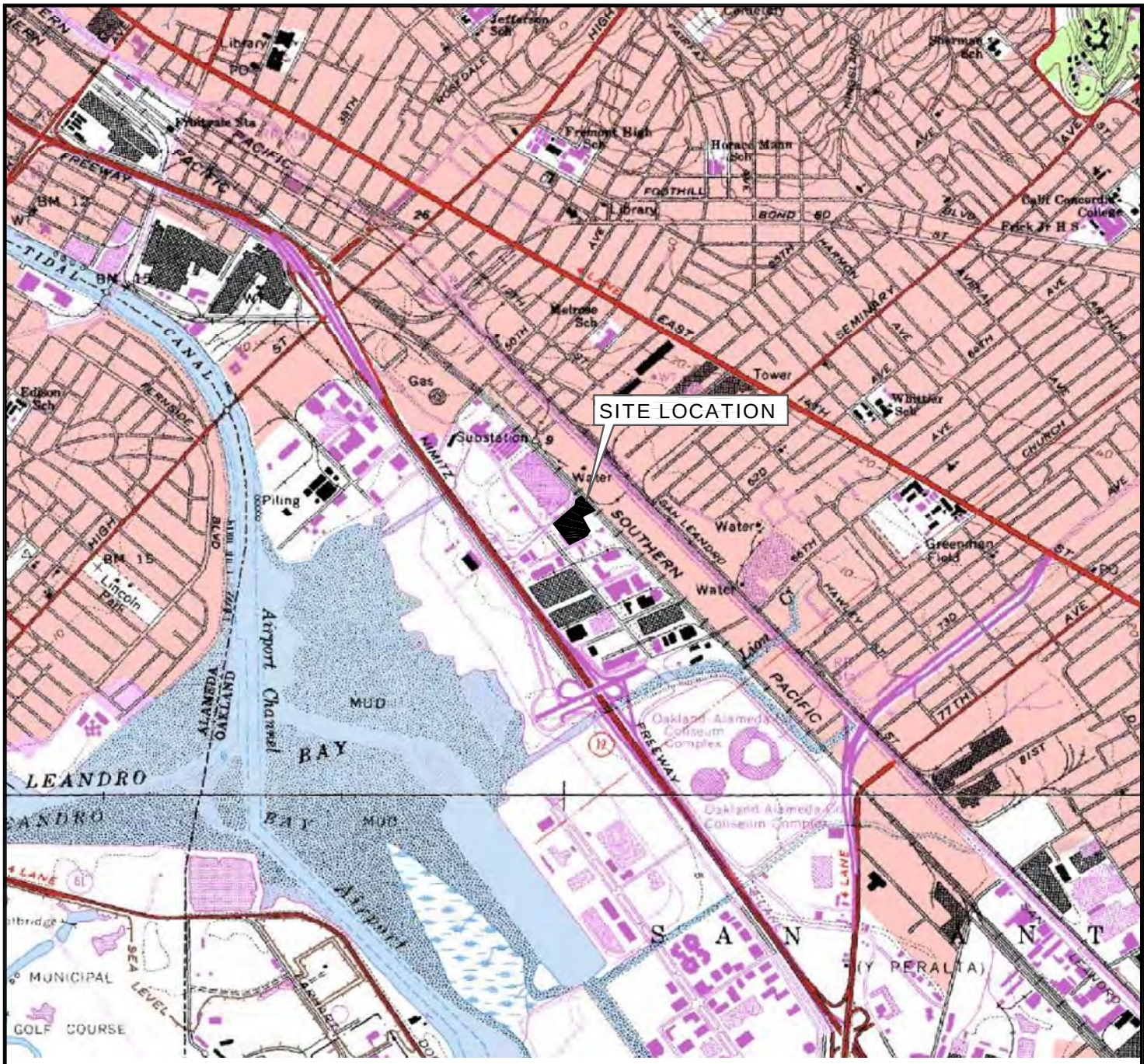
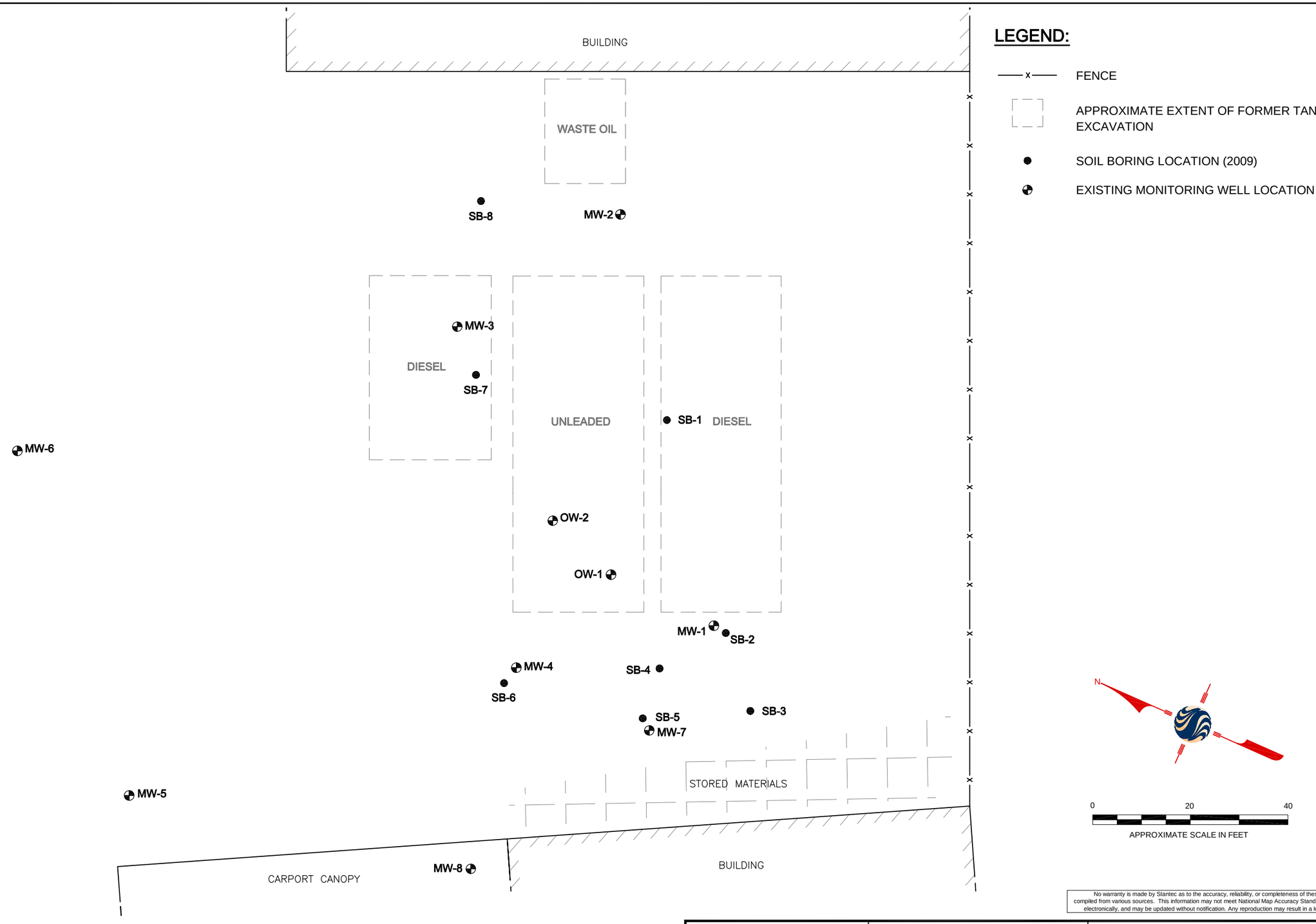


Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server

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:

- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- SOIL BORING LOCATION (2009)
- EXISTING MONITORING WELL LOCATION

N

0 20 40

APPROXIMATE SCALE IN FEET

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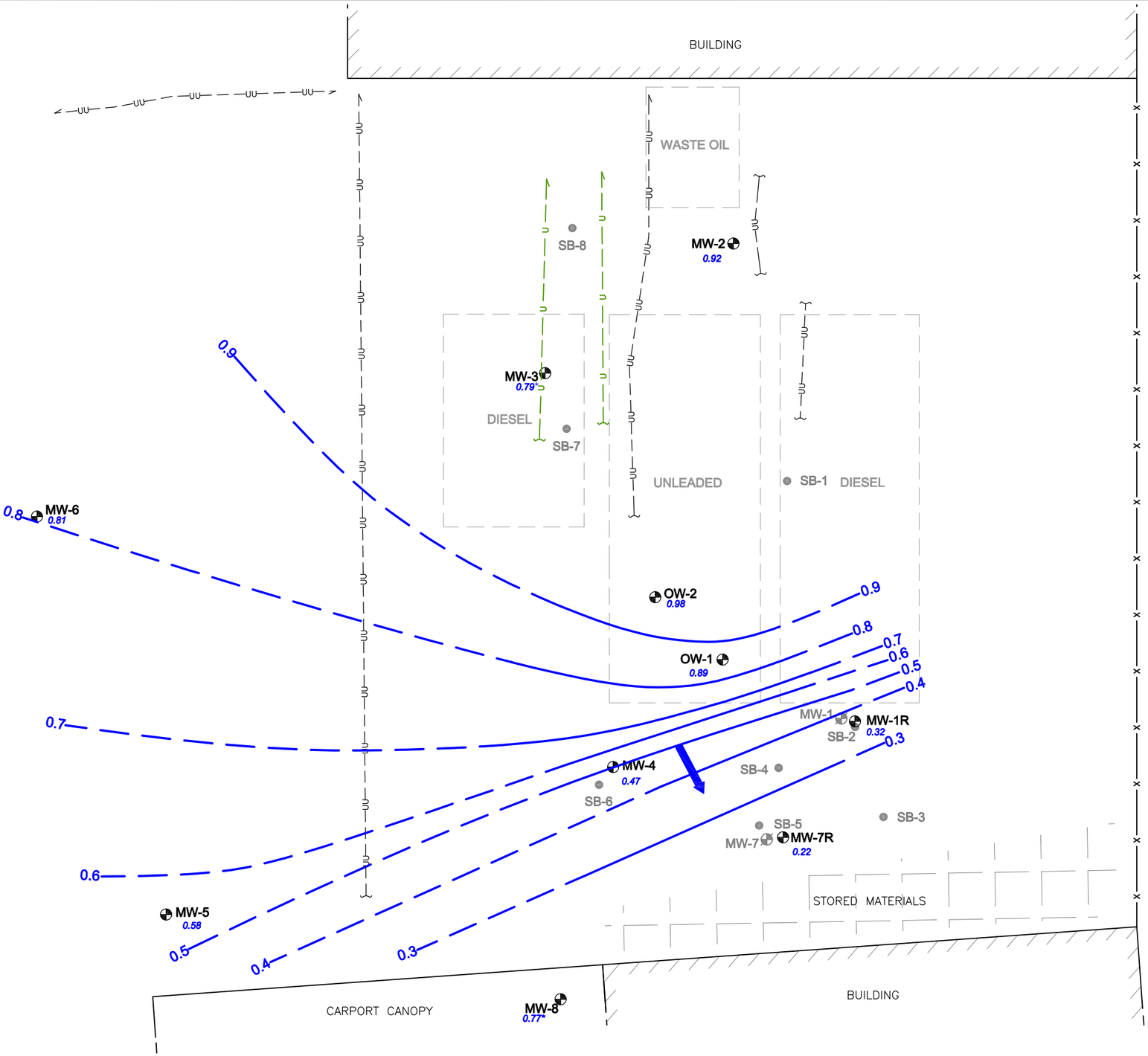
Lafayette, California, 94549
PHONE: (925) 299-9300 FAX: (925) 299-9302

PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

SITE PLAN

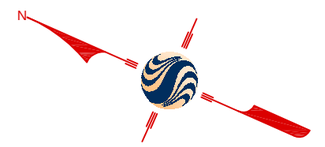
FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0001	JBL/RRR	EH	EH/GH/AM	10/16/09



LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- SOIL BORING LOCATION (2009)
- EXISTING MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- GROUNDWATER FLOW DIRECTION (APPROXIMATE)
- 0.92 GROUNDWATER ELEVATION (RELATIVE TO LOCAL DATUM)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) WELLS SOUNDED ON FEBRUARY 8, 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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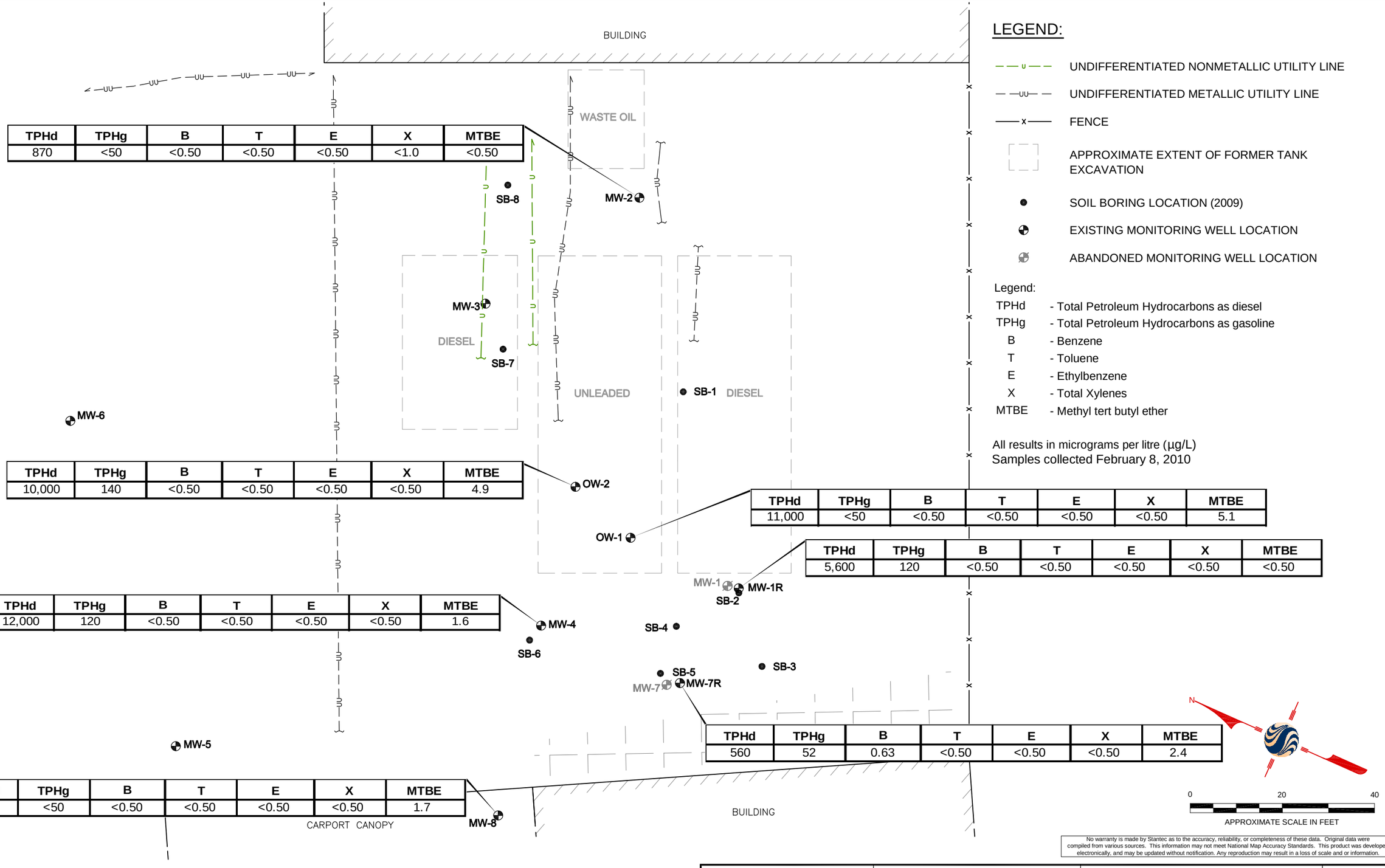
PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

POTENTIOMETRIC SURFACE MAP

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0004	JBL	KC	AEM	03/03/2010

FILEPATH:M:\00_OTHER OFFICES\005-San Francisco\Penske\Semi-Annual\2010\DWG\GW-MONITORING.dwg|liiebermanl|Mar 11, 2010 at 9:57|Layout: FIG-3



TPHd	TPHg	B	T	E	X	MTBE
870	<50	<0.50	<0.50	<0.50	<1.0	<0.50

TPHd	TPHg	B	T	E	X	MTBE
10,000	140	<0.50	<0.50	<0.50	<0.50	4.9

TPHd	TPHg	B	T	E	X	MTBE
11,000	<50	<0.50	<0.50	<0.50	<0.50	5.1

TPHd	TPHg	B	T	E	X	MTBE
5,600	120	<0.50	<0.50	<0.50	<0.50	<0.50

TPHd	TPHg	B	T	E	X	MTBE
12,000	120	<0.50	<0.50	<0.50	<0.50	1.6

TPHd	TPHg	B	T	E	X	MTBE
560	52	0.63	<0.50	<0.50	<0.50	2.4

TPHd	TPHg	B	T	E	X	MTBE
360	<50	<0.50	<0.50	<0.50	<0.50	1.7

LEGEND:

- UNDIFFERENTIATED NONMETALLIC UTILITY LINE
- UNDIFFERENTIATED METALLIC UTILITY LINE
- FENCE
- APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
- SOIL BORING LOCATION (2009)
- EXISTING MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION

Legend:

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

All results in micrograms per litre (µg/L)
Samples collected February 8, 2010

NOTE:

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

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PREPARED FOR:
PENSKE
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

CONSTITUENTS IN GROUNDWATER

FIGURE: 4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702145.200.0004	JBL	KC	AEM	03/03/2010

FIGURE 5
TPHd versus Time
725 Julie Ann Way, Oakland, CA

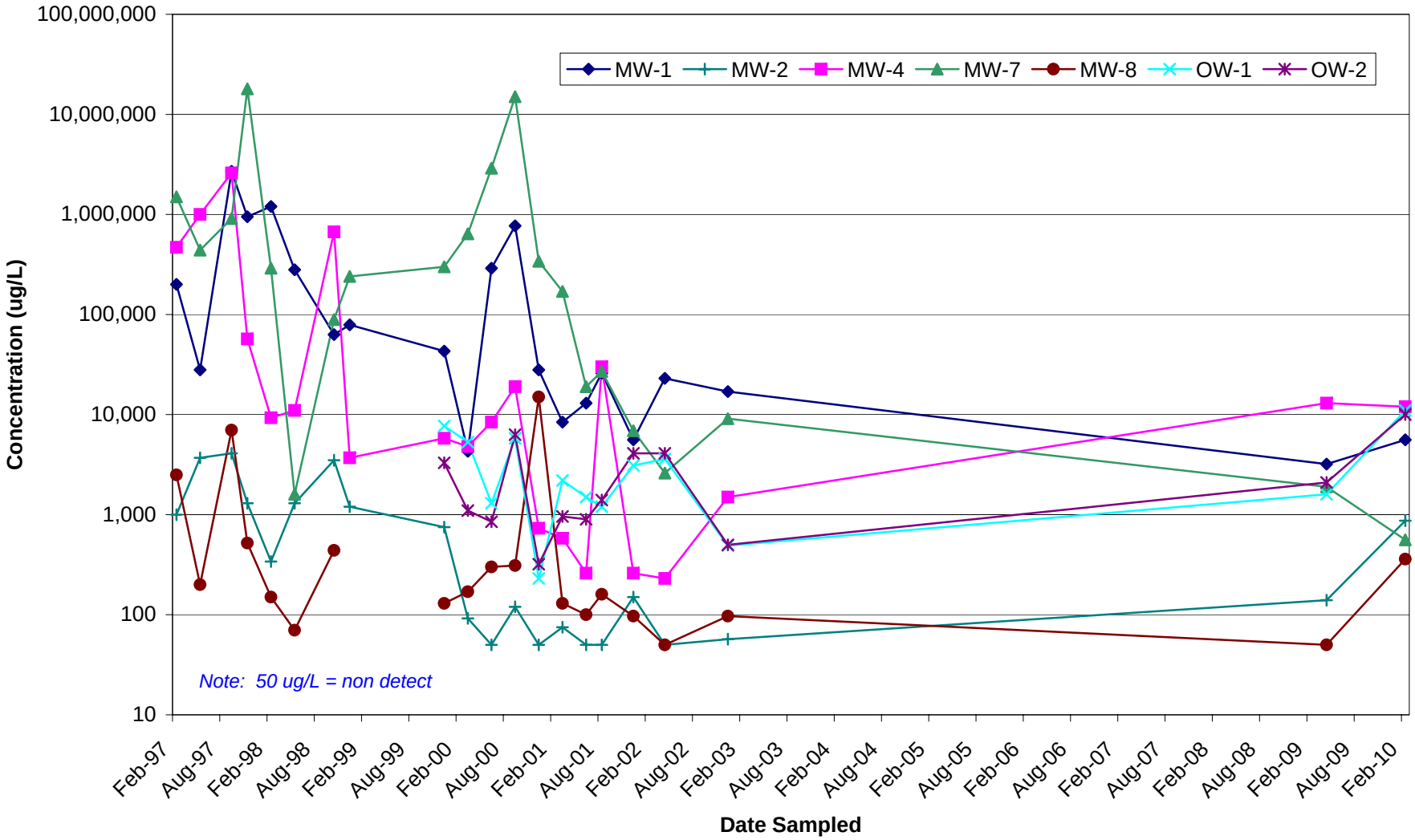


FIGURE 6
TPHg versus Time
725 Julie Ann Way, Oakland, CA

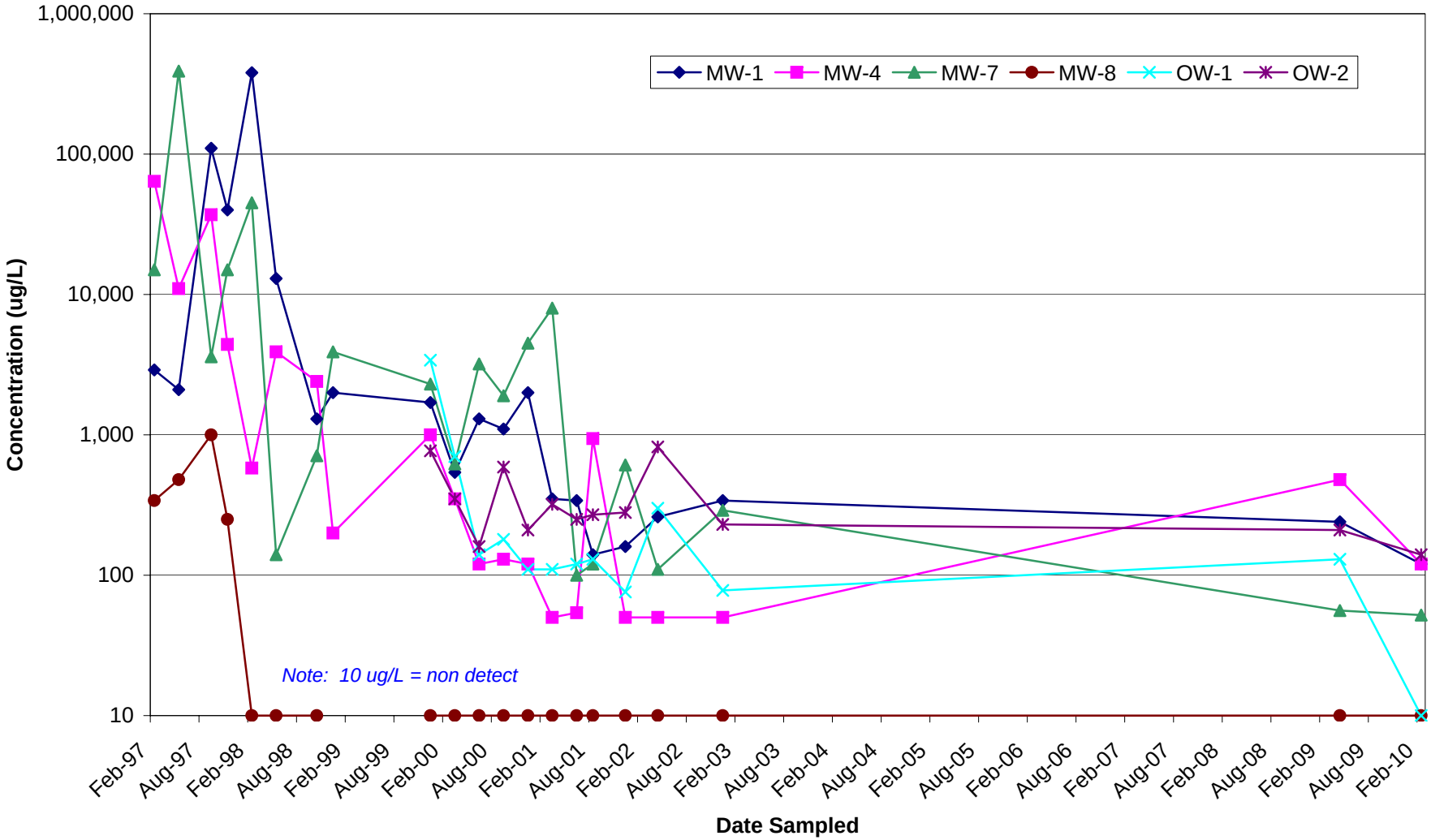


FIGURE 7
Benzene versus Time
725 Julie Ann Way, Oakland, CA

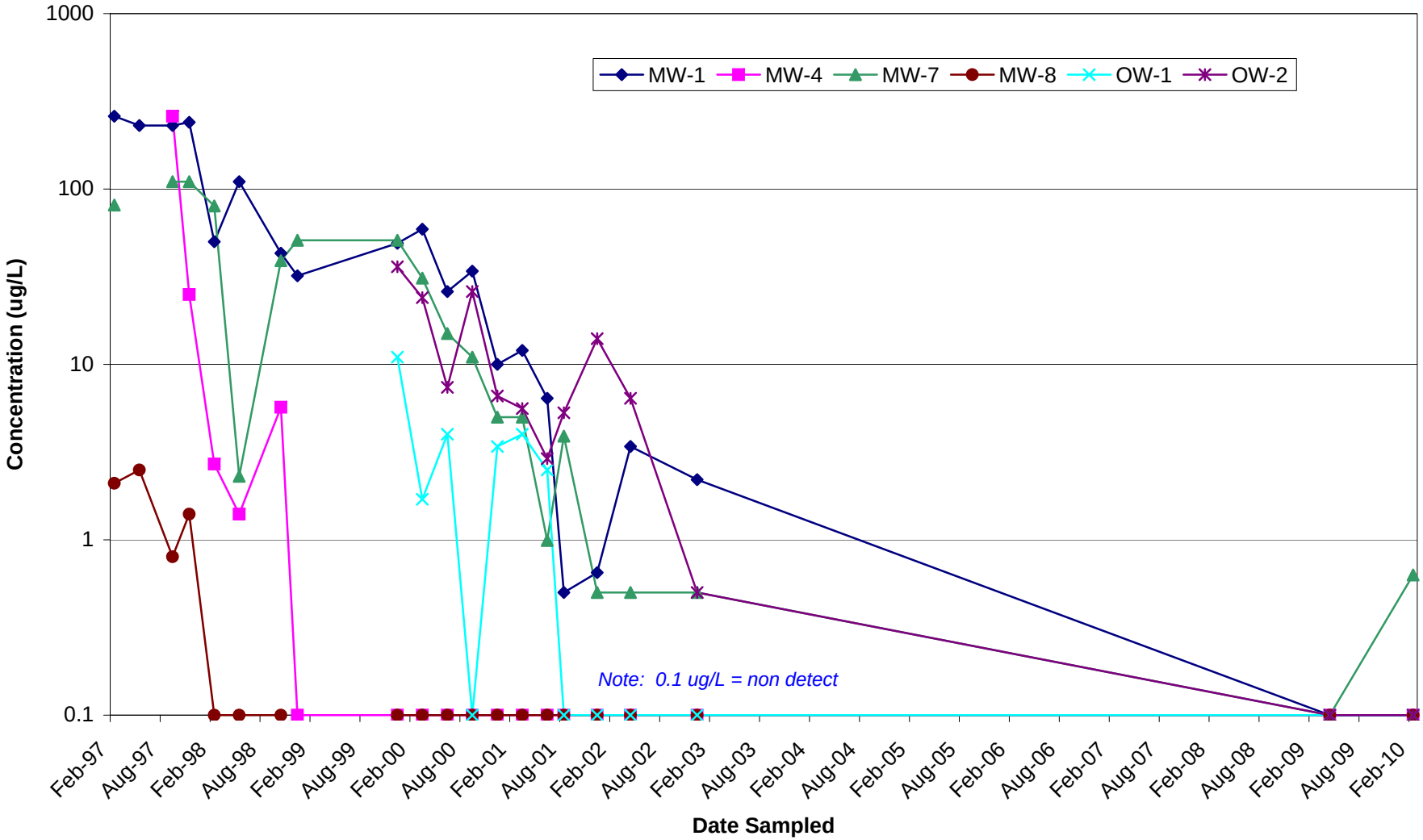
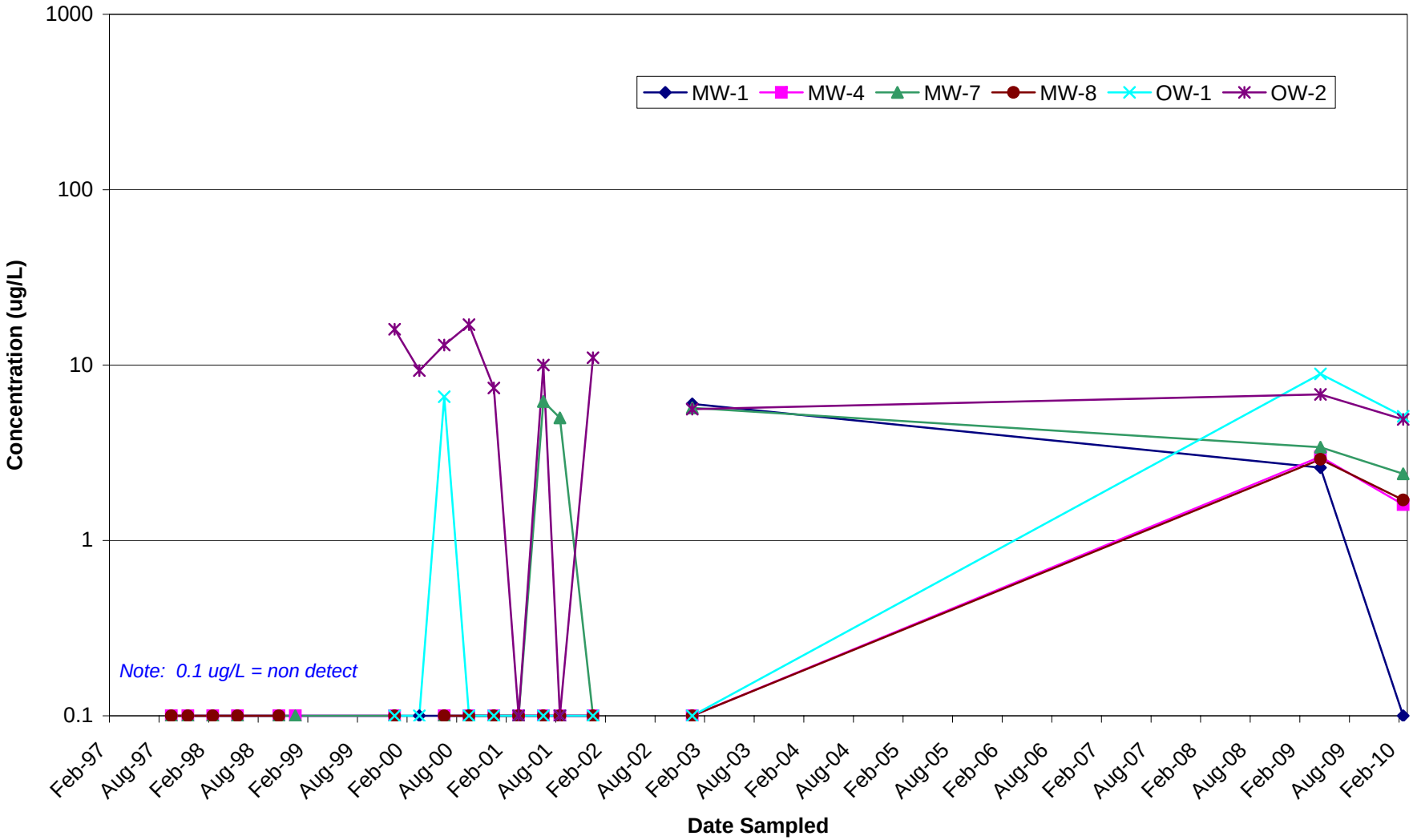


FIGURE 8
MTBE versus Time
725 Julie Ann Way, Oakland, CA



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ATTACHMENTS

Monitoring Well Installation and 2010 Semi-Annual Groundwater Monitoring Report
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, California
PN: 185702145.200.0004
March 25, 2010

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

December 17, 2009

Andrew Cullen (*Sent via E-mail to: andrew.cullen@penske.com*)
Penske Truck Leasing Company
Route 10 Green Hills Road
P.O. Box 7635
Reading, PA 19603-7635

Subject: Fuel Leak Case No. RO0000354 and GeoTracker Global ID T0600101062, Hertz Penske, 725 Julie Ann Way, Oakland, CA 94621

Dear Mr. Cullen:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted documents entitled, "Soil and Groundwater Investigation and Groundwater Monitoring Report," dated September 1, 2009 and the "Monitoring Well Installation Work Plan," dated October 27, 2009, which were both prepared by Stantec Consulting Corporation for the subject site. The report summarizes the subsurface investigation conducted to assess the effectiveness of the Fenton's reagent injection remedial action as well as evaluate the existing groundwater monitoring well construction to ensure that that groundwater samples collected from the wells are representative of actual contaminant concentrations.

Stantec concluded that although successful, the Fenton's reagent was "likely limited by the predominance of fine-grained soils beneath the Site," and recommended replacing monitoring wells MW-1 and MW-7 due to their inability to monitor free product.

ACEH does not agree that the Fenton's reagent was as successful as Stantec stated since elevated concentrations of TPH-g, TPH-d, benzene, and naphthalene are present in soil and groundwater samples collected from several borings installed down-gradient of the USTs at the site. However, ACEH does generally concur with the proposed decommissioning and re-installing of monitoring wells MW-1 and MW-7 and that the proposed scope of work may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed.

TECHNICAL COMMENTS

1. **Monitoring Well Construction** – In the work plan, Stantec proposes that "[f]ollowing advancement of the borehole at least 10 feet into first-encountered groundwater, the tool string will be removed and static groundwater will be allowed to equilibrate in the borehole for approximately one hour. This will allow for an accurate determination of the static depth-to-groundwater prior to installing the well casing, in order to confirm that the well screen intercepts the groundwater surface." In the above-mentioned report, Stantec states that static

depth to groundwater in borings installed at the site is approximately 9 to 10.5 feet bgs. However, static depths to groundwater in site groundwater monitoring wells are shallower at approximately 5 feet bgs. According to the several boring logs included in the above-mentioned report, soils were logged as "wet" at approximately 5 feet bgs (SB-1, SB-3, SB-4, SB-6, and SB-7), but static groundwater was reported deeper at approximately 9 to 10.5 feet bgs. Perhaps the borings were not left open long enough for groundwater to equilibrate since it appears that the borings were grouted the day they were installed. In fine-grained soils, it is not uncommon to leave the borings open overnight for groundwater to stabilize. Therefore, please allow sufficient time for groundwater to stabilize prior to installing the monitoring wells. Should groundwater elevation for the newly installed wells rise above the screened interval, re-installation of monitoring points may be required.

2. **Feasibility Study/Corrective Action Plan** – As mentioned above, elevated concentrations of petroleum hydrocarbons still remain in soil and groundwater. Confirmation soil sample analytical results detected TPH-g, TPH-d, benzene, and naphthalene at elevated concentrations of 320 mg/kg, 12,000 mg/kg, 4.8 mg/kg, and 0.610 mg/kg, respectively. Confirmation "grab" groundwater samples detected TPH-g, TPH-d, benzene, and naphthalene at elevated concentrations of 300,000 µg/L, 4,000,000 µg/L, 12,000 µg/L, and 950 µg/L, respectively. Analytical results appear to indicate that the site poses a potential risk to human health and the environment. To that end, once monitoring wells MW-1 and MW-7 are decommissioned and re-installed, a Feasibility Study/Corrective Action Plan (FS/CAP) prepared in accordance with Title 23, California Code of Regulations, Section 2725 appears appropriate. The FS/CAP must include a concise background of soil and groundwater investigations performed in connection with this case and an assessment of the residual impacts of the chemicals of concern (COCs) for the site and the surrounding area where the unauthorized release has migrated or may migrate. The FS/CAP should also include, but not limited to, a detailed description of site lithology, including soil permeability, and most importantly, contamination cleanup levels and cleanup goals, in accordance with the San Francisco Regional Water Quality Control Board (SFRWQCB) Basin Plan for all COCs and for the appropriate groundwater designation. Please note that soil cleanup levels should ultimately (within a reasonable timeframe) achieve water quality objectives (cleanup goals) for groundwater in accordance with the SFRWQCB Basin Plan. Please specify appropriate cleanup levels and cleanup goals in accordance with 23 CCR Section 2725, 2726, and 2727 in the FS/CAP.

   At least three viable alternatives for remedying or mitigating the actual or potential adverse effects of the unauthorized release(s) besides the "no action" and "monitored natural attenuation" remedial alternatives must be evaluated in the FS/CAP. Each alternative shall be evaluated not only for cost-effectiveness but also its timeframe to reach cleanup levels and cleanup goals, and ultimately the Responsible Party must propose the most cost-effective corrective action.

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **March 17, 2010** – Soil and Water Investigation Report
- **Due within 30 Days of Sampling** – Semi-annual Monitoring Report (1st Quarter 2010)
- **April 16, 2010** – Feasibility Study/Corrective Action Plan
- **Due within 30 Days of Sampling** – Quarterly Monitoring Report (3rd Quarter 2010)
- **Due within 30 Days of Sampling** – Quarterly Monitoring Report (4th Quarter 2010)

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Paresh C. Khatri
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Eva Hey, Stantec Consulting Corporation, 57 Lafayette Circle, 2nd Floor, Lafayette, CA 94549 (*Sent via E-mail to: Eva.Hey@stantec.com*)
Angus E. McGrath, Stantec Consulting Corporation, 57 Lafayette Circle, 2nd Floor, Lafayette, CA 94549 (*Sent via E-mail to: Angus.McGrath@stantec.com*)
Neil Doran, Stantec Consulting Corporation, 57 Lafayette Circle, 2nd Floor, Lafayette, CA 94549 (*Sent via E-mail to: Neil.Doran@stantec.com*)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Paresh Khatri, ACEH (*Sent via E-mail to: paresh.khatri@acgov.org*)
GeoTracker
File

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

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

REQUIREMENTS

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

Additional Recommendations

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

Submission Instructions

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

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

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

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

PROJECT: **Penske**
LOCATION: **725 Julie Ann Way, Oakland CA**
PROJECT NUMBER: **185702145**

WELL / PROBEHOLE / BOREHOLE NO: **MW-1R** PAGE 1 OF 1

Stantec

DRILLING: STARTED **1/11/10** COMPLETED: **1/12/10**
INSTALLATION: STARTED **1/11/10** COMPLETED: **1/12/10**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **(LAR) Limited Access Rig**
DRILLING METHOD: **Auger**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **17** **1/11/10**
STATIC DTW (ft): **4.55** **1/12/10**
WELL CASING DIAMETER (in): **---**
LOGGED BY: **CM**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **20.5**
WELL DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **8**
CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Cr+6 Screen Time Sample ID	Measured Recov. (ft)	Blow Count	Headspace PID (ppmv)	Depth (feet)
		SW	**GRAVELLY SAND** ; SW; 5Y4/4 olive; fine to coarse-grained; loose; dry; well graded; Fill; 30% gravel						
		CL	**LEAN CLAY WITH GRAVEL** ; CL; 10YR3/1 very dark gray; medium plasticity; stiff; dry; 10% gravel; glass at 4.5 ft.; fill		--			0.0	
1210 5		SW	**GRAVELLY SAND** ; SW; 5Y6/3 pale olive; fine to coarse-grained; loose; dry; moderate petroleum odor; subrounded; well graded; 30% gravel		1210 MW-1R, 5'			5	5
			Very hard; Concrete; possible burried slab		--			34	
1215		CH	**FAT CLAY** ; CH; 10Y4/1 dark greenish gray; high plasticity; very stiff; moist; moderate petroleum odor; Water filled rootholes; staining along rootholes						
10					--			67	10
1220		CL	**SILTY LEAN CLAY** ; CL; 5Y4/3 olive; medium plasticity; hard; dry; moderate petroleum odor; 30% silt		--			12	
					--			45	
15									15
1225		SC	**CLAYEY SAND** ; SC; 5Y4/3 olive; fine-grained; medium dense; moist; moderate petroleum odor; 40% clay						
		SM	**SILTY SAND** ; SM; 5Y4/4 olive; fine-grained; medium dense; wet; moderate petroleum odor; 40% silt		--			67	
1230									
20			Boring terminated at 20.5 feet.						20

Borehole Backfill

- 12" traffic rated well box
- neat cement grout
- bentonite chips
- schedule 40 PVC
- #3 sand
- 0.02" slot well screen
- 2" slip cap with stainless steele screws

GEO FORM 304 PENSKE LOGS.GPJ SECOR INTL.GDT 3/2/10

PROJECT: **Penske**
LOCATION: **725 Julie Ann Way, Oakland CA**
PROJECT NUMBER: **185702145**

WELL / PROBEHOLE / BOREHOLE NO: **MW-7R** PAGE 1 OF 1

Stantec

DRILLING: STARTED **1/11/10** COMPLETED: **1/12/10**
INSTALLATION: STARTED **1/11/10** COMPLETED: **1/12/10**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **(LAR) Limited Access Rig**
DRILLING METHOD: **Auger**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **17** **1/11/10**
STATIC DTW (ft): **5.1** **1/12/10**
WELL CASING DIAMETER (in): **---**
LOGGED BY: **CM**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **20.5**
WELL DEPTH (ft): **20.0**
BOREHOLE DIAMETER (in): **8**
CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Cr+6 Screen Time Sample ID	Measured Recov. (ft)	Blow Count	Headspace PID (ppmv)	Depth (feet)	Borehole Backfill
		SW	**GRAVELLY SAND** ; SW; 5Y4/4 olive; fine to coarse-grained; loose; dry; well graded; Fill; 30% gravel							12" traffic rated well box
		OH	**FAT CLAY** ; OH; N2.5/0 black; high plasticity; stiff; dry; slight petroleum odor; organic rich clay		--			12		neat cement grout
			Brick							bentonite chips
1110 5					1110 MW-7R, 5'			74	5	schedule 40 PVC
			Same as above; moist; strong petroleum odor		--			85		
1115		CH	**FAT CLAY** ; CH; 10Y4/1 dark greenish gray; high plasticity; very stiff; moist; strong petroleum odor		--			81		#3 sand
					--			74		
10					--			49	10	
1120		CL	**SILTY LEAN CLAY** ; CL; 10Y4/1 dark greenish gray; medium plasticity; hard; dry; moderate petroleum odor; 10% sand; 20% silt		--			27		0.02" slot well screen
					--			89		
15					--			0	15	
1125		SC	**CLAYEY SAND** ; SC; 10YR5/6 yellowish brown; fine-grained; dense; moist; 40% clay							
		SM	**SILTY SAND WITH GRAVEL** ; SM; 10YR4/6 dark yellowish brown; fine to medium-grained; dense; wet; subangular; 10% gravel; 30% silt		--			0		
					--			0		
20			Boring terminated at 20.5 feet.						20	2" slip cap with stainless steele screws

GEO FORM 304 PENSKE LOGS.GPJ SECOR INTL.GDT 3/2/10

Stantec

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185702145 PURGED BY: C. Melancon WELL I.D.: MW-1R

CLIENT NAME: Penske SAMPLED BY: C. Melancon SAMPLE I.D.: —

LOCATION: 725 Julie Ann Way, Oakland CA QA SAMPLES: —

DATE PURGED 1-19-10 START (2400hr) 1240 END (2400hr) 1355

DATE SAMPLED NA SAMPLE TIME (2400hr) NA

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.17) 3" ____ (0.38) 4" ____ (0.67) 5" ____ (1.02) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 17.5 (initial) / 19.8 (final) CASING VOLUME (gal) = 2.62

DEPTH TO WATER (feet) = 4.41 CALCULATED PURGE (gal) = 26.16

WATER COLUMN HEIGHT (feet) = 15.39 ACTUAL PURGE (gal) = 27.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
1-19	1240	2	18.4	3,620	7.72	Dk. grey	V. High
	1250	5	18.0	3,390	8.12	"	"
	1300	8	17.7	3,010	8.21	"	"
	1310	11	17.5	2,730	8.08	"	"
	1320	13	17.5	2,800	7.87	"	"
	1330	15	17.5	2,840	7.67	gray	High
	1340	18	17.5	2,810	7.57	"	"
	1350	22	17.5	2,870	7.56	"	"
	1355	27	17.6	2,890	7.55	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: NA

80% RECHARGE: ____ YES ____ NO ANALYSES: NA

ODOR: Mod SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
____ Submersible Pump
____ Peristaltic Pump
X Bailer (Disposable)
____ Bailer (PVC)
____ Bailer (Stainless Steel)
____ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (____ PVC or ____ disposable)
____ Bailer (Stainless Steel)
____ Dedicated ____

Other: ____

WELL INTEGRITY: good LOCK#: ____

REMARKS: Sheen on Water; Surged & bailed first 15 gal.

Post Purge D.O. = ____

Post Purge ORP = ____ Post Purge Fe(II) = ____

SIGNATURE: [signature] Page ____ of ____

Stantec

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185702145 PURGED BY: C. Melancon WELL I.D.: MW-7R

CLIENT NAME: Peuske SAMPLED BY: C. Melancon SAMPLE I.D.: —

LOCATION: 725 Julie Ann Way, Oakland CA QA SAMPLES: —

DATE PURGED 1-19-10 START (2400hr) 1140 END (2400hr) 1230

DATE SAMPLED NA SAMPLE TIME (2400hr) NA

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 19.2 (Initial) / 19.5 (Final) CASING VOLUME (gal) = 2.53

DEPTH TO WATER (feet) = 4.64 CALCULATED PURGE (gal) = 25.26

WATER COLUMN HEIGHT (feet) = 14.86 ACTUAL PURGE (gal) = 26.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
1-19	1140	2	17.6	4,880	7.52	Brn	V. High
	1150	5	17.7	4,990	7.46	"	"
	1200	8	17.9	4,370	7.39	"	"
	1210	13	18.5	3,890	7.36	"	High
	1215	14	18.5	3,730	7.30	"	"
	1220	18	18.5	3,490	7.31	"	"
	1225	22	18.5	3,460	7.28	Lt. Brn	"
↓	1230	26	18.6	3,360	7.30	"	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: NA SAMPLE TURBIDITY: NA

80% RECHARGE: ___ YES ___ NO ANALYSES: NA

ODOR: ____ SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
X Bailer (Disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (___ PVC or ___ disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

WELL INTEGRITY: good LOCK#: ____

REMARKS: Purged & bailed first 13 gal.

Post Purge D.O. = ____

Post Purge ORP = ____ Post Purge Fe(II) = ____

SIGNATURE: [signature] Page ___ of ___

Z:\forms\Water Sample Field Data Sheet.xls

TABLE 1

Depth to Groundwater Level Measurement

Former Penske Faciilty, 725 Julie Ann Way, Oakland, CA

185702145.200.0002

DATE 2/8/10

Well	Time	Depth to Water (ft)	Comment (Product Thickness)
MW-1a	0850	4.41	—
MW-2	0845	5.28	—
MW-3	0843	5.31	—
MW-4	0835	4.71	—
MW-5	0831	4.13	—
MW-6	0828	4.56	—
MW-7a	0837	4.28	—
MW-8	0833	4.31	—
OW-1	0821	4.20	—
OW-2	0841	4.41	—

10

WELLHEAD INSPECTION CHECKLIST

Date 2/8/10 Client Stantec

Site Address 725 Julie Ann Way Oakland

Job Number 100208-RM1 Technician R.M.

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	X							
MW-2		Not Securable						
MW-3		No bolts						
MW-4		2/2 bolts missing						
MW-5		No bolts						
MW-6		2/2 bolts missing						
MW-7	X							
MW-8		2/2 bolts stripped						
OW-1		1/2 bolts missing						
OW-2	X							

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Stantec 725 Julie Ann Way				PROJECT NUMBER 100208-RM1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myron L Ultrameter	0178I3	2/8/10 800	pH 7.0, 10.0, 4.0 cond 3900	pH 7.0, 10.0, 4.0 cond 39.00	yes	55,9	BP
Hach 2100P turbidimeter	09080C037089	2/8/10 815	55 NTU 515 NTU	~~55~~ NTU 510 NTU	yes	—	BP

WELL MONITORING DATA SHEET

Project #: 100208-RM1	Client: STANTEC
Sampler: RM/BP	Date: 2/8/10
Well I.D.: MW-1a	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.59	Depth to Water (DTW): 4.41 15.18
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]: 7.44	

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: ____

2.5 (Gals.) X 3 = 7.5 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
1127	15.0	7.34	2972	>1000	2.5	
1131	15.2	7.23	2450	>1000	5.0	
1136	15.3	7.27	2491	>1000	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 2/8/10 Sampling Time: 1140 Depth to Water: 5.21

Sample I.D.: MW-1a Laboratory: Kiff CalScience Other Cal

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): DUP-1 @ 1150

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

D.O. (if req'd):	(Pre-purge):	1.07 mg/L	Post-purge:	0.39 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

Equipment Blank @ 11:30

WELL MONITORING DATA SHEET

Project #: 100208-RM	Client: STANTEC
Sampler: RM/JP	Date: 2/8/10
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.23	Depth to Water (DTW): 5.28
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]: 10.07	

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: ___

15.50 (Gals.) X 3 = 46.5 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
0926	17.4	6.65	4096	378	15.5	cloudy
0929	18.8	6.81	4519	105	31.0	
0932	18.9	6.91	4616	50	46.5	

Did well dewater? Yes (No) Gallons actually evacuated: 46.5

Sampling Date: 2/8/10 Sampling Time: 0940 Depth to Water: 5.40

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

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:	3.56 mg/L	Post-purge:	2.82 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

WELL MONITORING DATA SHEET

Project #: 100208-RM1	Client: STANTEC
Sampler: RM/BT	Date: 2/8/10
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.02	Depth to Water (DTW): 4.71 (24.31)
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]: 9.57	

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: _____

15.8 (Gals.) X 3 = 47.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1110	16.8	7.18	9550	126	15.8	
~~1113~~ (BP)	* Well dewatered @ 20 gallons				~~31.6~~ (BP)	
~~1117~~ (BP)					~~47.4~~ (BP)	
1157	16.2	6.97	11102	200		well dewatered @ 30 gallons
1215	17.6	6.92	15150	579	48.0	

Did well dewater? (Yes) No Gallons actually evacuated: 48.0

Sampling Date: 2/8/10 Sampling Time: 1220 Depth to Water: 9.10

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other CT

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

WELL MONITORING DATA SHEET

Project #: 100208 -RM	Client: STANTEC
Sampler: RM/BP	Date: 2/8/10
Well I.D.: MW-7a	Well Diameter (2) 3 4 6 8 ___
Total Well Depth (TD): 19.41	Depth to Water (DTW): 4.28 15.13
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]: 7.30	

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: _____

2.5 (Gals.) X	3	= 7.5 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
1129	16.1	7.46	4927	719	2.5	
1133	16.6	7.38	4663	>1000	5.0	
1137	17.1	7.43	4490	>1000	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 2/8/10 Sampling Time: 1145 Depth to Water: 4.54

Sample I.D.: MW-7a 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:	2.52 mg/L	Post-purge:	0.31	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 100208-RM1	Client: STANTEC
Sampler: RM/BS	Date: 2/8/10
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 26.12	Depth to Water (DTW): 3.58
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]: 8.08	

2.54

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: _____

14.7 (Gals.) X 3 = 44.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0950	17.2	7.18	6951	114	14.7	
0953	17.6	7.09	7140	218	29.4	
0956	17.8	7.09	7447	108	44.1	

Did well dewater? Yes (No) Gallons actually evacuated: 44.1

Sampling Date: 2/8/10 Sampling Time: 1000 Depth to Water: 8.05

Sample I.D.: MW-8 Laboratory: Kiff CalScience Other CT

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):	3.58 mg/L	(Post-purge):	0.81	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 100208-RM1	Client: STANTEC
Sampler: RM/SP	Date: 2/8/10
Well I.D.: OW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.15	Depth to Water (DTW): 4.20 (9.95)
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]: 6.19	

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:_____

1 Case Volume	Specified Volumes	Calculated Volume
6.5 (Gals.) X	3 =	19.5 Gals.

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
1014	16.5	7.09	3338	66	6.5	
1015	16.7	7.00	3240	24	13.0	
1017	16.6	6.98	3196	10	19.5	

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

Sampling Date: 2/8/10 Sampling Time: 1025 Depth to Water: 4.35

Sample I.D.: OW-1 Laboratory: Kiff CalScience Other CLT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Sos 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:	2.91 mg/L	Post-purge:	0.64 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 100208-RM4	Client: STANTEC
Sampler: RM/BP	Date: 2/8/10
Well I.D.: OW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 13.93	Depth to Water (DTW): 4.41
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]: 6.31	

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: _____

6.2 (Gals.) X 3 = 18.6 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
1042	16.5	7.43	3207	432	6.2	
1043	16.7	7.18	3170	93	12.4	
1045	16.6	7.10	3098	36	18.6	

Did well dewater? Yes (No)			Gallons actually evacuated: 18.6		
Sampling Date: 2/8/10	Sampling Time: 1050		Depth to Water: 4.91		
Sample I.D.: OW-2			Laboratory: Kiff CalScience Other CT		
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):	2.17	mg/L	Post-purge:	0.42	mg/L
O.R.P. (if req'd): Pre-purge:		mV	Post-purge:		mV

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

Client: Stanbee

Site Address: 725 Jolie Ann Way

STATUS OF DRUM(S) UPON ARRIVAL						
Date	4/22/09	2/8/10				
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				
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				
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 4 H2O)	22				
Total drum(s) on site:	6	23				
Are the drum(s) properly labeled?	Y	Y				
Drum ID & Contents:	purge H2O	Purge H2O Soil				

LOCATION OF DRUM(S)
Describe location of drum(s):

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


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 218203
ANALYTICAL REPORT

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

Sample ID	Lab ID
MW-1A	218203-001
MW-2	218203-002
MW-4	218203-003
MW-7A	218203-004
MW-8	218203-005
OW-1	218203-006
OW-2	218203-007
TB	218203-008
DUP-1	218203-009
EB	218203-010

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: 02/18/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**218203**
Client:	**Stantec**
Location:	**725 Julie Ann Way Oakland CA**
Request Date:	**02/08/10**
Samples Received:	**02/08/10**

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 02/08/10. The samples were received cold and intact.

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

Volatile Organics by GC/MS (EPA 8260B):
High RPD was observed for a number of analytes in the BS/BSD for batch 160076; these analytes were not detected at or above the RL in the associated samples. No other analytical problems were encountered.

BLAINE
TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB C&T Berkeley 218203 DHS #

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

CHAIN OF CUSTODY BTS # 100208-Bm1
CLIENT Stantec
SITE 725 Julie Ann Way
Oakland CA

SPECIAL INSTRUCTIONS

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

Nitrate = 48 hr. HOLD TIME

	SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS		TPH-G / BTEX / MTBE (8260B)	EDB / EDC (8260B)	Napthalene (8260B)	Nitrate / Sulfate (300.0)	TPH-D		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	MW-1a	2/8/10	1140	W	5	Mix			X	X			X					
2	MW-2		0940		5				X	X			X					
3	MW-4		1220		5				X	X			X					
4	MW-7a		1145		5				X	X			X					
5	MW-8		1000		5				X	X			X					
6	OW-1		1025		5				X	X			X					
7	OW-2		1050		5				X	X			X					
8	TB		0900		2				X				X					
9	DUP-1		1150		4				X	X			X					
10	EB	↓	1130	↓	4	↓			X	X			X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	2/8/10	1220	R McCarthy

RESULTS NEEDED NO LATER THAN **Standard TAT**

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
R McCarthy	2/8/10	1425		2/8/10	1425
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

intact on ice cold Rc

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 218203 Date Received 2/8/10 Number of coolers 1
Client STANTEC Project 725 JULIE ANN WAY

Date Opened 2/8/10 By (print) M. VILLANUEVA (sign)
Date Logged in ✓ By (print) ✓ (sign) ✓

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

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) 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) 2.7

☐ 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)
If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
11. Are sample labels present, in good condition and complete? ____ (YES) NO
12. Do the sample labels agree with custody papers? ____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? ____ YES (NO)
14. Are the samples appropriately preserved? ____ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? ____ YES (NO) N/A
16. Was the client contacted concerning this sample delivery? ____ YES NO
If YES, Who was called? ____ By ____ Date: ____

COMMENTS
NO CONTAINER RECD FOR THAT FOR TB.
SAMPLE # 1 of 7 VOAs W/ BUBBLE

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/08/10
Units:	ug/L	Received:	02/08/10
Diln Fac:	1.000	Prepared:	02/10/10
Batch#:	159953	Analyzed:	02/11/10

Field ID: MW-1A
Type: SAMPLE
Lab ID: 218203-001

Analyte	Result	RL
Diesel C10-C24	5,600	50

Surrogate	%REC	Limits
o-Terphenyl	90	39-150

Field ID: MW-2
Type: SAMPLE
Lab ID: 218203-002

Analyte	Result	RL
Diesel C10-C24	870 Y	50

Surrogate	%REC	Limits
o-Terphenyl	91	39-150

Field ID: MW-4
Type: SAMPLE
Lab ID: 218203-003

Analyte	Result	RL
Diesel C10-C24	12,000	50

Surrogate	%REC	Limits
o-Terphenyl	110	39-150

Field ID: MW-7A
Type: SAMPLE
Lab ID: 218203-004

Analyte	Result	RL
Diesel C10-C24	560	50

Surrogate	%REC	Limits
o-Terphenyl	95	39-150

Field ID: MW-8
Type: SAMPLE
Lab ID: 218203-005

Analyte	Result	RL
Diesel C10-C24	360 Y	50

Surrogate	%REC	Limits
o-Terphenyl	94	39-150

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/08/10
Units:	ug/L	Received:	02/08/10
Diln Fac:	1.000	Prepared:	02/10/10
Batch#:	159953	Analyzed:	02/11/10

Field ID: OW-1 Lab ID: 218203-006
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	11,000	50

Surrogate	%REC	Limits
o-Terphenyl	100	39-150

Field ID: OW-2 Lab ID: 218203-007
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	10,000	50

Surrogate	%REC	Limits
o-Terphenyl	95	39-150

Field ID: DUP-1 Lab ID: 218203-009
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	5,800	50

Surrogate	%REC	Limits
o-Terphenyl	91	39-150

Field ID: EB Lab ID: 218203-010
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	94	39-150

Type: BLANK Lab ID: QC532285

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	104	39-150

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 #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC532286	Batch#:	159953
Matrix:	Water	Prepared:	02/10/10
Units:	ug/L	Analyzed:	02/11/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,058	82	34-144

Surrogate	%REC	Limits
o-Terphenyl	97	39-150

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	159953
MSS Lab ID:	218234-001	Sampled:	02/09/10
Matrix:	Water	Received:	02/09/10
Units:	ug/L	Prepared:	02/10/10
Diln Fac:	1.000	Analyzed:	02/11/10

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC532287

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	21.48	2,500	2,169	86	21-160

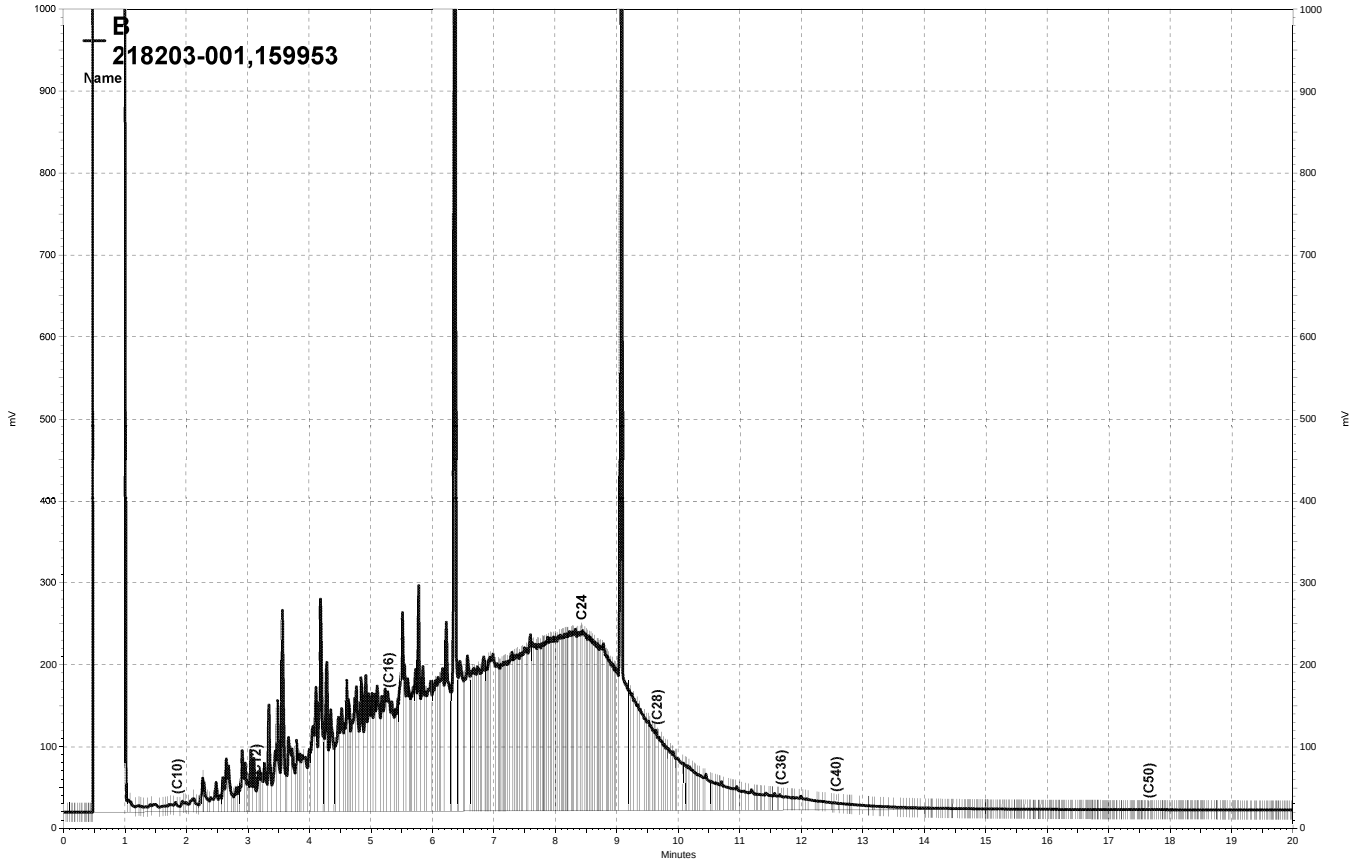
Surrogate	%REC	Limits
o-Terphenyl	102	39-150

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC532288

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,142	85	21-160	1	58

Surrogate	%REC	Limits
o-Terphenyl	101	39-150

RPD= Relative Percent Difference



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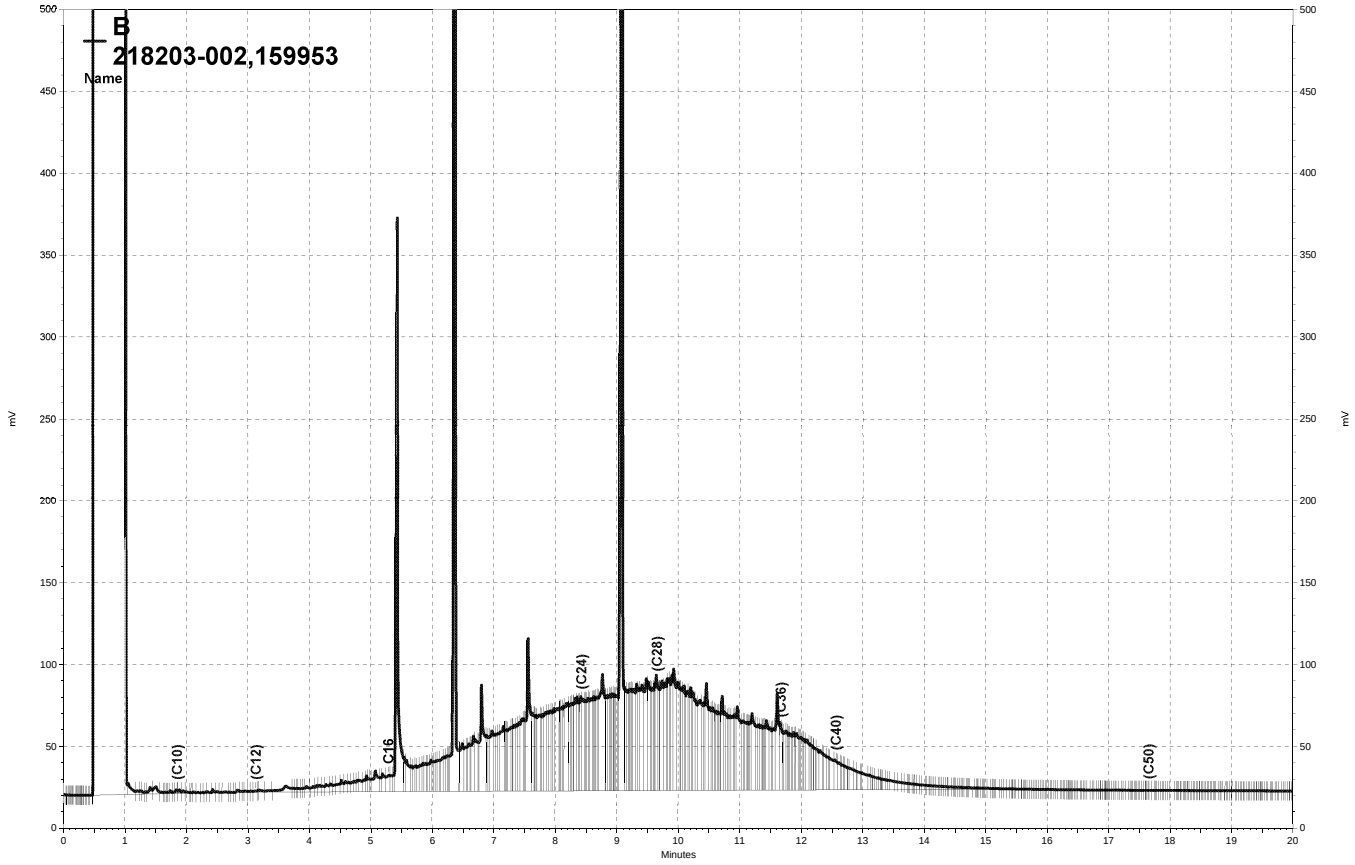

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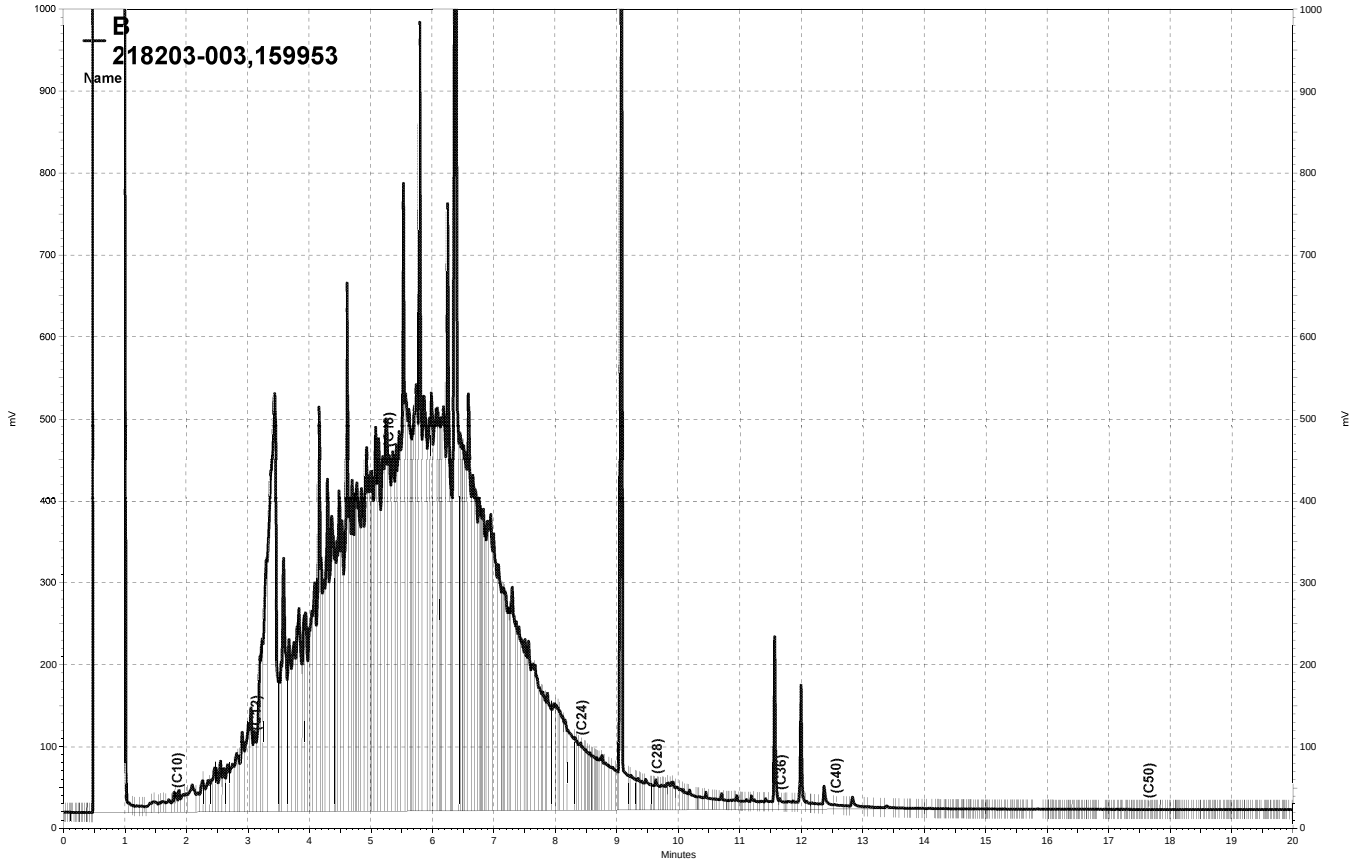

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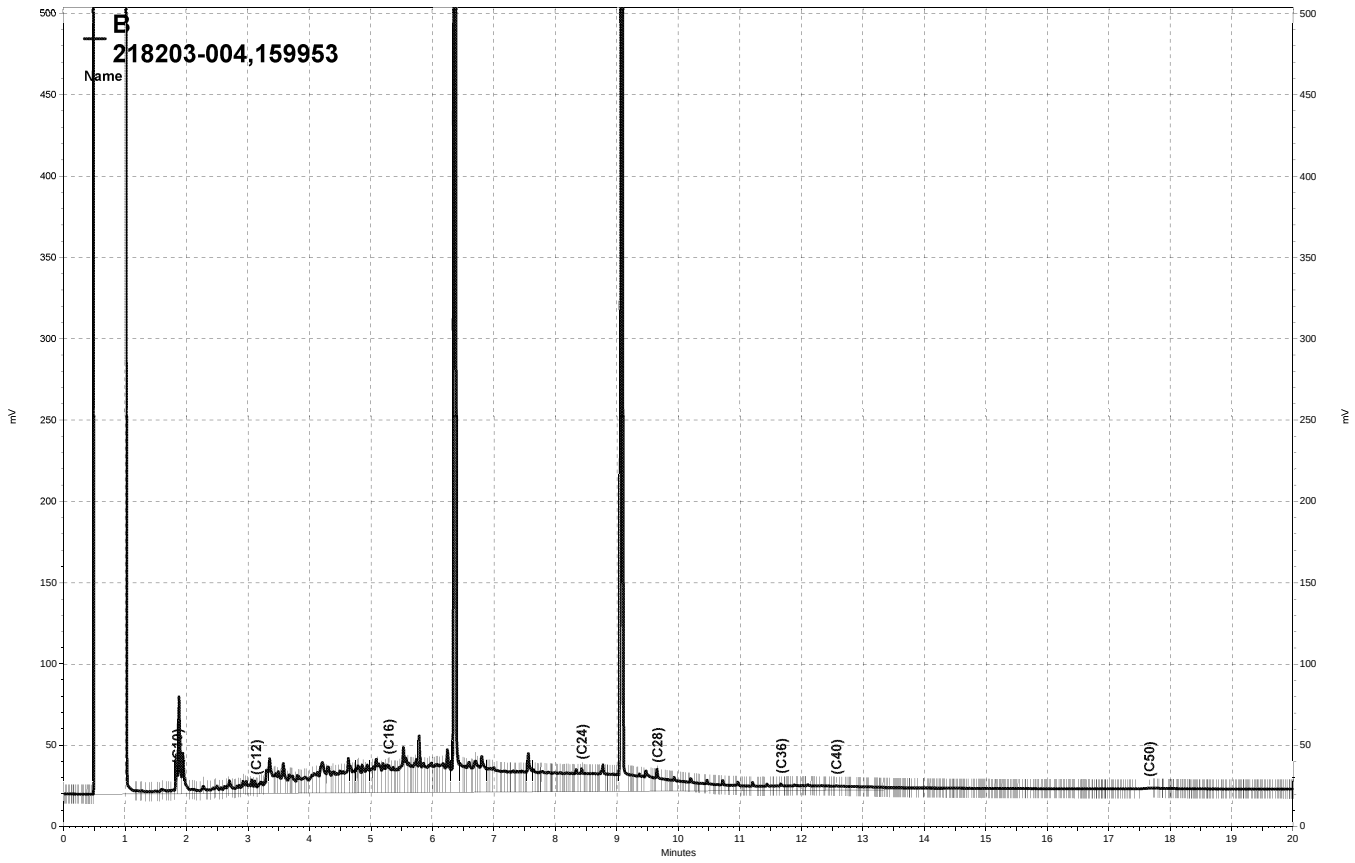

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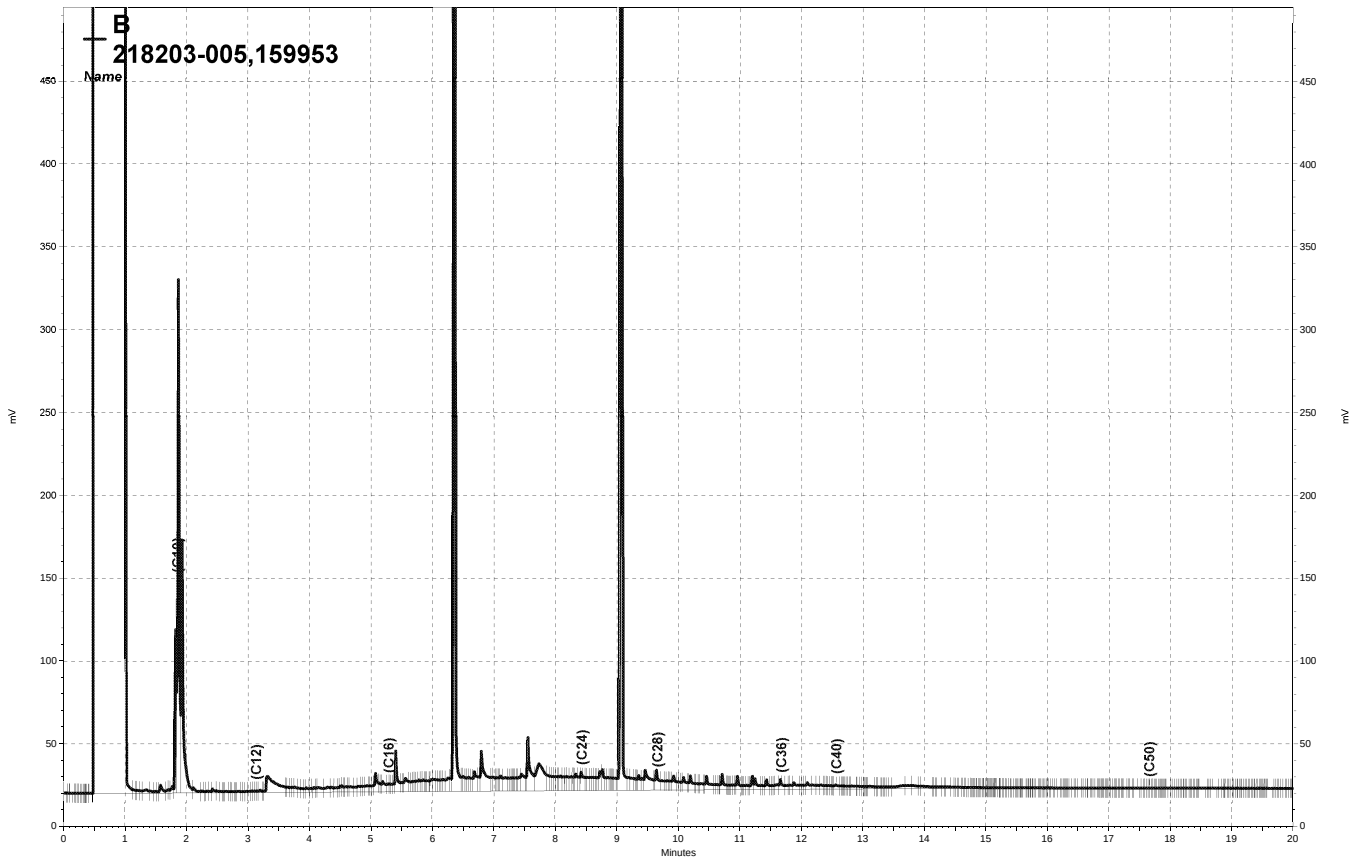

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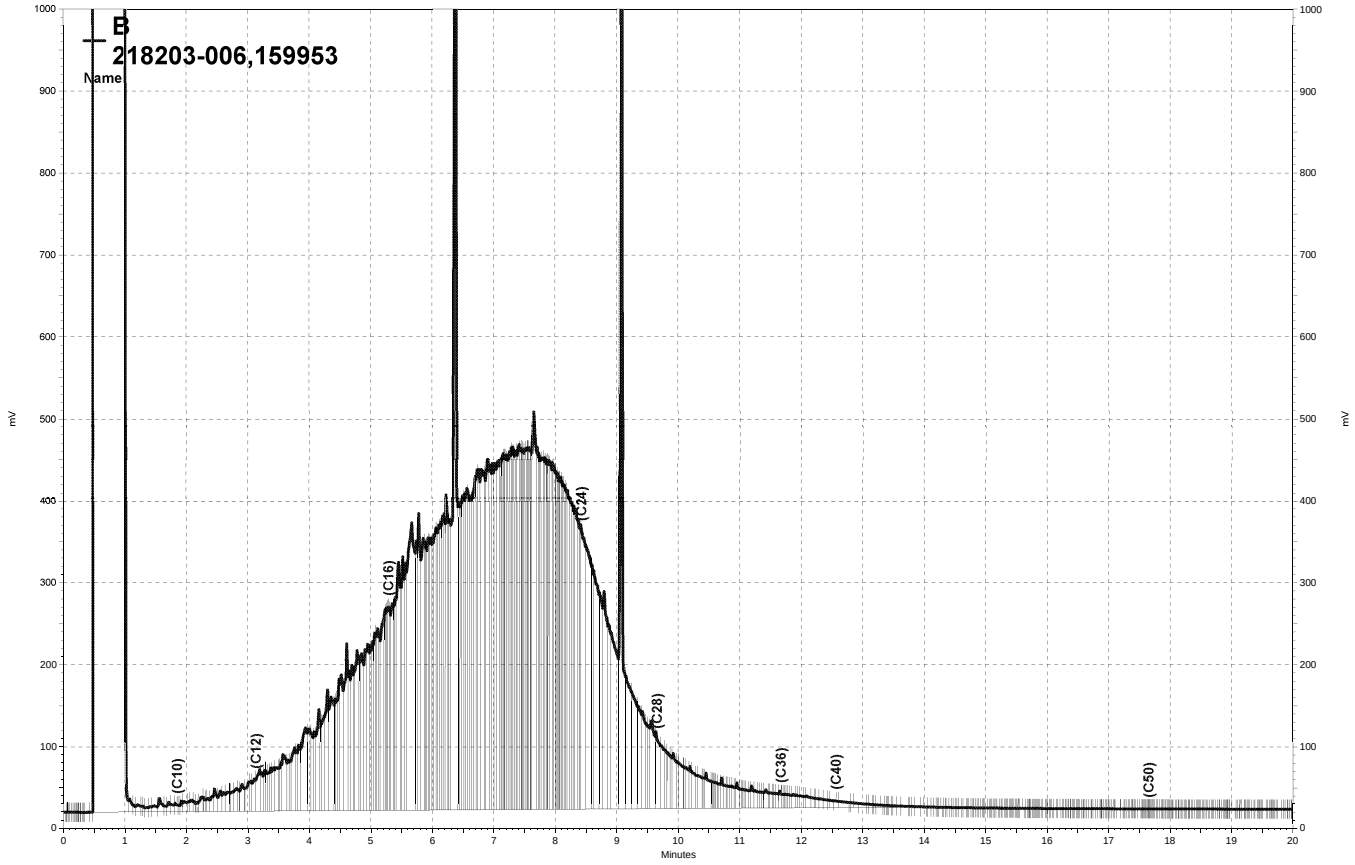

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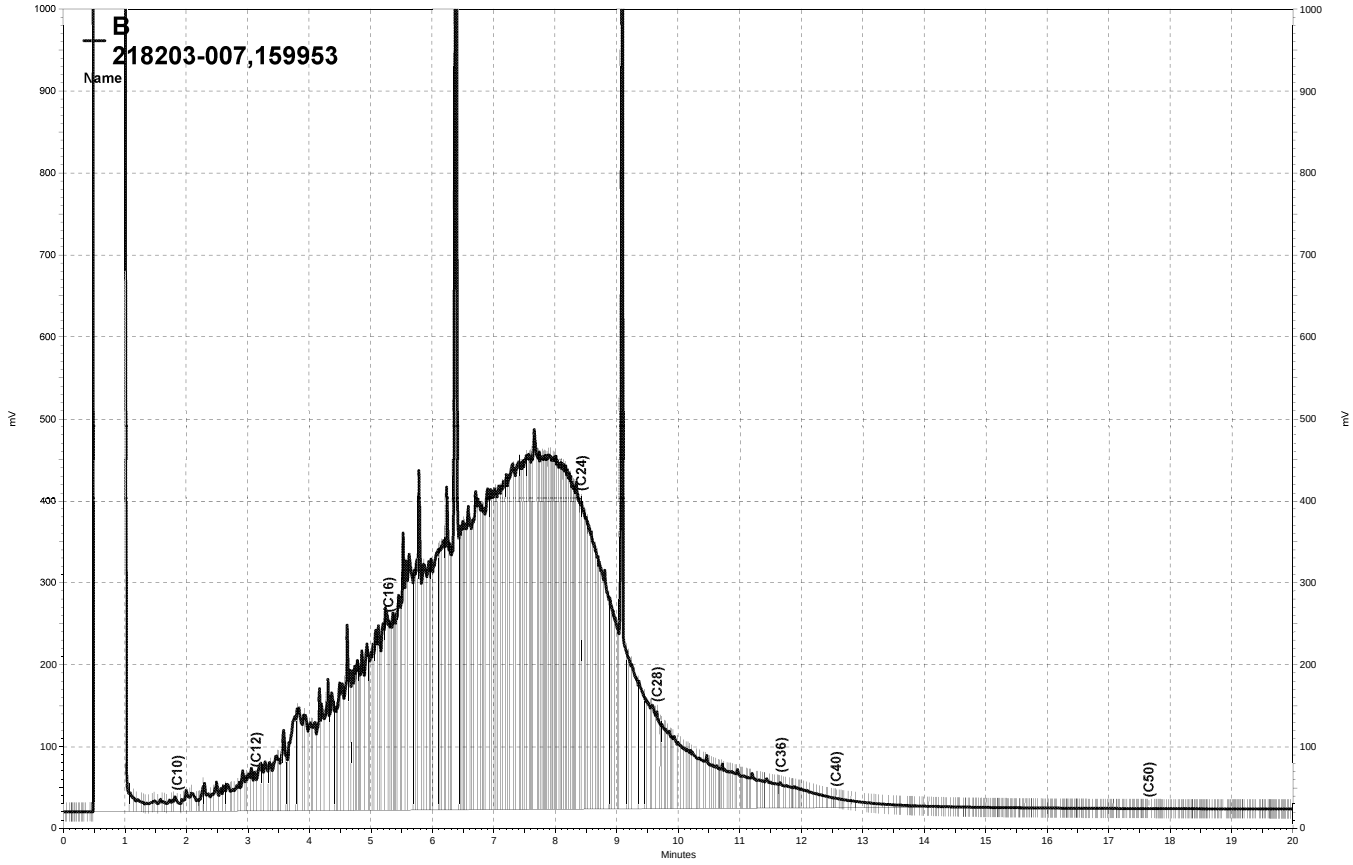

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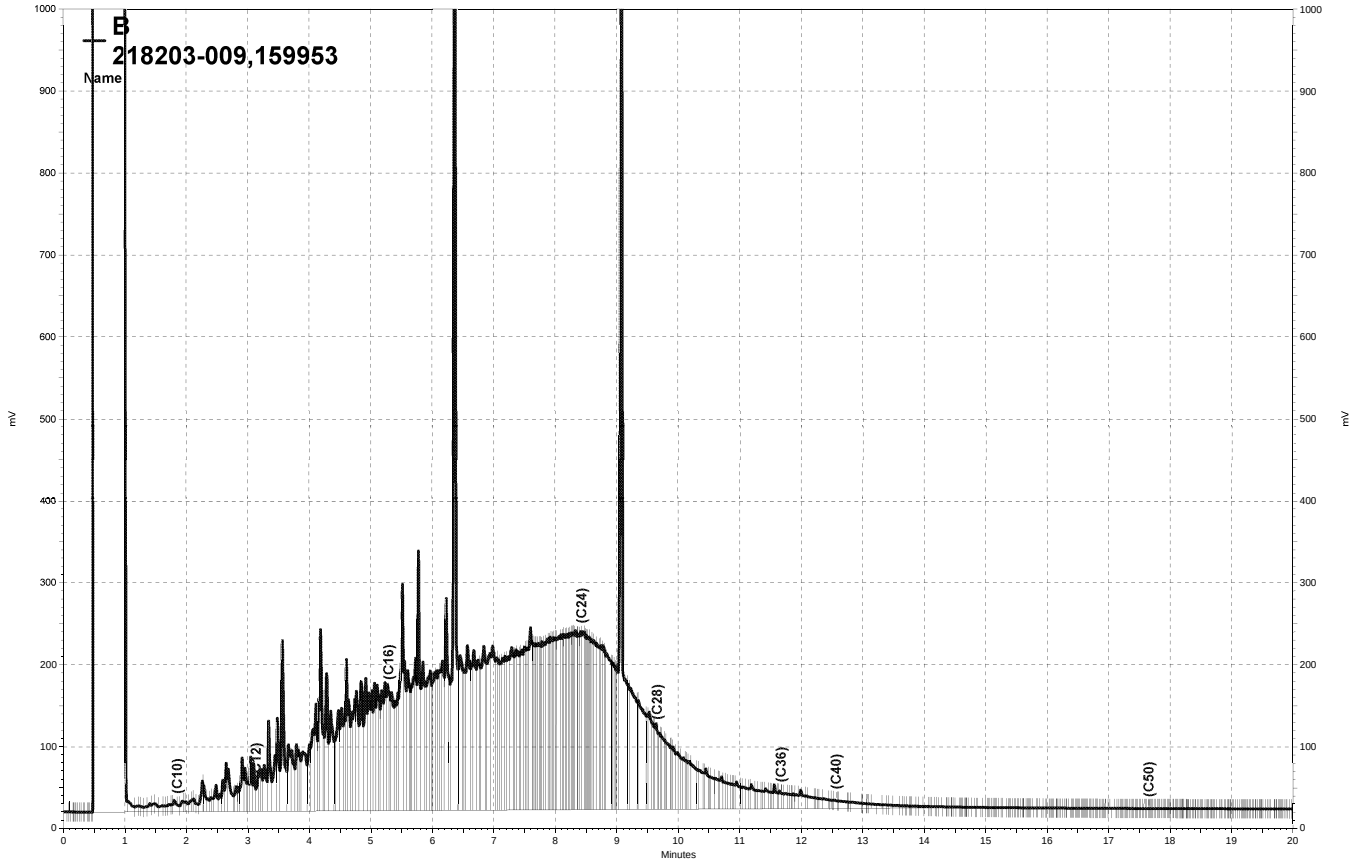

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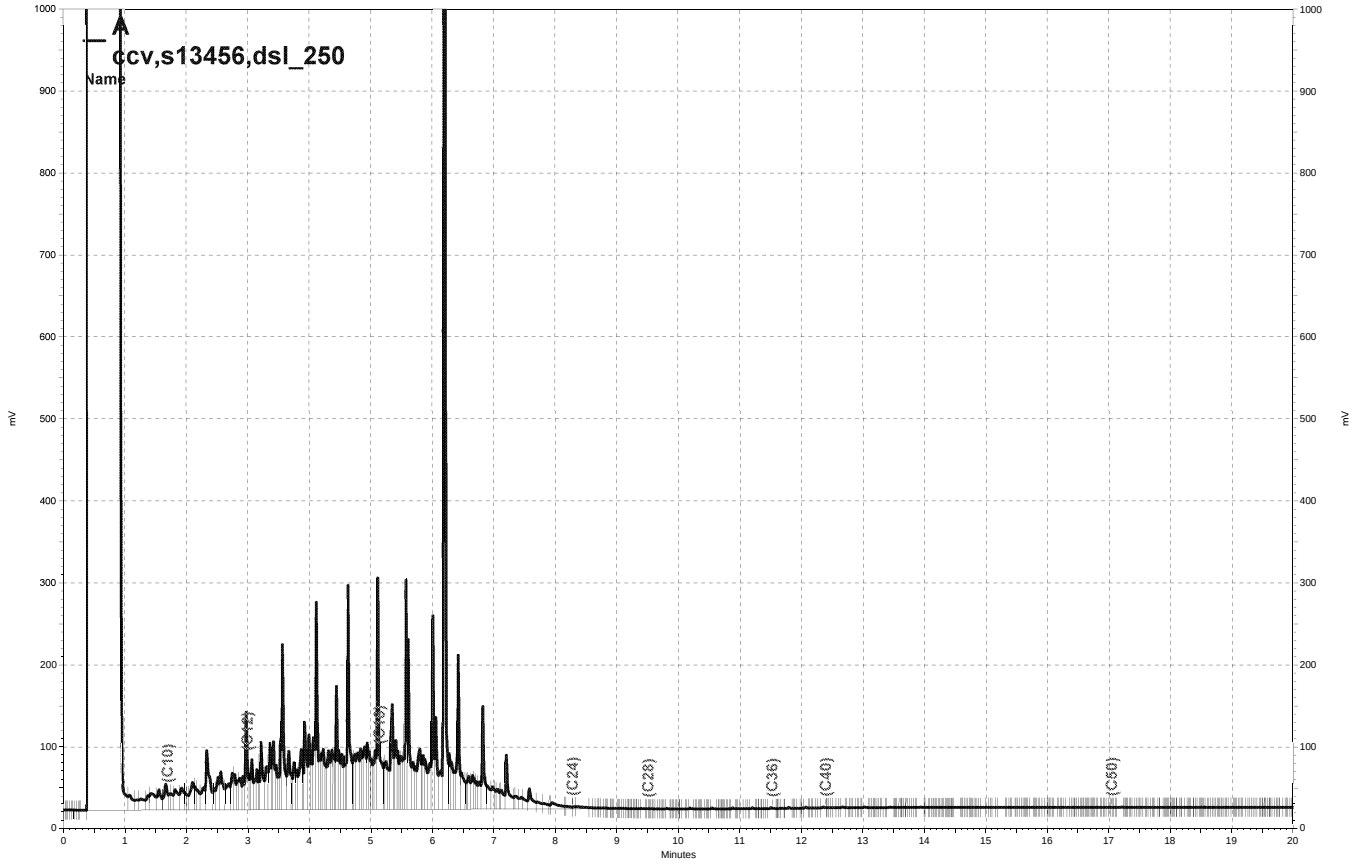

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Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-1A	Batch#:	160123
Lab ID:	218203-001	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	120 Y	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	90	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	160076
Lab ID:	218203-002	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	92	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	160123
Lab ID:	218203-003	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	120 Y	50
MTBE	1.6	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	93	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-7A	Batch#:	160123
Lab ID:	218203-004	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	52 Y	50
MTBE	2.4	0.50
1,2-Dichloroethane	ND	0.50
Benzene	0.63	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	94	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	160123
Lab ID:	218203-005	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	1.7	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-1	Batch#:	160123
Lab ID:	218203-006	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	5.1	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-2	Batch#:	160123
Lab ID:	218203-007	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	140 Y	50
MTBE	4.9	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TB	Batch#:	160076
Lab ID:	218203-008	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	94	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	160123
Lab ID:	218203-009	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	110 Y	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	95	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	EB	Batch#:	160076
Lab ID:	218203-010	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	91	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC532760	Batch#:	160076
Matrix:	Water	Analyzed:	02/16/10
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	93	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160076
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532761

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	21.44	86	61-123
1,2-Dichloroethane	25.00	24.23	97	66-141
Benzene	25.00	23.20	93	81-122
Toluene	25.00	24.01	96	82-122
1,2-Dibromoethane	25.00	26.86	107	81-122
Ethylbenzene	25.00	24.83	99	86-125
m,p-Xylenes	50.00	49.73	99	83-127
o-Xylene	25.00	24.97	100	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	96	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	91	80-127

Type: BSD Lab ID: QC532762

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	18.72	75	61-123	14 *	11
1,2-Dichloroethane	25.00	23.23	93	66-141	4	12
Benzene	25.00	22.22	89	81-122	4	12
Toluene	25.00	22.68	91	82-122	6	12
1,2-Dibromoethane	25.00	26.01	104	81-122	3	11
Ethylbenzene	25.00	23.74	95	86-125	4	12
m,p-Xylenes	50.00	48.34	97	83-127	3	13
o-Xylene	25.00	23.98	96	81-122	4	12

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	95	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	91	80-127

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160076
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532763

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,008	101	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	90	80-127

Type: BSD Lab ID: QC532764

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	953.9	95	74-124	5	13

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	92	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC532968	Batch#:	160123
Matrix:	Water	Analyzed:	02/17/10
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	93	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC532969	Batch#:	160123
Matrix:	Water	Analyzed:	02/17/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	21.61	86	61-123
1,2-Dichloroethane	25.00	25.23	101	66-141
Benzene	25.00	24.53	98	81-122
Toluene	25.00	25.22	101	82-122
1,2-Dibromoethane	25.00	27.55	110	81-122
Ethylbenzene	25.00	26.28	105	86-125
m,p-Xylenes	50.00	52.80	106	83-127
o-Xylene	25.00	26.36	105	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160123
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532970

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	999.9	100	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	96	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

Type: BSD Lab ID: QC532971

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	969.2	97	74-124	3	13

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	91	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	160123
MSS Lab ID:	218274-001	Sampled:	02/11/10
Matrix:	Water	Received:	02/11/10
Units:	ug/L	Analyzed:	02/18/10
Diln Fac:	1.000		

Type: MS Lab ID: QC532995

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.1000	25.00	19.72	79	59-128
1,2-Dichloroethane	<0.1000	25.00	25.34	101	64-149
Benzene	<0.1000	25.00	24.76	99	75-130
Toluene	<0.1000	25.00	25.34	101	79-129
1,2-Dibromoethane	<0.1000	25.00	26.72	107	80-127
Ethylbenzene	<0.1022	25.00	25.71	103	81-130
m,p-Xylenes	<0.1357	50.00	50.72	101	77-133
o-Xylene	<0.1322	25.00	25.41	102	82-123

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	96	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	94	80-127

Type: MSD Lab ID: QC532996

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	18.73	75	59-128	5	12
1,2-Dichloroethane	25.00	23.68	95	64-149	7	13
Benzene	25.00	23.17	93	75-130	7	11
Toluene	25.00	23.17	93	79-129	9	12
1,2-Dibromoethane	25.00	25.14	101	80-127	6	11
Ethylbenzene	25.00	23.94	96	81-130	7	12
m,p-Xylenes	50.00	47.04	94	77-133	8	12
o-Xylene	25.00	23.71	95	82-123	7	11

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	92	80-127

RPD= Relative Percent Difference

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\021710.b\JBH17TVH.D

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Client ID: DYNA P&T

Instrument: MSVOA10.i

Sample Info: S,218203-001

Operator: VOA

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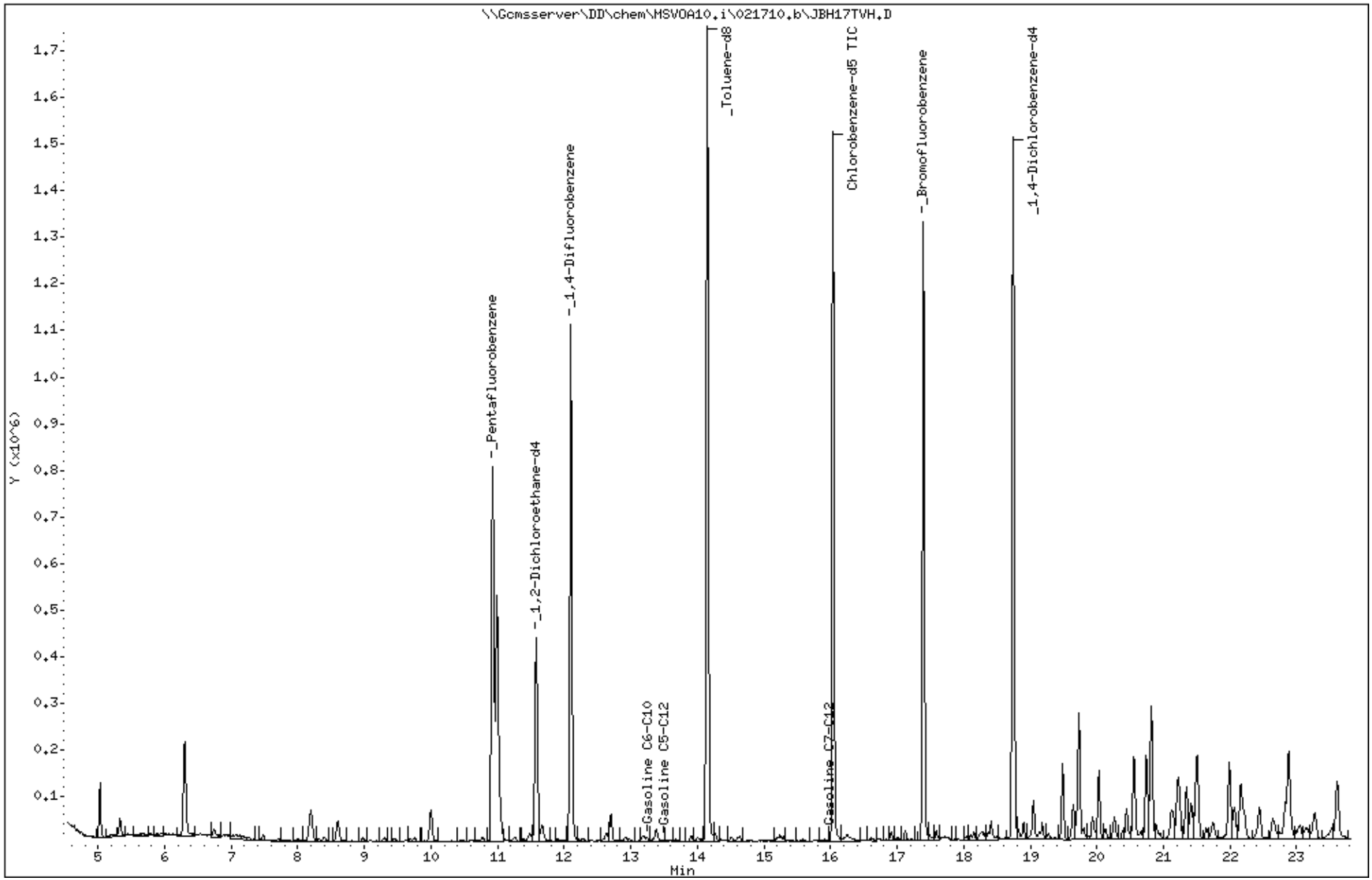
Column diameter: 2.00



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Instrument: MSVOA10.i

Sample Info: S,218203-003

Operator: VOA

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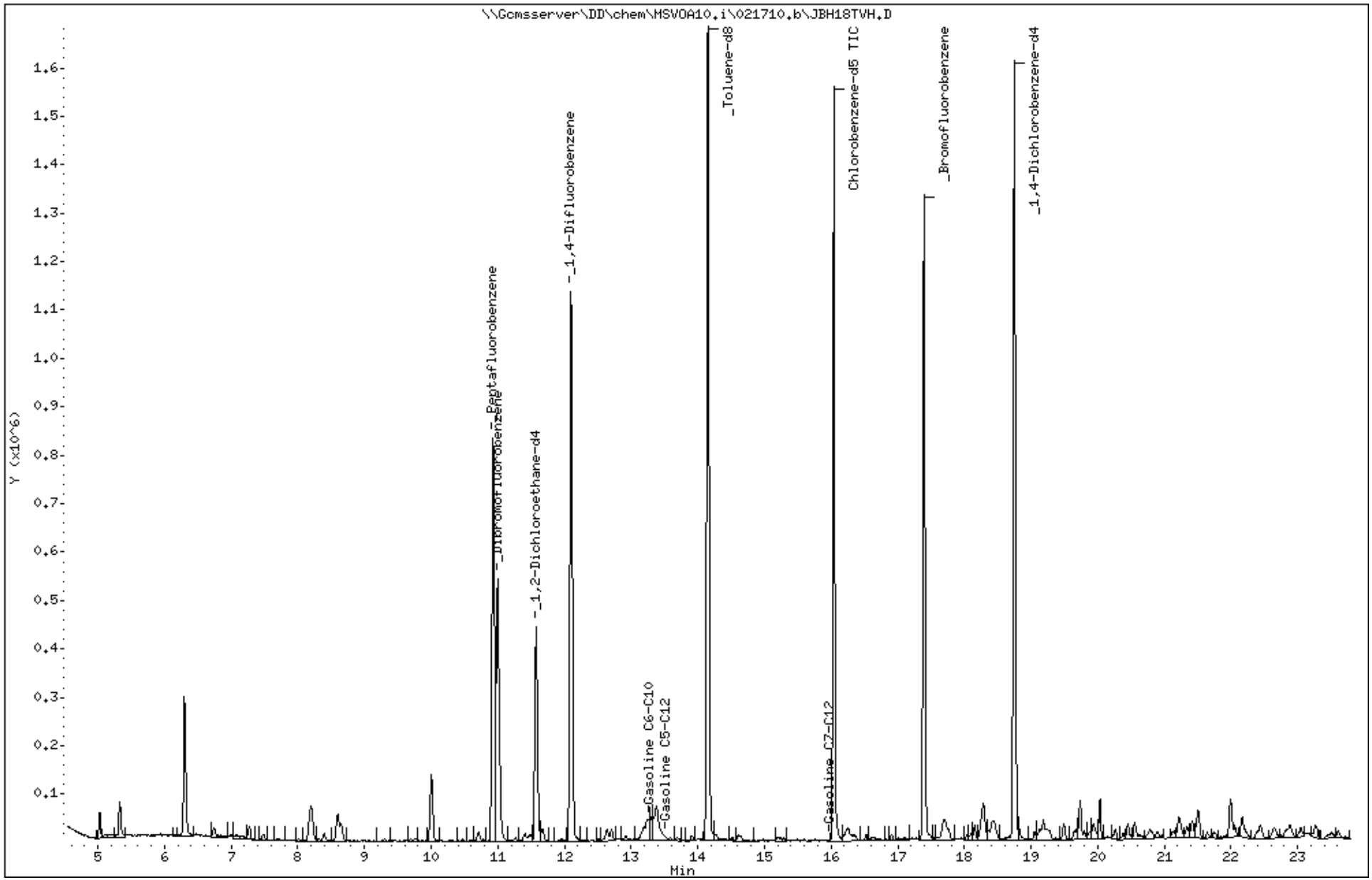
Column diameter: 2.00



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Date : 17-FEB-2010 23:08

Client ID: DYNA P&T

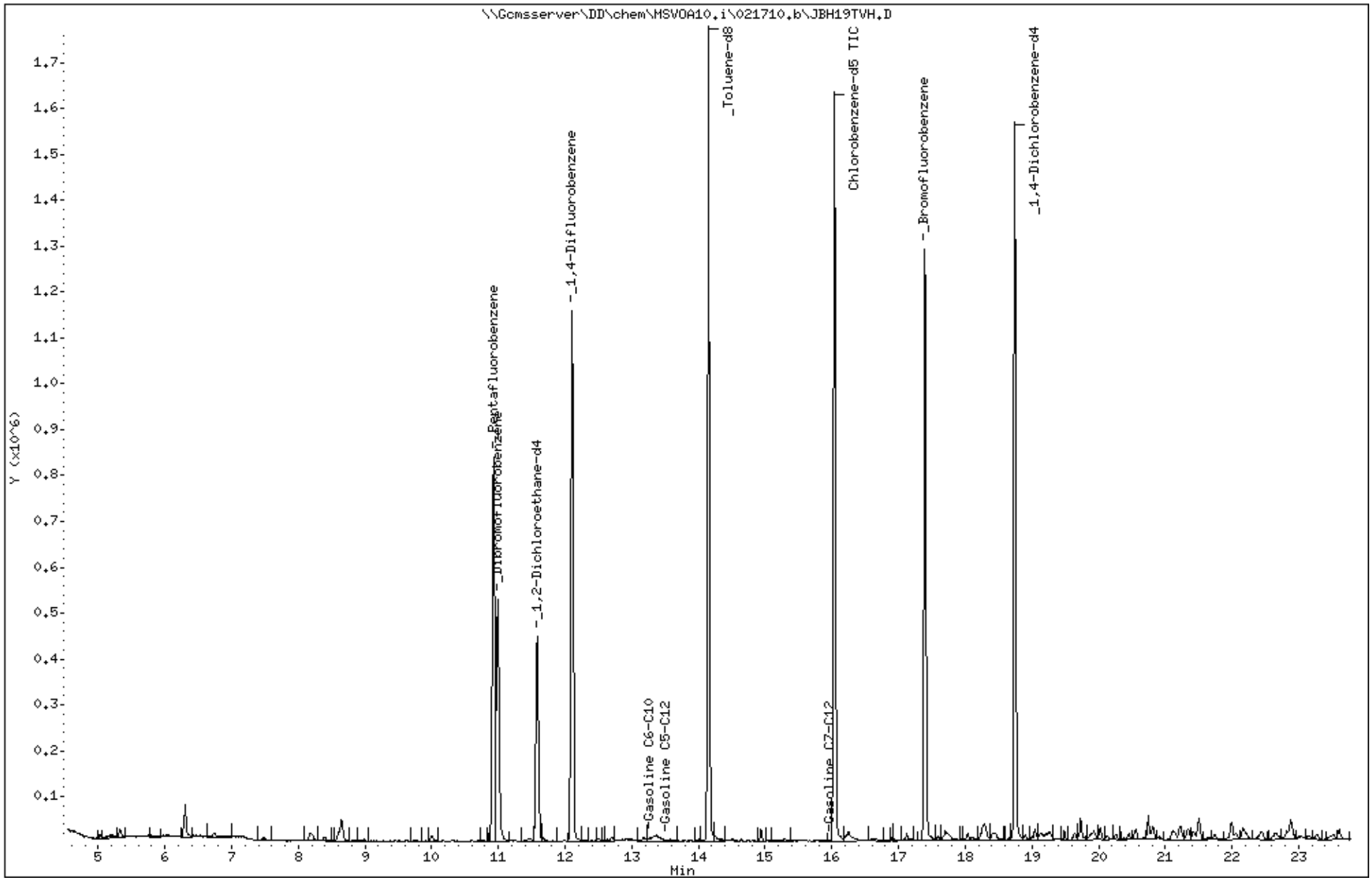
Instrument: MSVOA10.i

Sample Info: S,218203-004

Operator: VOA

Column phase:

Column diameter: 2.00



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Date : 17-FEB-2010 21:24

Client ID: DYNA P&T

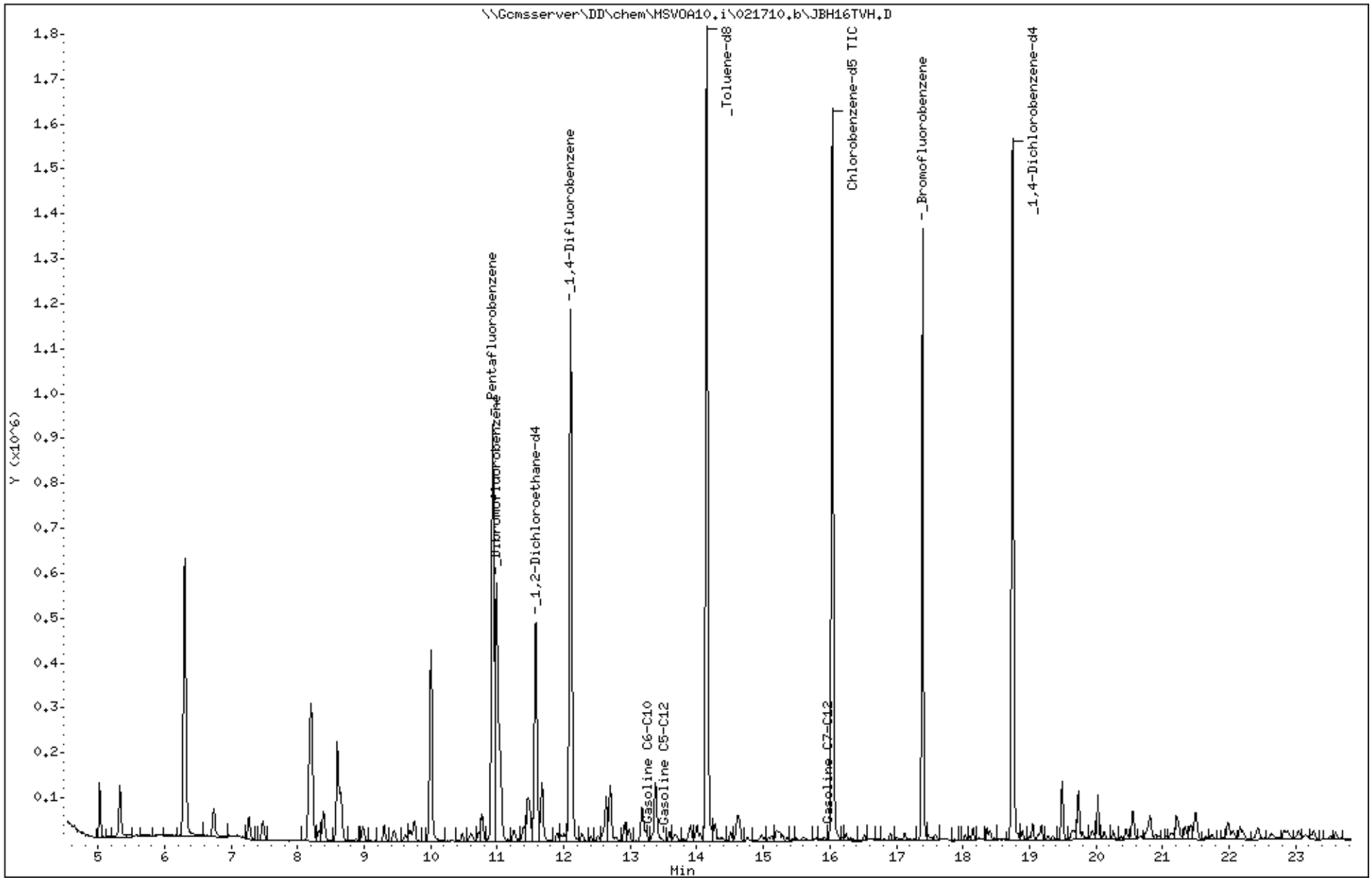
Instrument: MSVOA10.i

Sample Info: S,218203-007

Operator: VOA

Column phase:

Column diameter: 2.00



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Date : 17-FEB-2010 23:43

Client ID: DYNA P&T

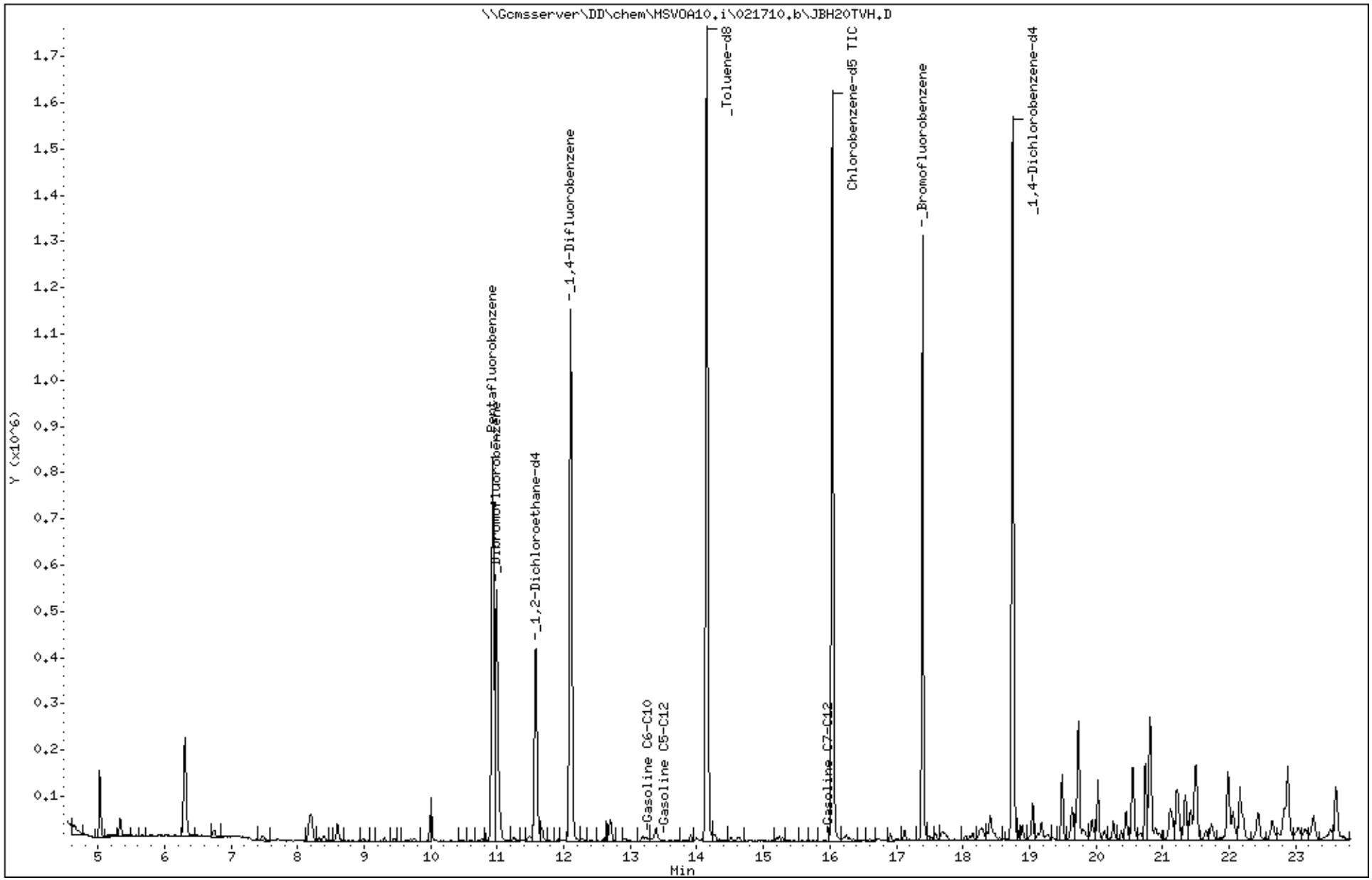
Instrument: MSVOA10.i

Sample Info: S,218203-009

Operator: VOA

Column phase:

Column diameter: 2.00



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Date : 16-FEB-2010 16:58

Client ID: DYNA P&T

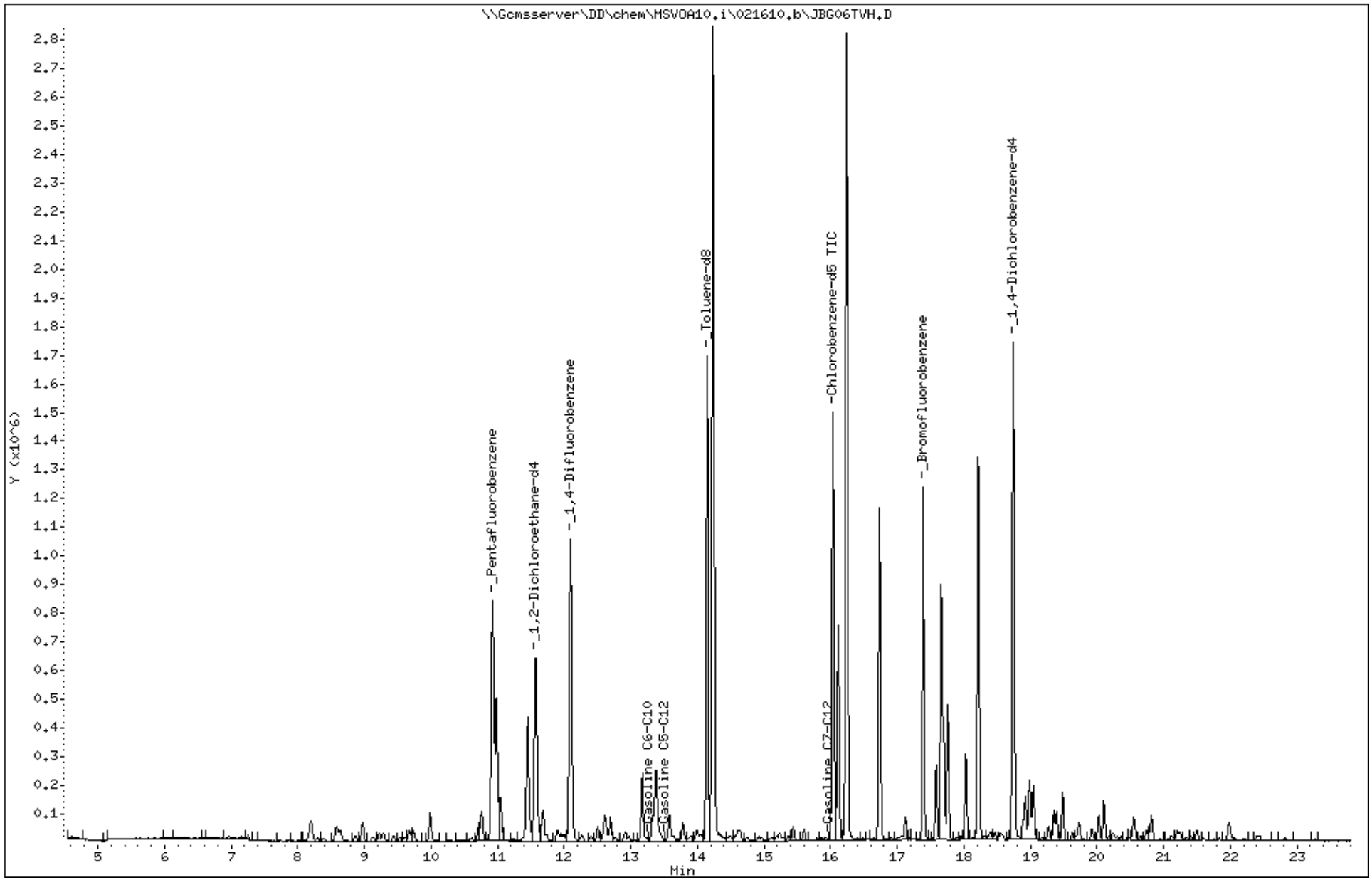
Instrument: MSVOA10.i

Sample Info: CCV/BS,QC532763,160076

Operator: VOA

Column phase:

Column diameter: 2.00



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

Laboratory Job Number 217718
ANALYTICAL REPORT

Stantec	Project : 185702145
57 Lafayette Circle	Location : Penske
Lafayette, CA 94549-4321	Level : II

Sample ID	Lab ID
MW-1R	217718-001
MW-7R	217718-002

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: Desiree N. Tetrault Date: 01/20/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**217718**
Client:	**Stantec**
Project:	**185702145**
Location:	**Penske**
Request Date:	**01/13/10**
Samples Received:	**01/13/10**

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 01/13/10. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in MW-7R (lab # 217718-002); the corresponding trifluorotoluene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

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

Volatile Organics by GC/MS (EPA 8260B):
MW-7R (lab # 217718-002) was diluted due to high hydrocarbons. No other analytical problems were encountered.

27718

CHAIN OF CUSTODY RECORD

Stantec
Stantec Lafayette Office
57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
TEL:(925) 299-9300 FAX:(925)299-9302

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702145

DATE: 1-12-10

PAGE: 1 OF 1

Project Name: Pensite

Address: 725 Julie Ann Way
Oakland CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: Curtis & Thompkins

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS ☐ 5 DAYS ☐ 72 HR ☐ 48 HR ☐ 24 HR ☐ <24 HR ☐

☐ OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPHg 8015M	BTEX + MTBE 8260B	TPHd 8015M w/silicagel cleanup								Laboratory Notes
	MW-1R	1-11-10	1210	S	1		X	X	X								
	MW-7R	1-11-10	1110	S	1		X	X	X								

	Date:	Time:	Received by: (Signature)		Time:
Relinquished by: (Signature)	1-12-10	1430		1-13-10	1030
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 217718 Date Received 1-13-10 Number of coolers 1
Client STANTEC Project PENSKE

Date Opened 1-13-10 By (print) S. EVANS (sign) [signature]
Date Logged in [illegible] By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) 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)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? _____ YES 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 #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	159177
Units:	mg/Kg	Sampled:	01/11/10
Basis:	as received	Received:	01/13/10
Diln Fac:	1.000	Analyzed:	01/15/10

Field ID: MW-1R Lab ID: 217718-001
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	38-168
Bromofluorobenzene (FID)	121	27-175

Field ID: MW-7R Lab ID: 217718-002
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	29 Y	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	53	38-168
Bromofluorobenzene (FID)	236 *	27-175

Type: BLANK Lab ID: QC529208

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	38-168
Bromofluorobenzene (FID)	96	27-175

*= Value outside of QC limits; see narrative
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 #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC529209	Batch#:	159177
Matrix:	Soil	Analyzed:	01/15/10
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.166	92	74-123

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142	38-168
Bromofluorobenzene (FID)	123	27-175

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8015B
Field ID:	MW-1R	Diln Fac:	1.000
MSS Lab ID:	217718-001	Batch#:	159177
Matrix:	Soil	Sampled:	01/11/10
Units:	mg/Kg	Received:	01/13/10
Basis:	as received	Analyzed:	01/15/10

Type: MS Lab ID: QC529210

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.05361	9.615	8.368	86	14-138

Surrogate	%REC	Limits
Trifluorotoluene (FID)	136	38-168
Bromofluorobenzene (FID)	128	27-175

Type: MSD Lab ID: QC529211

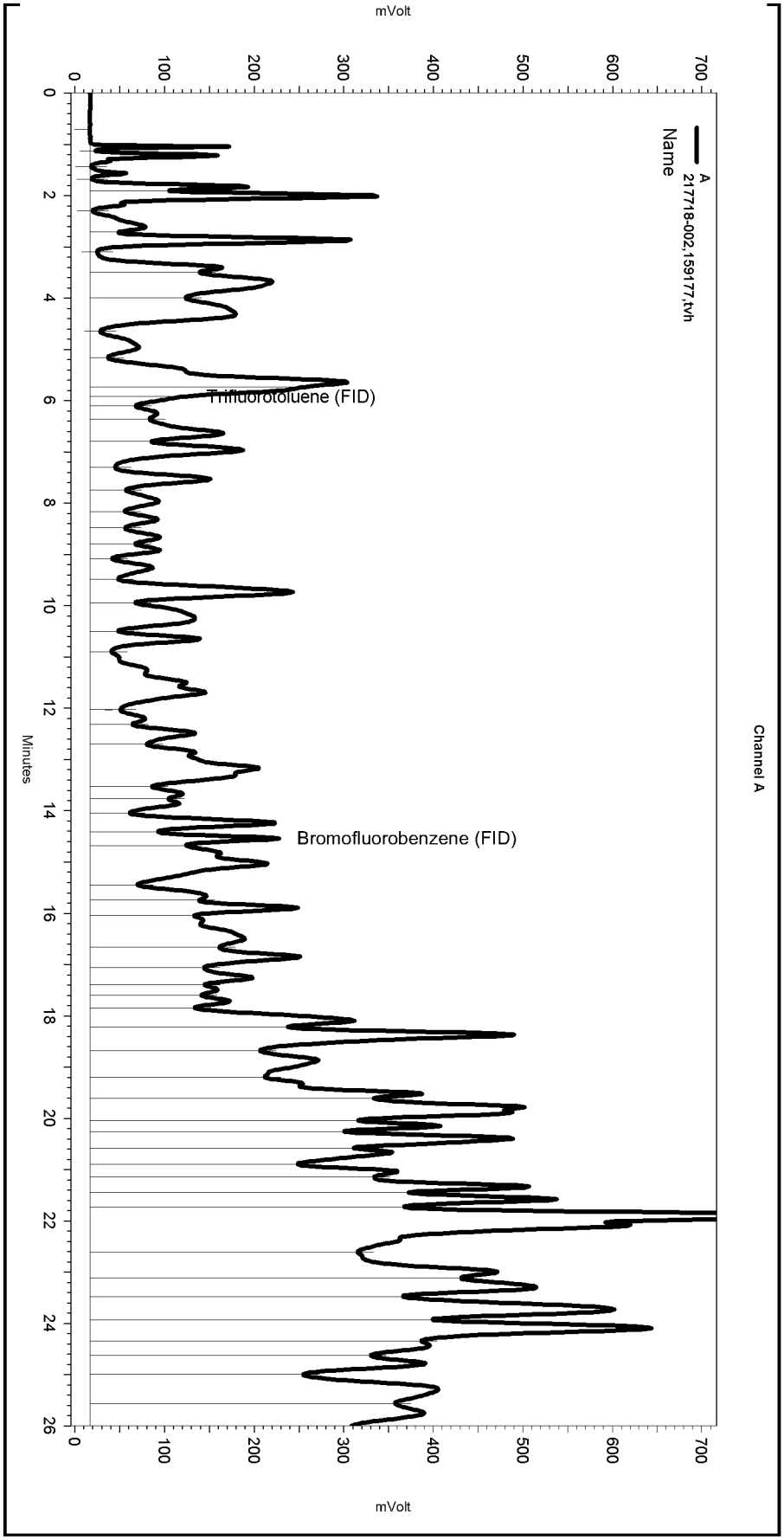
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.53	9.365	88	14-138	2	52

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	38-168
Bromofluorobenzene (FID)	126	27-175

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\015.seq**
Sample Name: **217718-002,159177,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\015_013**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe004.met

Software Version 3.1.7
Run Date: 1/15/2010 8:25:03 PM
Analysis Date: 1/18/2010 8:36:22 AM
Sample Amount: 0.94 Multiplier: 0.94
Vial & pH or Core ID: a



---< 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

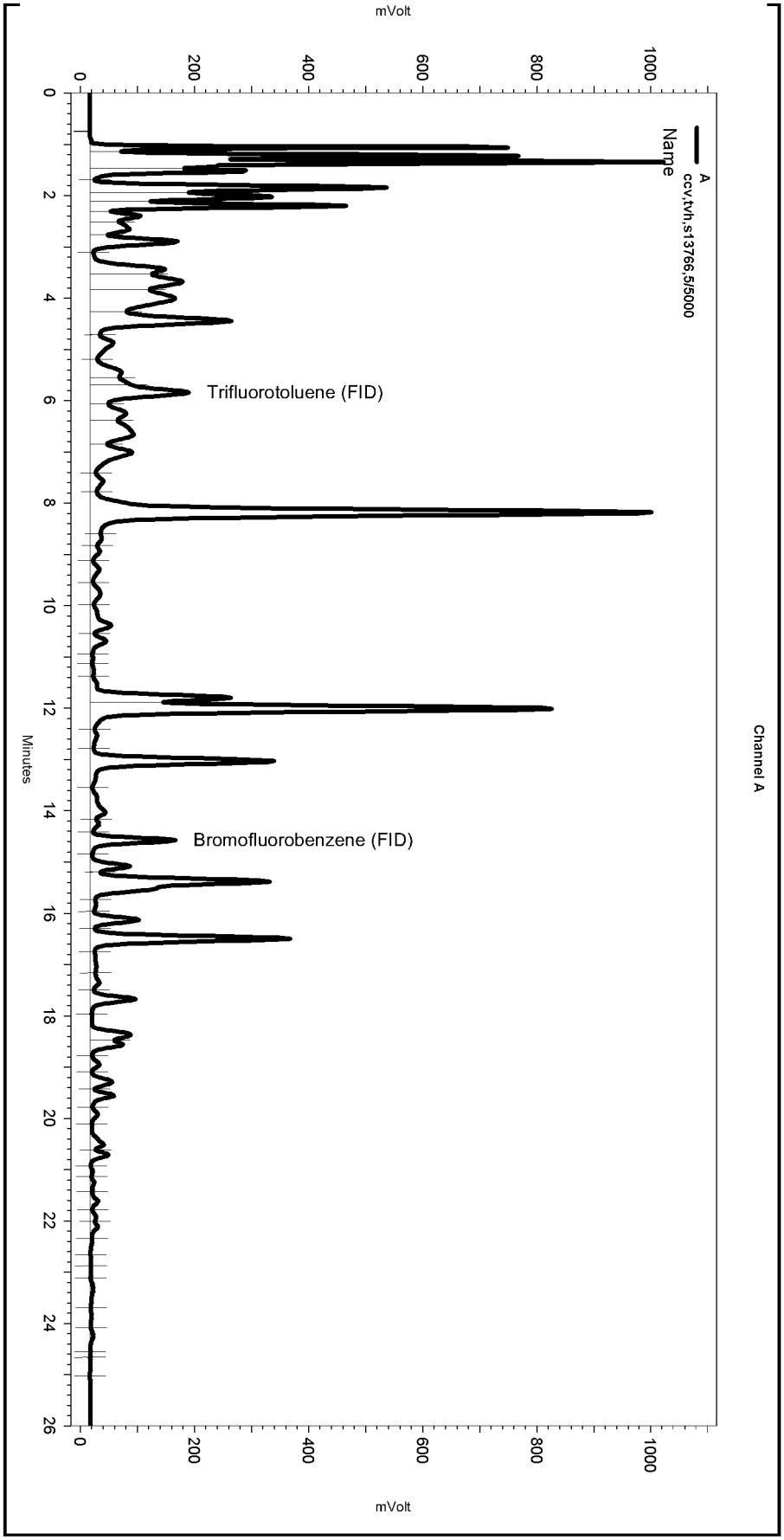
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\015_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.74	0	0
Yes	Split Peak	5.923	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\015.seq**
Sample Name: **ccv,tvh,s13766,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\015_006**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe004.met

Software Version 3.1.7
Run Date: 1/15/2010 11:50:02 AM
Analysis Date: 1/15/2010 12:52:34 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

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\015_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.703	0	0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	SHAKER TABLE
Project#:	185702145	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/11/10
Units:	mg/Kg	Received:	01/13/10
Basis:	as received	Prepared:	01/18/10
Batch#:	159221		

Field ID:	MW-1R	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/18/10
Lab ID:	217718-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	31 Y	1.0

Surrogate	%REC	Limits
o-Terphenyl	98	16-164

Field ID:	MW-7R	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	01/19/10
Lab ID:	217718-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	730	5.0

Surrogate	%REC	Limits
o-Terphenyl	97	16-164

Type:	BLANK	Analyzed:	01/18/10
Lab ID:	QC529367	Cleanup Method:	EPA 3630C
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	94	16-164

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 #:	217718	Location:	Penske
Client:	Stantec	Prep:	SHAKER TABLE
Project#:	185702145	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC529368	Batch#:	159221
Matrix:	Soil	Prepared:	01/18/10
Units:	mg/Kg	Analyzed:	01/18/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.91	43.31	87	36-151

Surrogate	%REC	Limits
o-Terphenyl	95	16-164

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	SHAKER TABLE
Project#:	185702145	Analysis:	EPA 8015B
Field ID:	MW-1R	Batch#:	159221
MSS Lab ID:	217718-001	Sampled:	01/11/10
Matrix:	Soil	Received:	01/13/10
Units:	mg/Kg	Prepared:	01/18/10
Basis:	as received	Analyzed:	01/18/10
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC529369

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	30.84	49.57	78.69	97	3-174

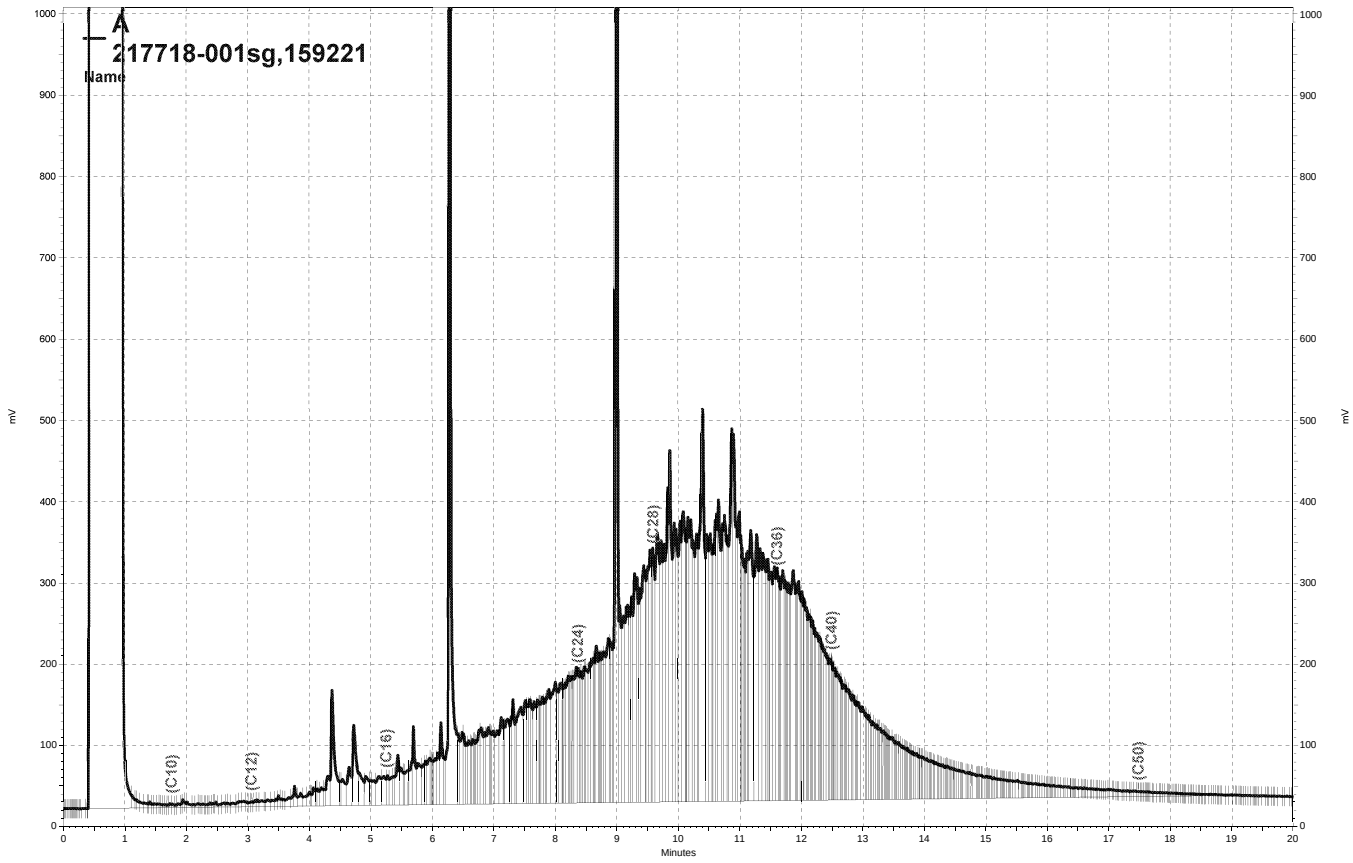
Surrogate	%REC	Limits
o-Terphenyl	92	16-164

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC529370

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.74	73.94	87	3-174	6	54

Surrogate	%REC	Limits
o-Terphenyl	96	16-164

RPD= Relative Percent Difference



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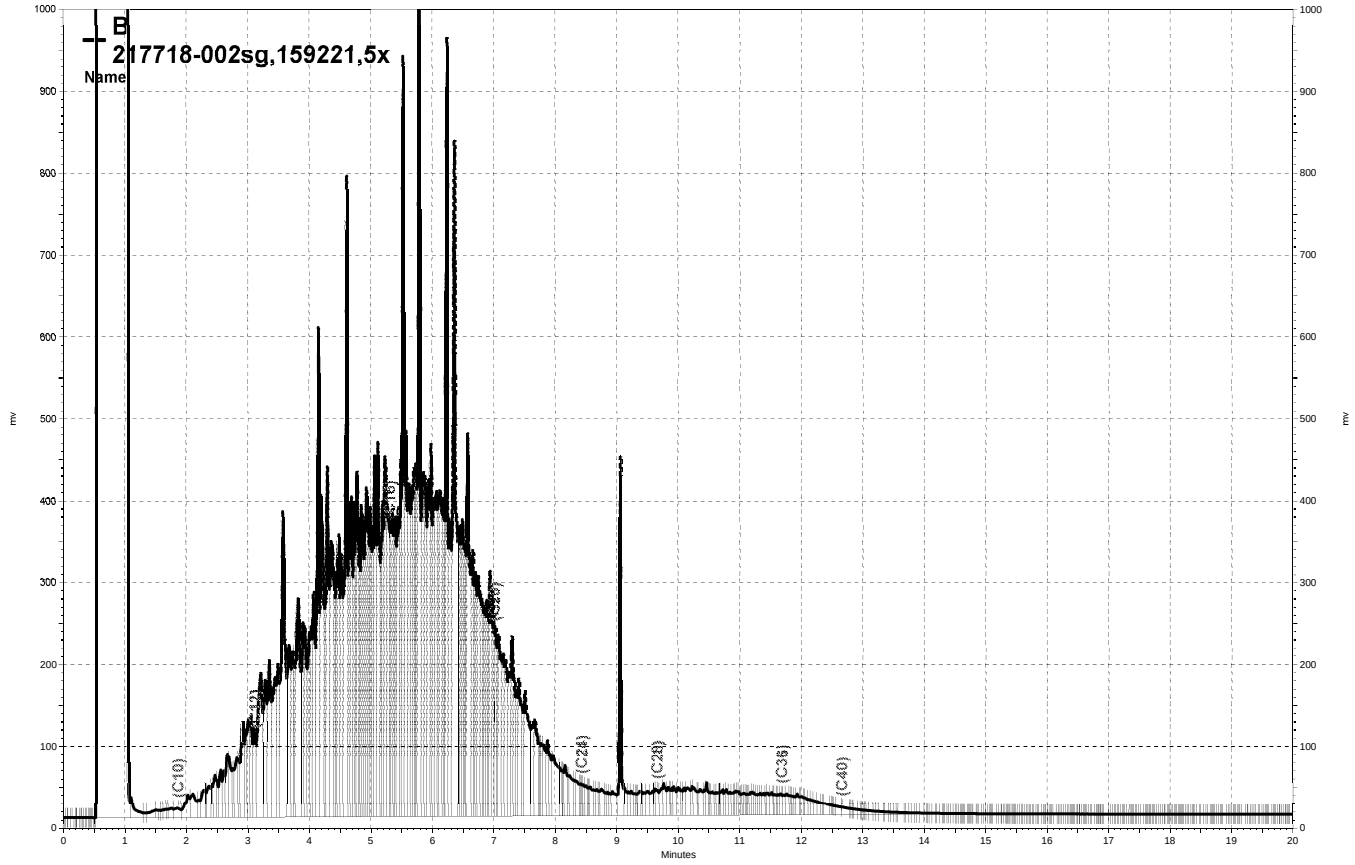

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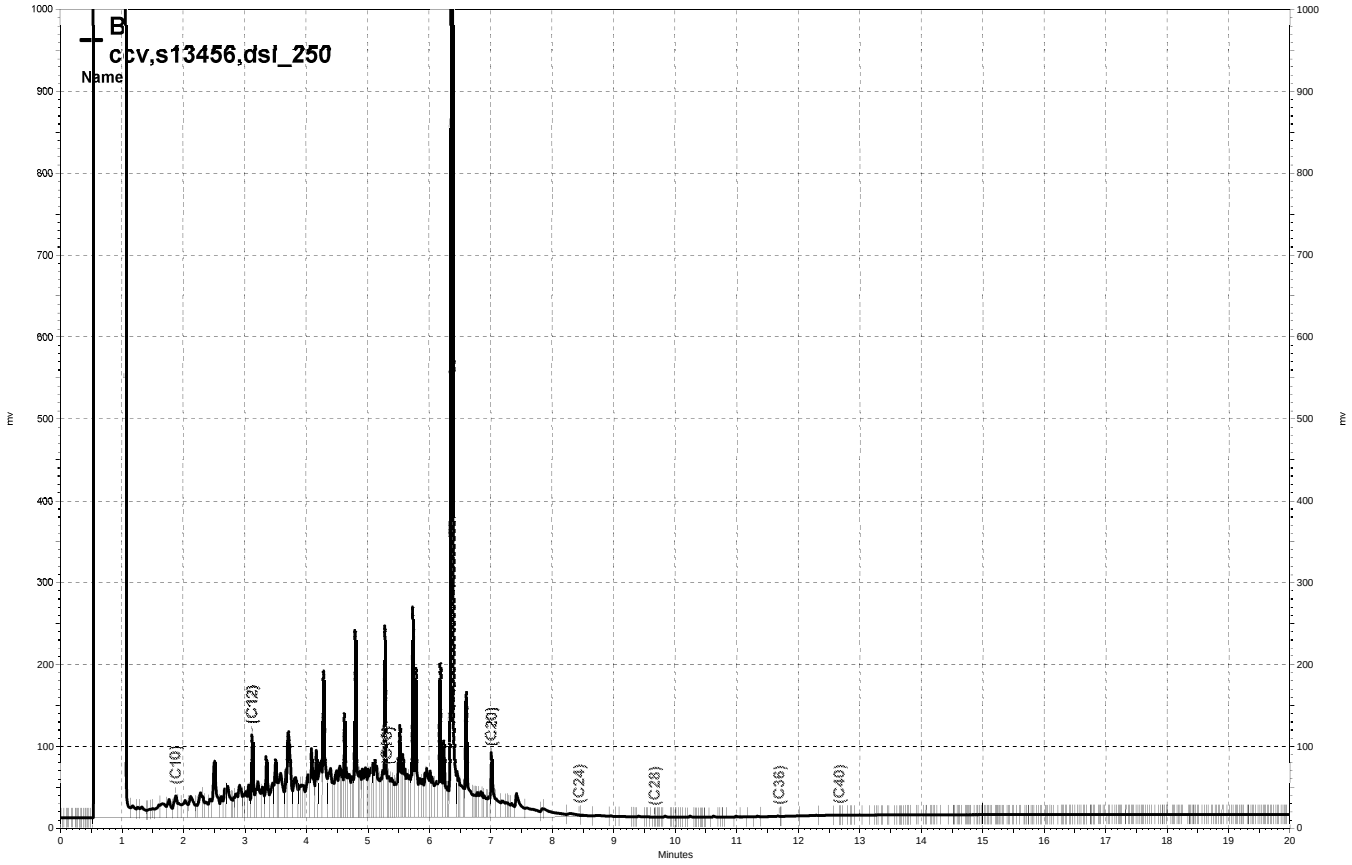

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Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8260B
Field ID:	MW-1R	Diln Fac:	0.9823
Lab ID:	217718-001	Batch#:	159203
Matrix:	Soil	Sampled:	01/11/10
Units:	ug/Kg	Received:	01/13/10
Basis:	as received	Analyzed:	01/18/10

Analyte	Result	RL
MTBE	ND	4.9
Benzene	ND	4.9
Toluene	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	126	54-153
Toluene-d8	101	83-118
Bromofluorobenzene	103	61-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8260B
Field ID:	MW-7R	Diln Fac:	9.804
Lab ID:	217718-002	Batch#:	159203
Matrix:	Soil	Sampled:	01/11/10
Units:	ug/Kg	Received:	01/13/10
Basis:	as received	Analyzed:	01/18/10

Analyte	Result	RL
MTBE	ND	49
Benzene	ND	49
Toluene	ND	49
Ethylbenzene	ND	49
m,p-Xylenes	ND	49
o-Xylene	ND	49

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	54-153
Toluene-d8	101	83-118
Bromofluorobenzene	129	61-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC529312	Batch#:	159203
Matrix:	Soil	Analyzed:	01/18/10
Units:	ug/Kg		

Analyte	Result	RL
MTBE	ND	5.0
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	123	54-153
Toluene-d8	101	83-118
Bromofluorobenzene	102	61-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC529313	Batch#:	159203
Matrix:	Soil	Analyzed:	01/18/10
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	25.04	100	47-136
Benzene	25.00	25.29	101	73-134
Toluene	25.00	24.15	97	72-134
Ethylbenzene	25.00	26.24	105	74-134
m,p-Xylenes	50.00	51.00	102	74-133
o-Xylene	25.00	24.83	99	73-127

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	127	54-153
Toluene-d8	101	83-118
Bromofluorobenzene	100	61-146

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	217718	Location:	Penske
Client:	Stantec	Prep:	EPA 5030B
Project#:	185702145	Analysis:	EPA 8260B
Field ID:	MW-1R	Batch#:	159203
MSS Lab ID:	217718-001	Sampled:	01/11/10
Matrix:	Soil	Received:	01/13/10
Units:	ug/Kg	Analyzed:	01/18/10
Basis:	as received		

Type: MS Diln Fac: 0.9843
Lab ID: QC529362

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.9823	49.21	41.67	85	38-136
Benzene	<0.9823	49.21	46.64	95	53-139
Toluene	<0.9823	49.21	45.80	93	49-139
Ethylbenzene	<0.9823	49.21	46.23	94	38-145
m,p-Xylenes	<0.9823	98.43	92.45	94	38-145
o-Xylene	<0.9823	49.21	45.73	93	38-141

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	54-153
Toluene-d8	99	83-118
Bromofluorobenzene	96	61-146

Type: MSD Diln Fac: 0.9921
Lab ID: QC529363

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	49.60	42.14	85	38-136	0	36
Benzene	49.60	46.01	93	53-139	2	35
Toluene	49.60	44.48	90	49-139	4	33
Ethylbenzene	49.60	44.28	89	38-145	5	36
m,p-Xylenes	99.21	88.34	89	38-145	5	37
o-Xylene	49.60	43.72	88	38-141	5	36

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	54-153
Toluene-d8	99	83-118
Bromofluorobenzene	94	61-146

RPD= Relative Percent Difference

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

Laboratory Job Number 218203
ANALYTICAL REPORT

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

Sample ID	Lab ID
MW-1A	218203-001
MW-2	218203-002
MW-4	218203-003
MW-7A	218203-004
MW-8	218203-005
OW-1	218203-006
OW-2	218203-007
TB	218203-008
DUP-1	218203-009
EB	218203-010

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: 02/18/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**218203**
Client:	**Stantec**
Location:	**725 Julie Ann Way Oakland CA**
Request Date:	**02/08/10**
Samples Received:	**02/08/10**

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 02/08/10. The samples were received cold and intact.

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

Volatile Organics by GC/MS (EPA 8260B):
High RPD was observed for a number of analytes in the BS/BSD for batch 160076; these analytes were not detected at or above the RL in the associated samples. No other analytical problems were encountered.

BLAINE
TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB C&T Berkeley 218203 DHS #

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

CHAIN OF CUSTODY BTS # 100208-Bm1
CLIENT Stantec
SITE 725 Julie Ann Way
Oakland CA

SPECIAL INSTRUCTIONS

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

Nitrate = 48 hr. HOLD TIME

	SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS		TPH-G / BTEX / MTBE (8260B)	EDB / EDC (8260B)	Napthalene (8260B)	Nitrate / Sulfate (300.0)	TPH-D		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	MW-1a	2/8/10	1140	W	5	Mix			X	X			X					
2	MW-2		0940		5				X	X			X					
3	MW-4		1220		5				X	X			X					
4	MW-7a		1145		5				X	X			X					
5	MW-8		1000		5				X	X			X					
6	OW-1		1025		5				X	X			X					
7	OW-2		1050		5				X	X			X					
8	TB		0900		2				X				X					
9	DUP-1		1150		4				X	X			X					
10	EB	↓	1130	↓	4	↓			X	X			X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	2/8/10	1220	R McCarthy

RESULTS NEEDED NO LATER THAN **Standard TAT**

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
R McCarthy	2/8/10	1425		2/8/10	1425
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

intact on ice cold Rc

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 218203 Date Received 2/8/10 Number of coolers 1
Client STANTEC Project 725 JULIE ANN WAY

Date Opened 2/8/10 By (print) M. VILLANUEVA (sign)
Date Logged in ✓ By (print) ✓ (sign) ✓

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

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) 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) 2.7

☐ 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)
If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
11. Are sample labels present, in good condition and complete? ____ (YES) NO
12. Do the sample labels agree with custody papers? ____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? ____ YES (NO)
14. Are the samples appropriately preserved? ____ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? ____ YES (NO) N/A
16. Was the client contacted concerning this sample delivery? ____ YES NO
If YES, Who was called? ____ By ____ Date: ____

COMMENTS
NO CONTAINER RECD FOR THAT FOR TB.
SAMPLE # 1 of 7 VOAs W/ BUBBLE

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/08/10
Units:	ug/L	Received:	02/08/10
Diln Fac:	1.000	Prepared:	02/10/10
Batch#:	159953	Analyzed:	02/11/10

Field ID: MW-1A
Type: SAMPLE
Lab ID: 218203-001

Analyte	Result	RL
Diesel C10-C24	5,600	50

Surrogate	%REC	Limits
o-Terphenyl	90	39-150

Field ID: MW-2
Type: SAMPLE
Lab ID: 218203-002

Analyte	Result	RL
Diesel C10-C24	870 Y	50

Surrogate	%REC	Limits
o-Terphenyl	91	39-150

Field ID: MW-4
Type: SAMPLE
Lab ID: 218203-003

Analyte	Result	RL
Diesel C10-C24	12,000	50

Surrogate	%REC	Limits
o-Terphenyl	110	39-150

Field ID: MW-7A
Type: SAMPLE
Lab ID: 218203-004

Analyte	Result	RL
Diesel C10-C24	560	50

Surrogate	%REC	Limits
o-Terphenyl	95	39-150

Field ID: MW-8
Type: SAMPLE
Lab ID: 218203-005

Analyte	Result	RL
Diesel C10-C24	360 Y	50

Surrogate	%REC	Limits
o-Terphenyl	94	39-150

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/08/10
Units:	ug/L	Received:	02/08/10
Diln Fac:	1.000	Prepared:	02/10/10
Batch#:	159953	Analyzed:	02/11/10

Field ID: OW-1 Lab ID: 218203-006
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	11,000	50

Surrogate	%REC	Limits
o-Terphenyl	100	39-150

Field ID: OW-2 Lab ID: 218203-007
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	10,000	50

Surrogate	%REC	Limits
o-Terphenyl	95	39-150

Field ID: DUP-1 Lab ID: 218203-009
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	5,800	50

Surrogate	%REC	Limits
o-Terphenyl	91	39-150

Field ID: EB Lab ID: 218203-010
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	94	39-150

Type: BLANK Lab ID: QC532285

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	104	39-150

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 #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC532286	Batch#:	159953
Matrix:	Water	Prepared:	02/10/10
Units:	ug/L	Analyzed:	02/11/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,058	82	34-144

Surrogate	%REC	Limits
o-Terphenyl	97	39-150

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	159953
MSS Lab ID:	218234-001	Sampled:	02/09/10
Matrix:	Water	Received:	02/09/10
Units:	ug/L	Prepared:	02/10/10
Diln Fac:	1.000	Analyzed:	02/11/10

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC532287

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	21.48	2,500	2,169	86	21-160

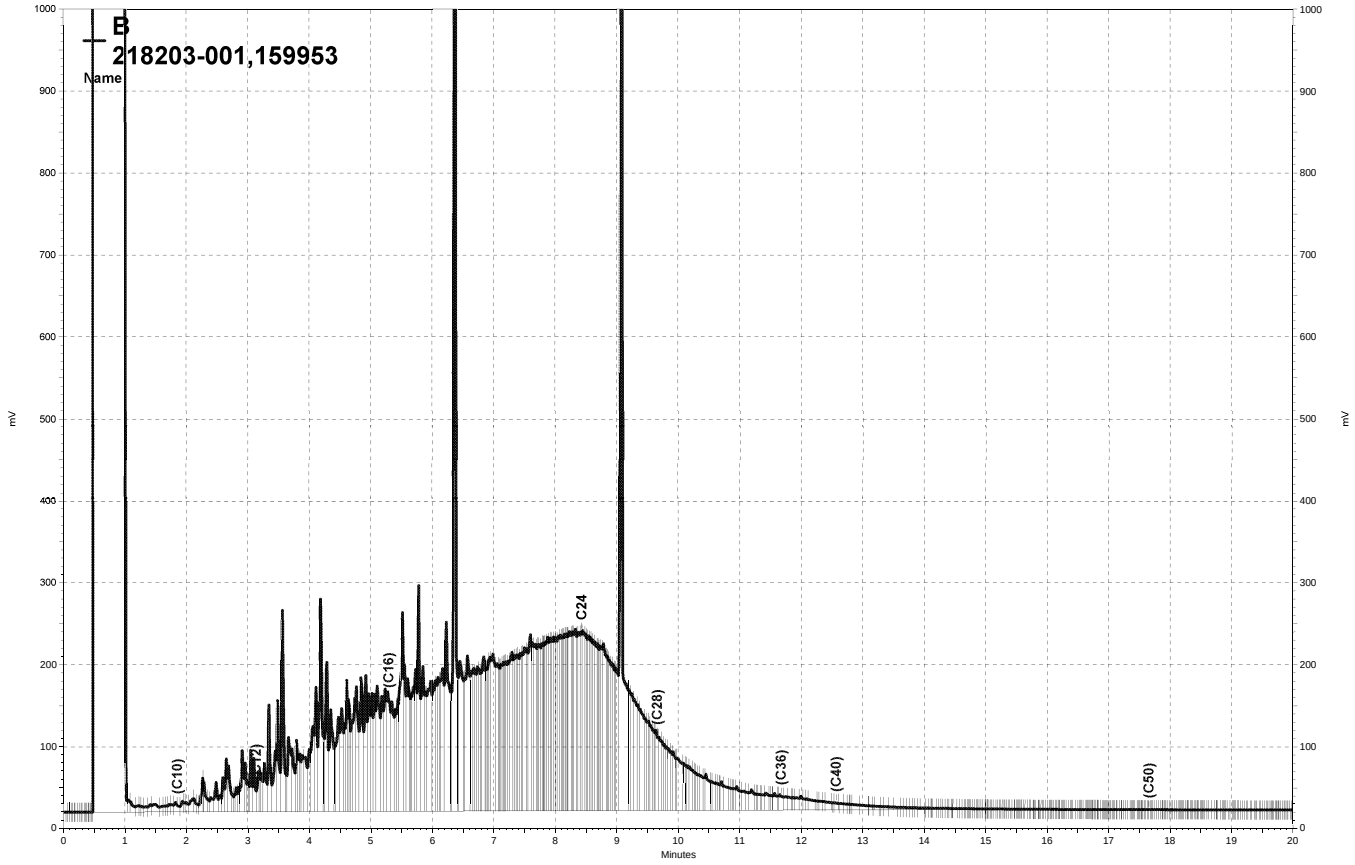
Surrogate	%REC	Limits
o-Terphenyl	102	39-150

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC532288

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,142	85	21-160	1	58

Surrogate	%REC	Limits
o-Terphenyl	101	39-150

RPD= Relative Percent Difference



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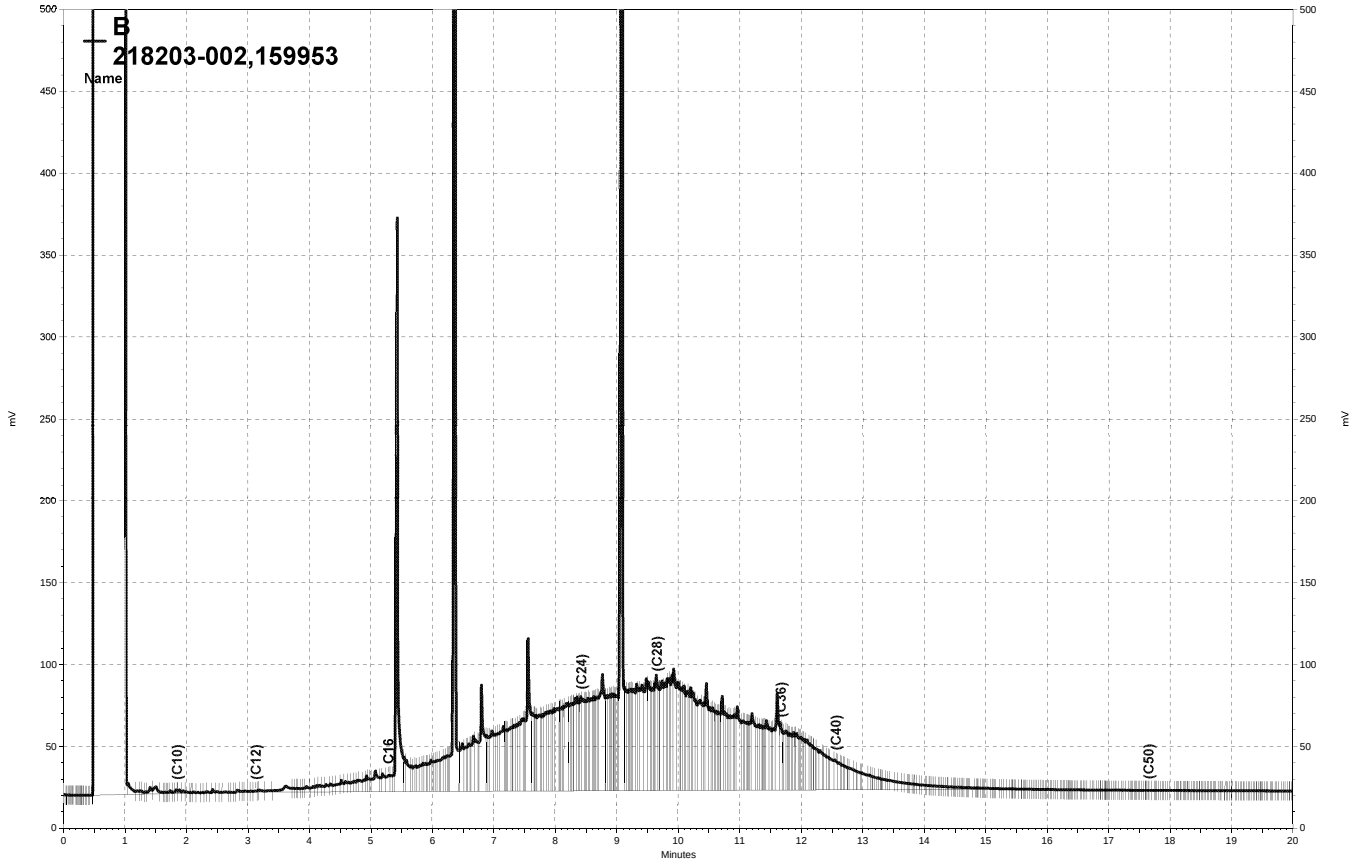

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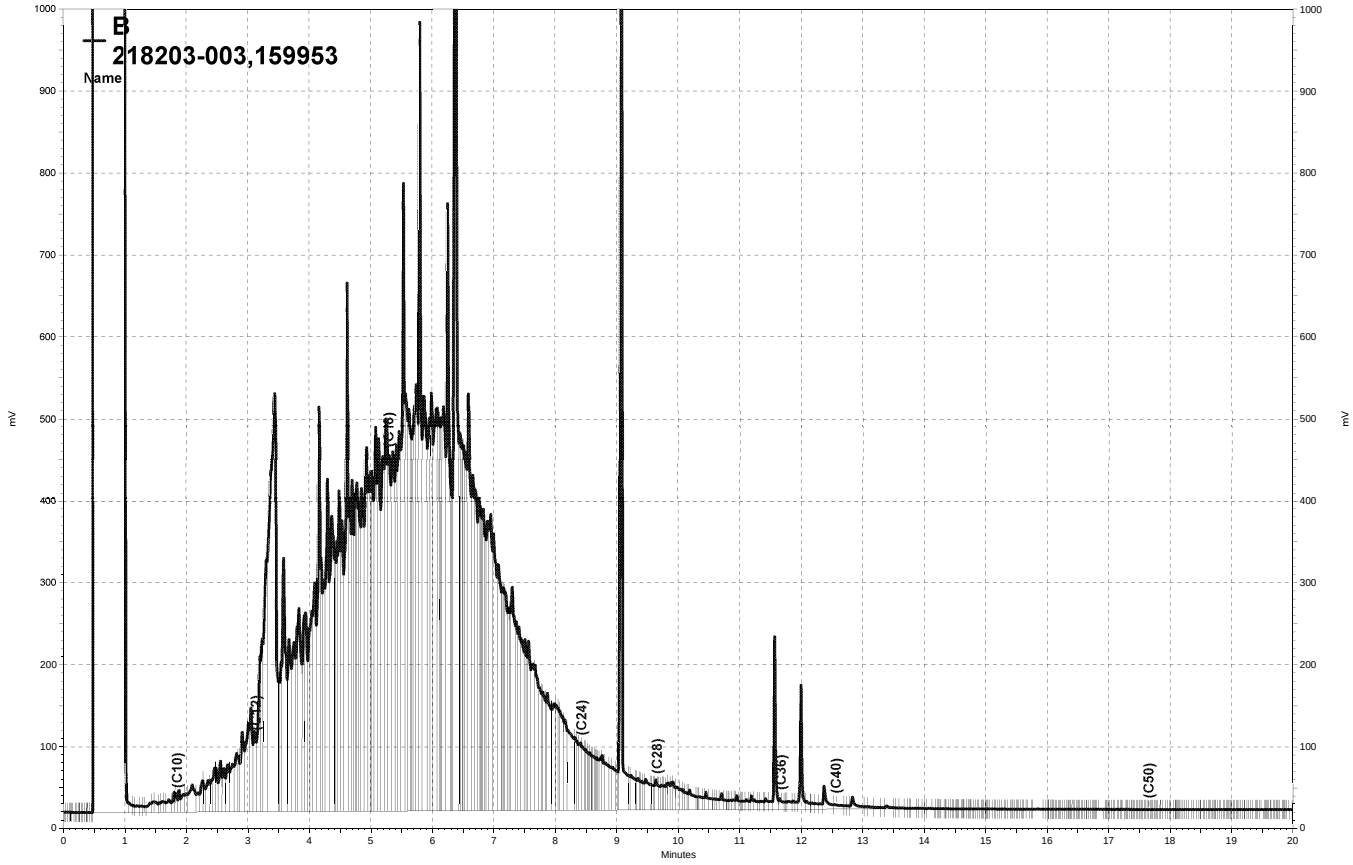

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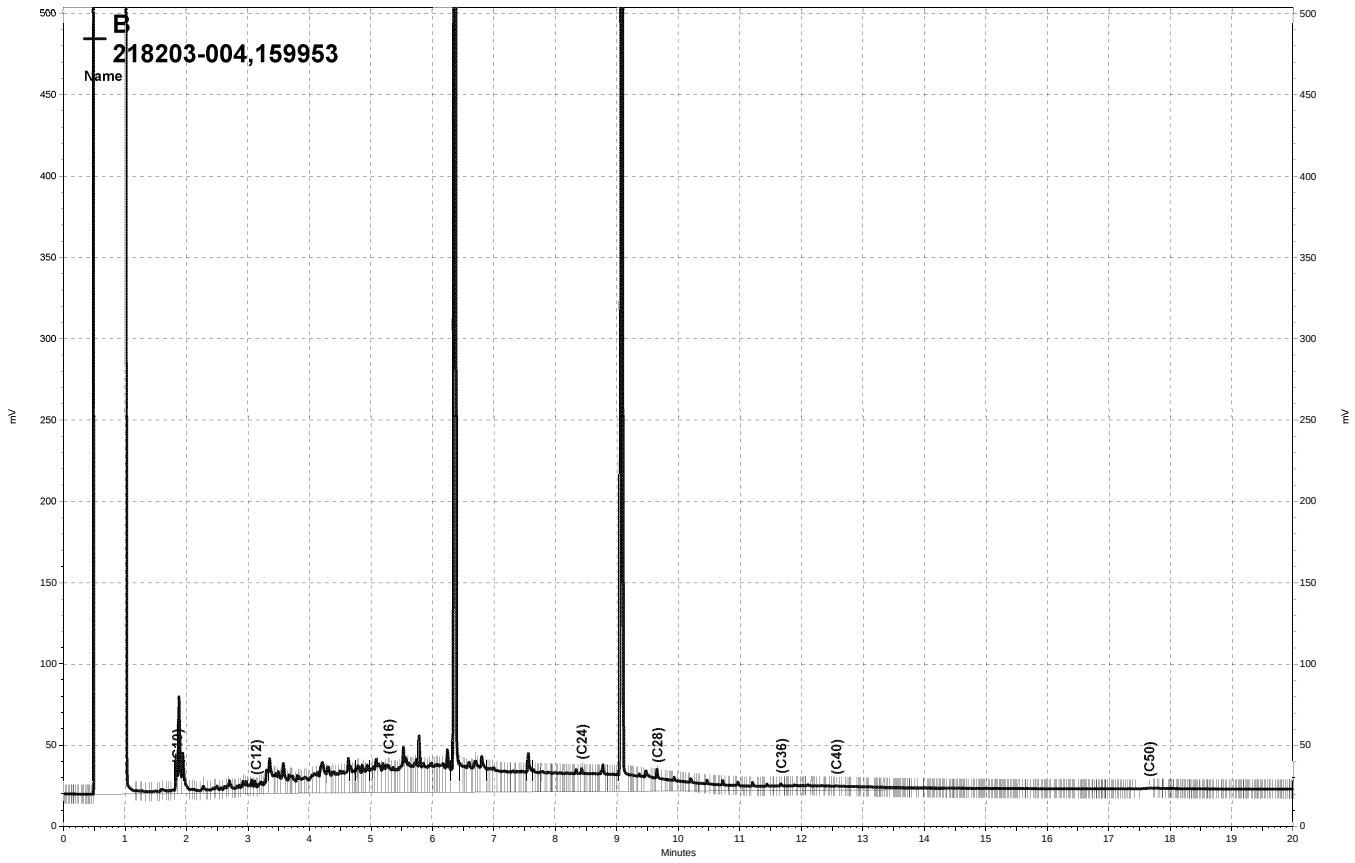

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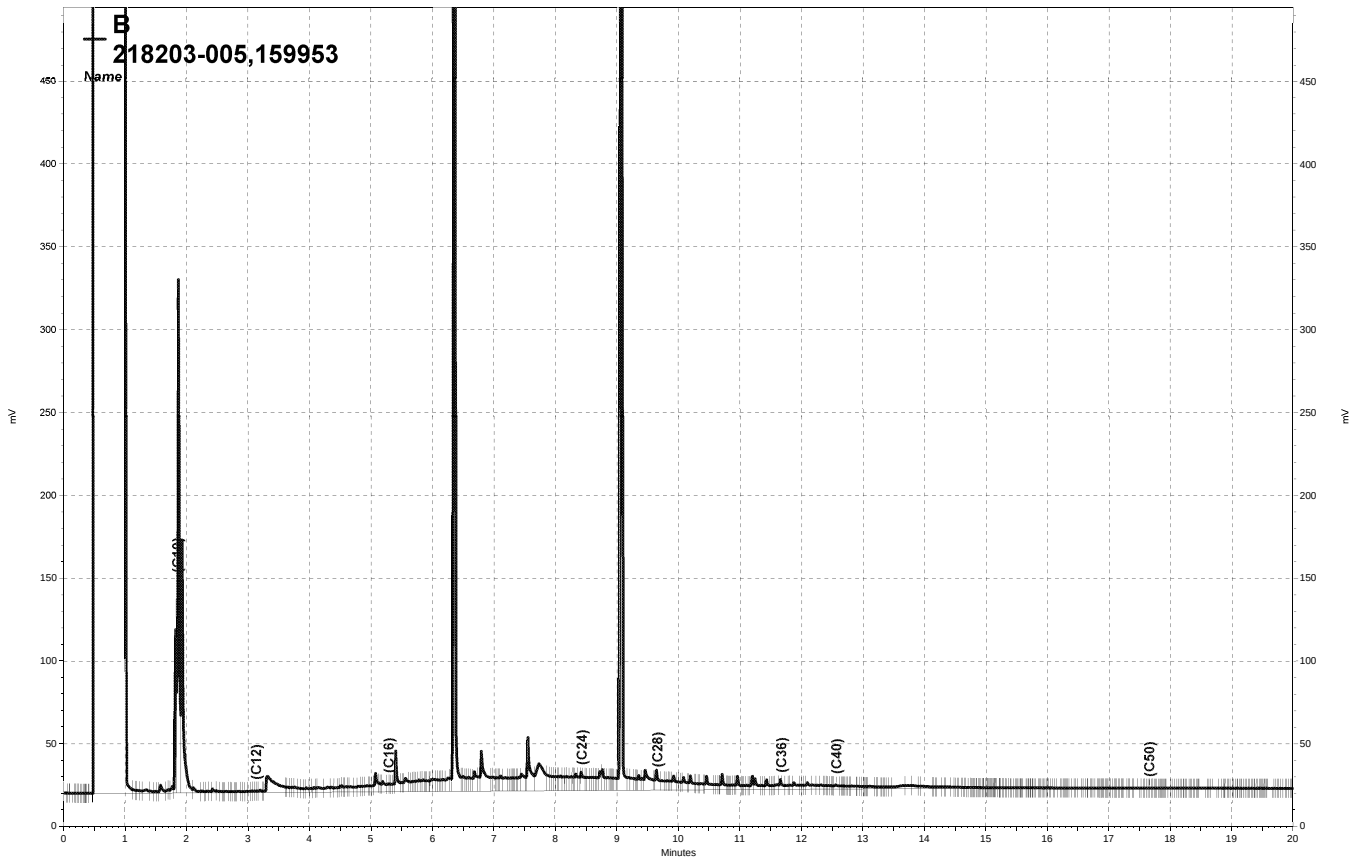

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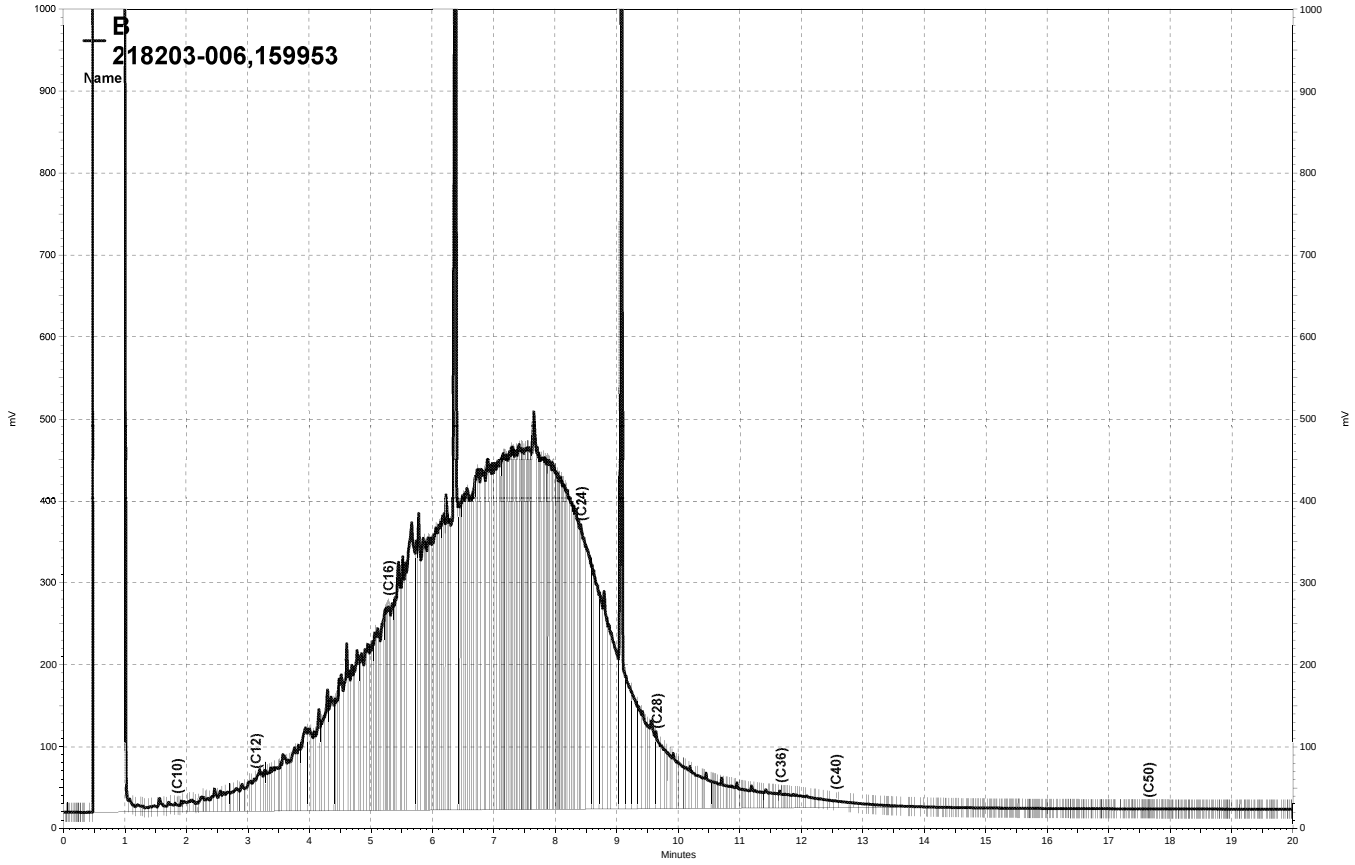

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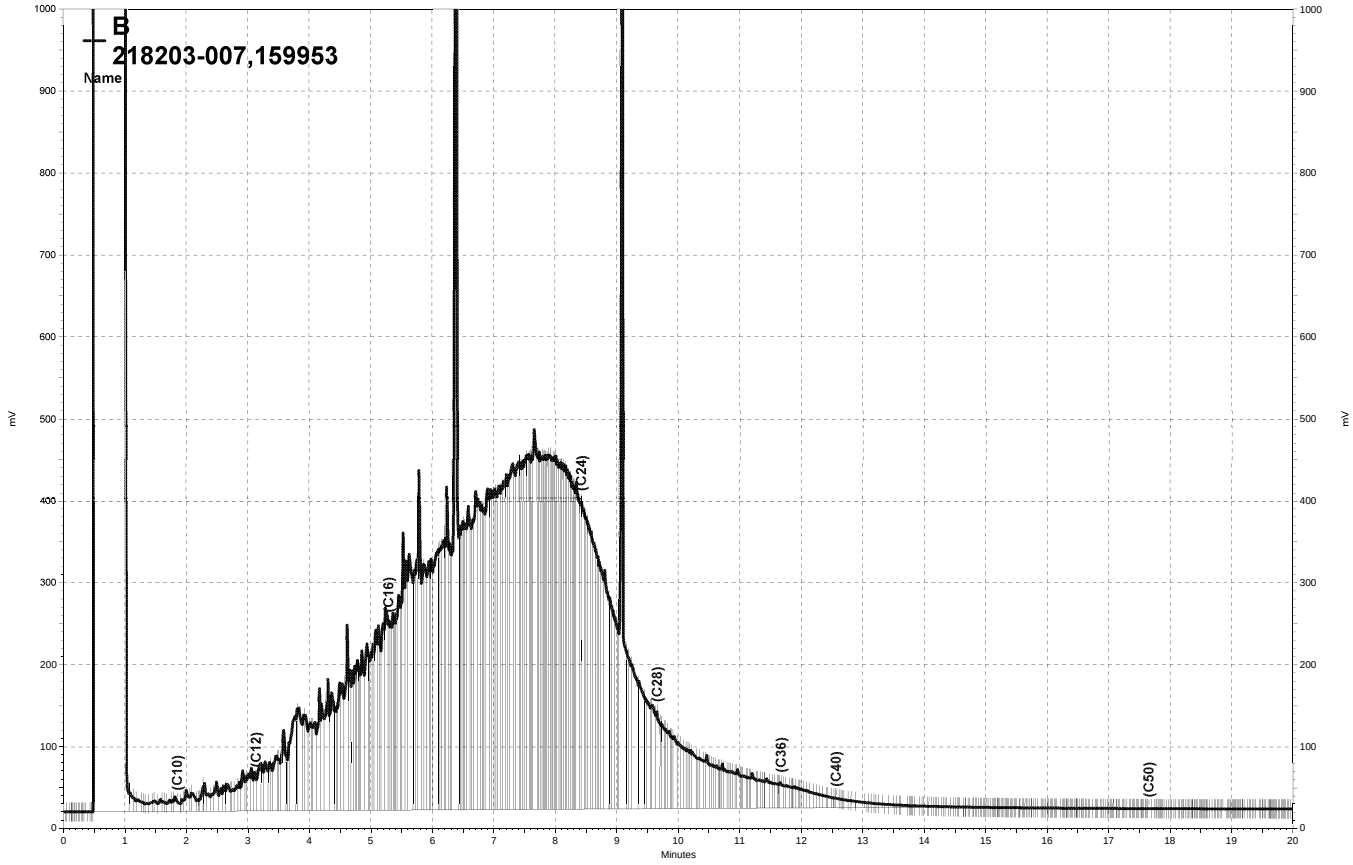

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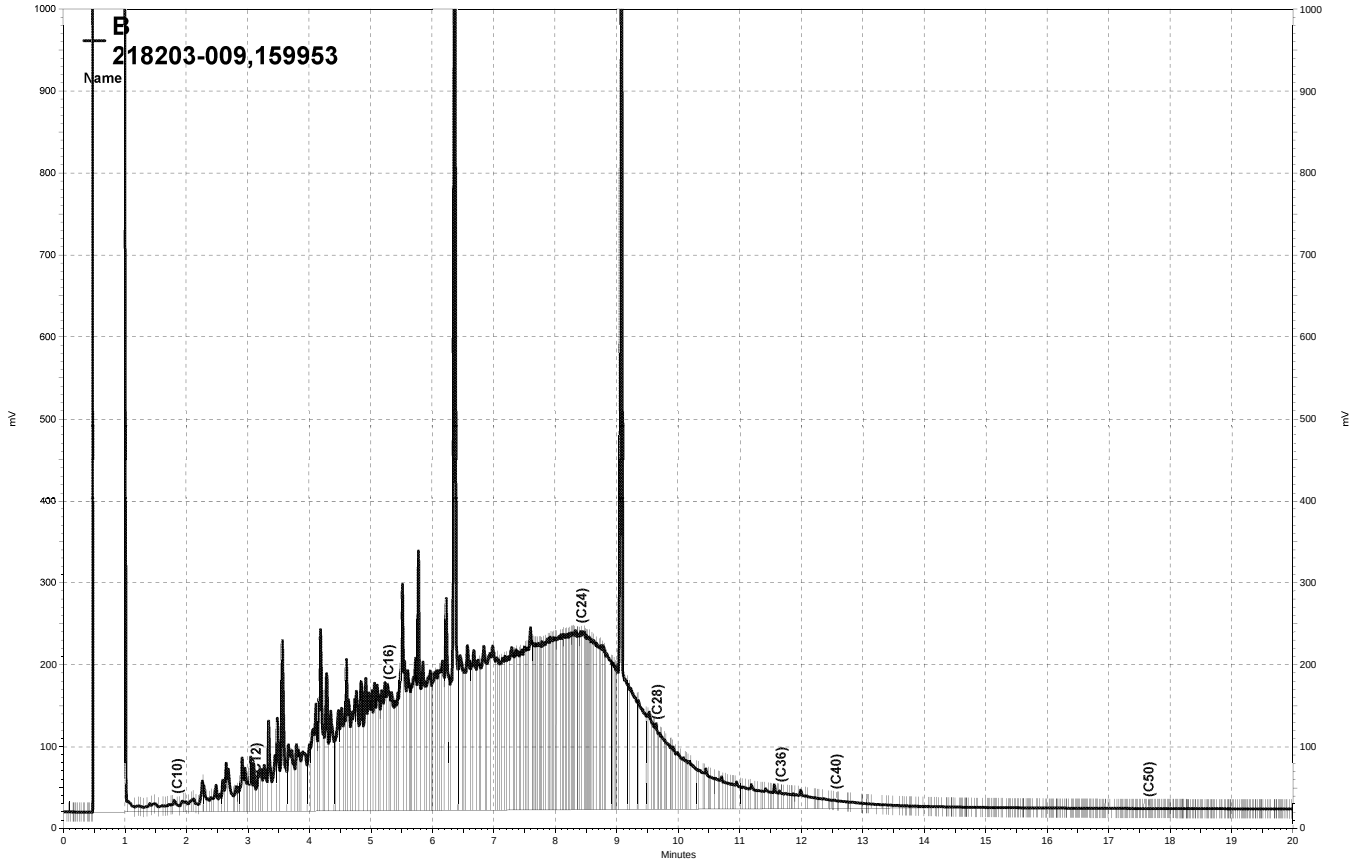

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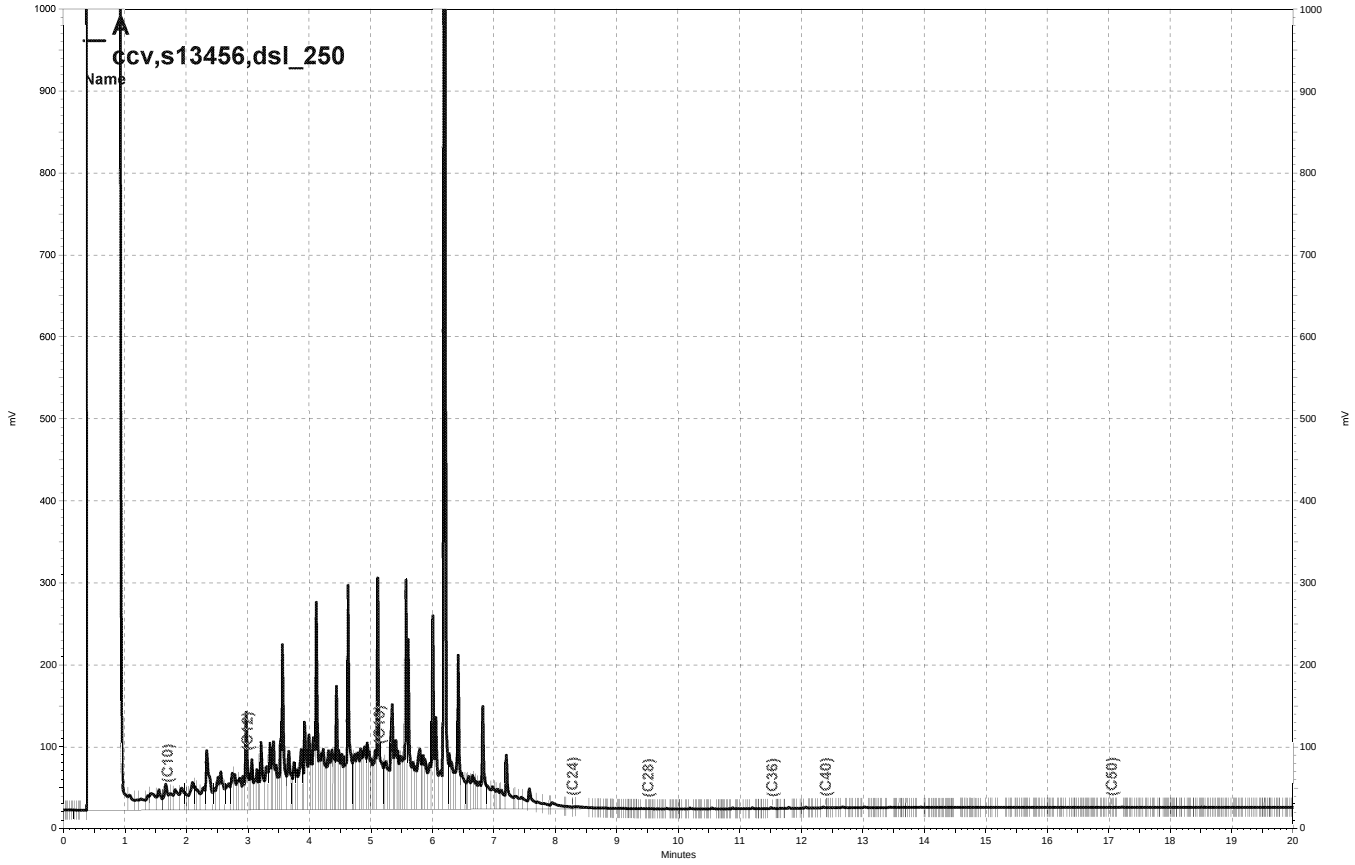

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Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-1A	Batch#:	160123
Lab ID:	218203-001	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	120 Y	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	90	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	160076
Lab ID:	218203-002	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	92	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	160123
Lab ID:	218203-003	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	120 Y	50
MTBE	1.6	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	93	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-7A	Batch#:	160123
Lab ID:	218203-004	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	52 Y	50
MTBE	2.4	0.50
1,2-Dichloroethane	ND	0.50
Benzene	0.63	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	94	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	160123
Lab ID:	218203-005	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	1.7	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-1	Batch#:	160123
Lab ID:	218203-006	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	5.1	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	92	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	OW-2	Batch#:	160123
Lab ID:	218203-007	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	140 Y	50
MTBE	4.9	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	TB	Batch#:	160076
Lab ID:	218203-008	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	94	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	160123
Lab ID:	218203-009	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	110 Y	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	95	80-127

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

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	EB	Batch#:	160076
Lab ID:	218203-010	Sampled:	02/08/10
Matrix:	Water	Received:	02/08/10
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	91	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC532760	Batch#:	160076
Matrix:	Water	Analyzed:	02/16/10
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	93	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160076
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532761

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	21.44	86	61-123
1,2-Dichloroethane	25.00	24.23	97	66-141
Benzene	25.00	23.20	93	81-122
Toluene	25.00	24.01	96	82-122
1,2-Dibromoethane	25.00	26.86	107	81-122
Ethylbenzene	25.00	24.83	99	86-125
m,p-Xylenes	50.00	49.73	99	83-127
o-Xylene	25.00	24.97	100	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	96	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	91	80-127

Type: BSD Lab ID: QC532762

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	18.72	75	61-123	14 *	11
1,2-Dichloroethane	25.00	23.23	93	66-141	4	12
Benzene	25.00	22.22	89	81-122	4	12
Toluene	25.00	22.68	91	82-122	6	12
1,2-Dibromoethane	25.00	26.01	104	81-122	3	11
Ethylbenzene	25.00	23.74	95	86-125	4	12
m,p-Xylenes	50.00	48.34	97	83-127	3	13
o-Xylene	25.00	23.98	96	81-122	4	12

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	95	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	91	80-127

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160076
Units:	ug/L	Analyzed:	02/16/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532763

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,008	101	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	96	88-113
Bromofluorobenzene	90	80-127

Type: BSD Lab ID: QC532764

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	953.9	95	74-124	5	13

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	98	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	92	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC532968	Batch#:	160123
Matrix:	Water	Analyzed:	02/17/10
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	99	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	93	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC532969	Batch#:	160123
Matrix:	Water	Analyzed:	02/17/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	21.61	86	61-123
1,2-Dichloroethane	25.00	25.23	101	66-141
Benzene	25.00	24.53	98	81-122
Toluene	25.00	25.22	101	82-122
1,2-Dibromoethane	25.00	27.55	110	81-122
Ethylbenzene	25.00	26.28	105	86-125
m,p-Xylenes	50.00	52.80	106	83-127
o-Xylene	25.00	26.36	105	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	160123
Units:	ug/L	Analyzed:	02/17/10
Diln Fac:	1.000		

Type: BS Lab ID: QC532970

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	999.9	100	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	96	81-124
1,2-Dichloroethane-d4	100	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	93	80-127

Type: BSD Lab ID: QC532971

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	969.2	97	74-124	3	13

Surrogate	%REC	Limits
Dibromofluoromethane	95	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	95	88-113
Bromofluorobenzene	91	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	218203	Location:	725 Julie Ann Way Oakland CA
Client:	Stantec	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	160123
MSS Lab ID:	218274-001	Sampled:	02/11/10
Matrix:	Water	Received:	02/11/10
Units:	ug/L	Analyzed:	02/18/10
Diln Fac:	1.000		

Type: MS Lab ID: QC532995

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.1000	25.00	19.72	79	59-128
1,2-Dichloroethane	<0.1000	25.00	25.34	101	64-149
Benzene	<0.1000	25.00	24.76	99	75-130
Toluene	<0.1000	25.00	25.34	101	79-129
1,2-Dibromoethane	<0.1000	25.00	26.72	107	80-127
Ethylbenzene	<0.1022	25.00	25.71	103	81-130
m,p-Xylenes	<0.1357	50.00	50.72	101	77-133
o-Xylene	<0.1322	25.00	25.41	102	82-123

Surrogate	%REC	Limits
Dibromofluoromethane	93	81-124
1,2-Dichloroethane-d4	96	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	94	80-127

Type: MSD Lab ID: QC532996

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	18.73	75	59-128	5	12
1,2-Dichloroethane	25.00	23.68	95	64-149	7	13
Benzene	25.00	23.17	93	75-130	7	11
Toluene	25.00	23.17	93	79-129	9	12
1,2-Dibromoethane	25.00	25.14	101	80-127	6	11
Ethylbenzene	25.00	23.94	96	81-130	7	12
m,p-Xylenes	50.00	47.04	94	77-133	8	12
o-Xylene	25.00	23.71	95	82-123	7	11

Surrogate	%REC	Limits
Dibromofluoromethane	94	81-124
1,2-Dichloroethane-d4	97	73-140
Toluene-d8	97	88-113
Bromofluorobenzene	92	80-127

RPD= Relative Percent Difference

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Date : 17-FEB-2010 21:58

Client ID: DYNA P&T

Instrument: MSVOA10.i

Sample Info: S,218203-001

Operator: VOA

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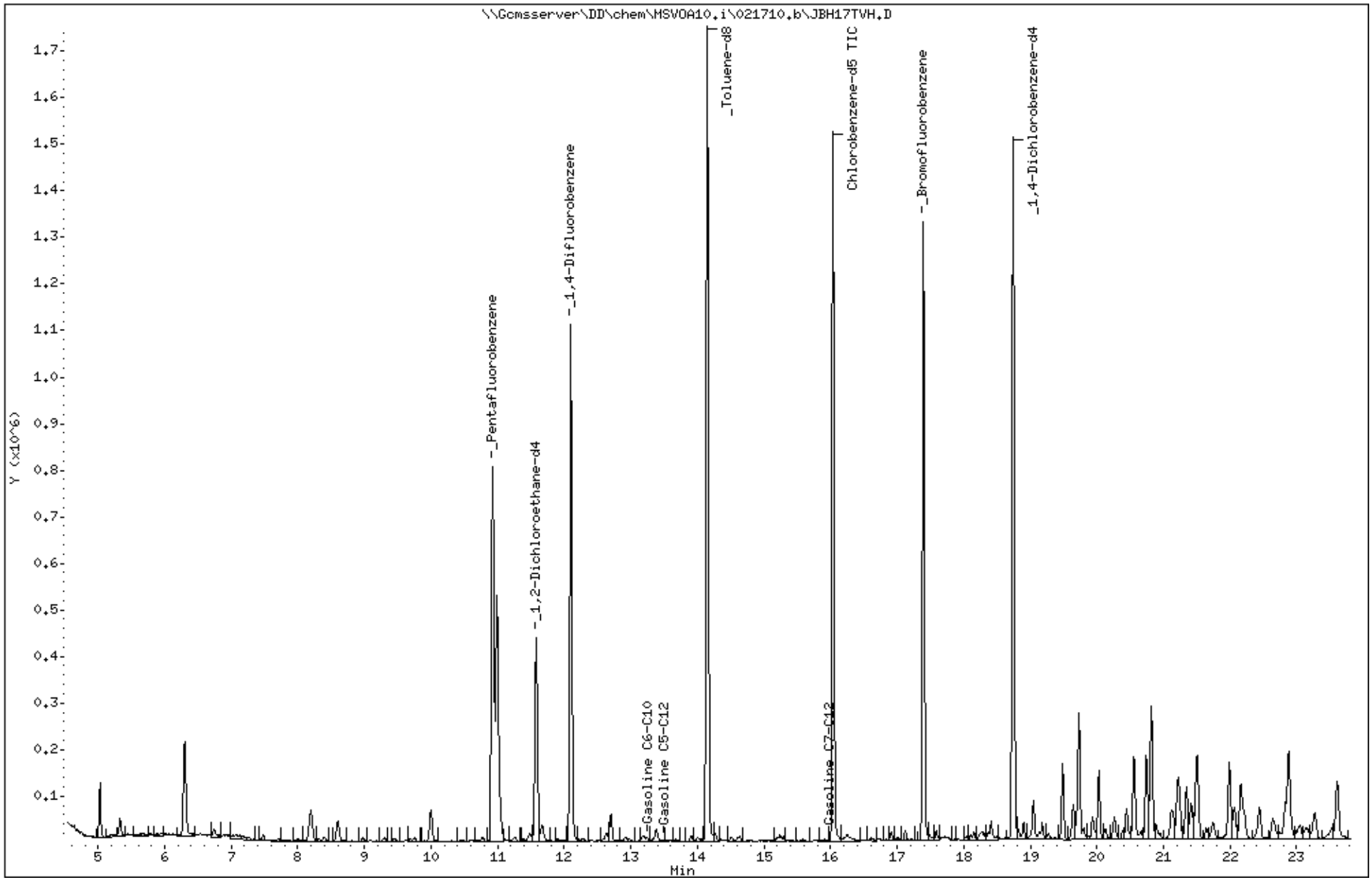
Column diameter: 2.00



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Sample Info: S,218203-003

Operator: VOA

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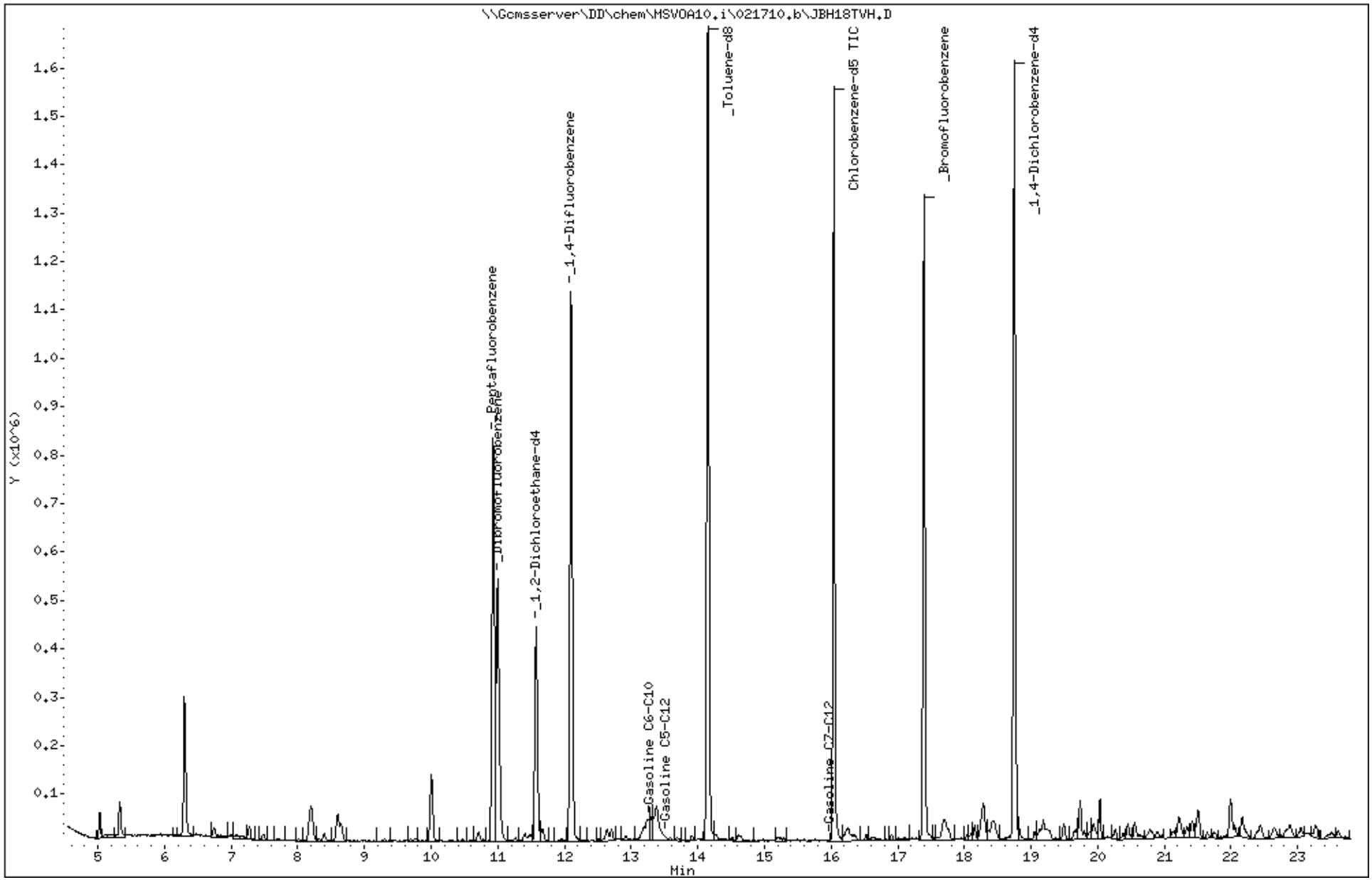

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Date : 17-FEB-2010 23:08

Client ID: DYNA P&T

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Operator: VOA

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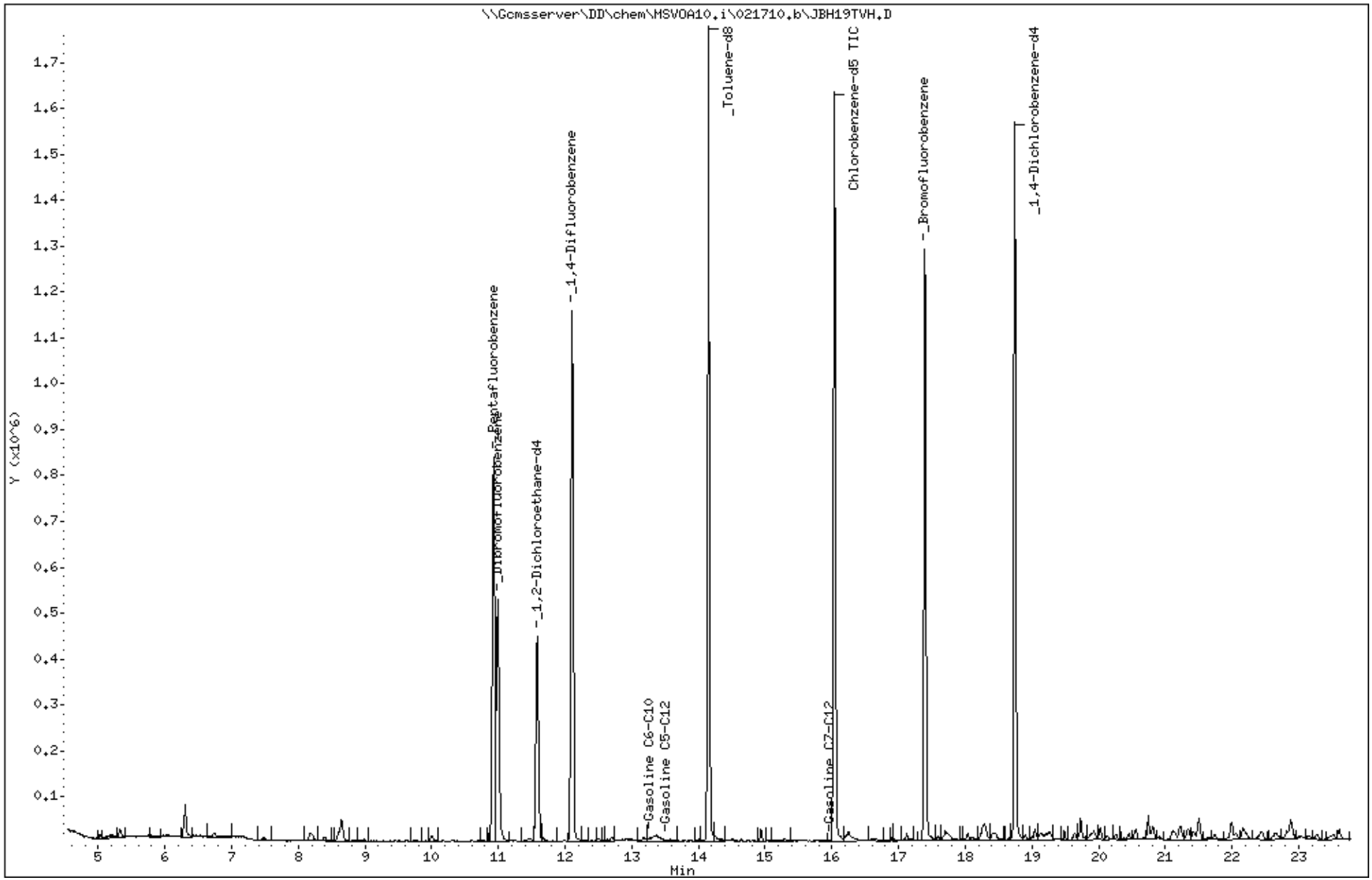

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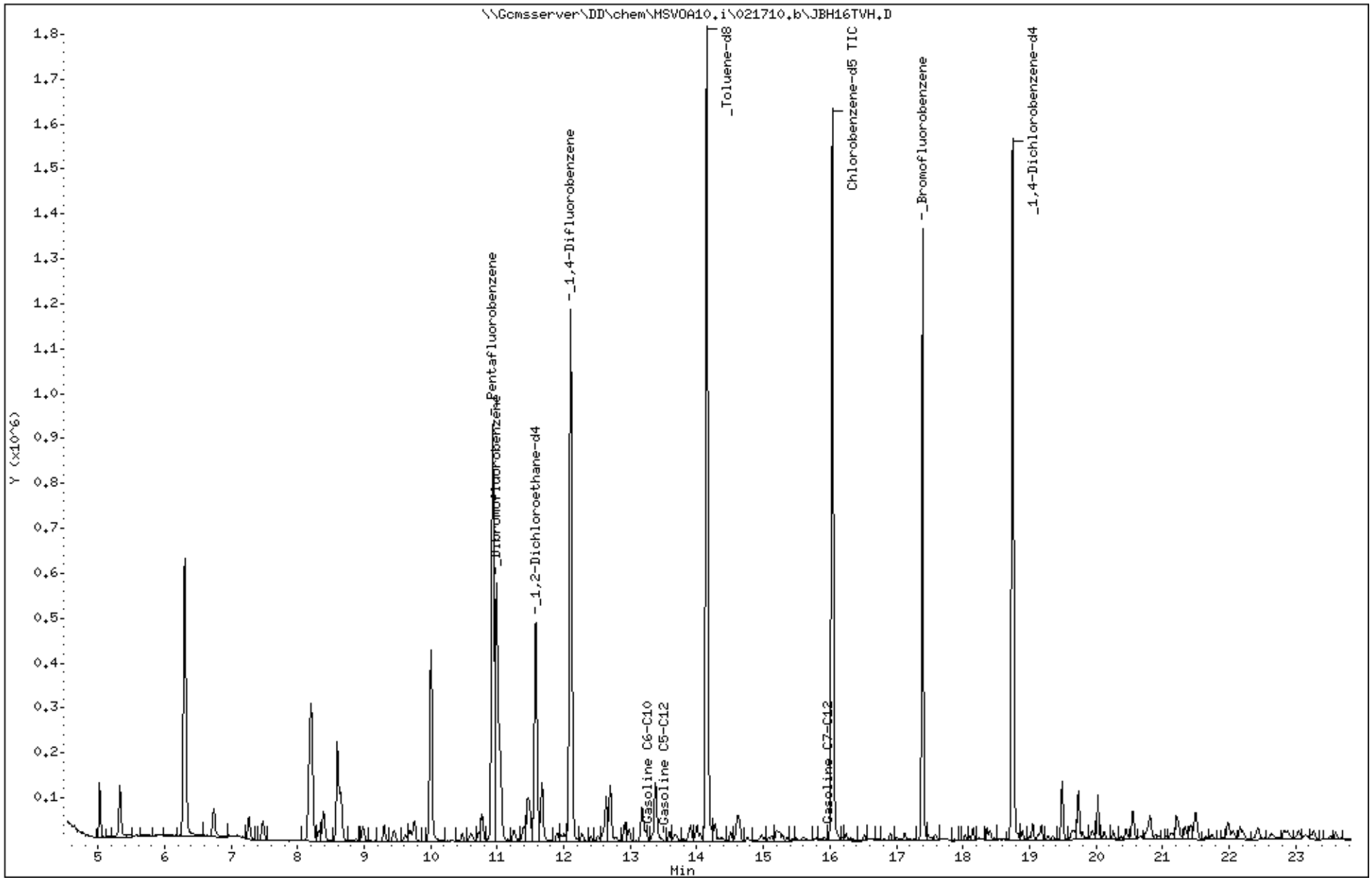
Instrument: MSVOA10.i

Sample Info: S,218203-007

Operator: VOA

Column phase:

Column diameter: 2.00



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Date : 17-FEB-2010 23:43

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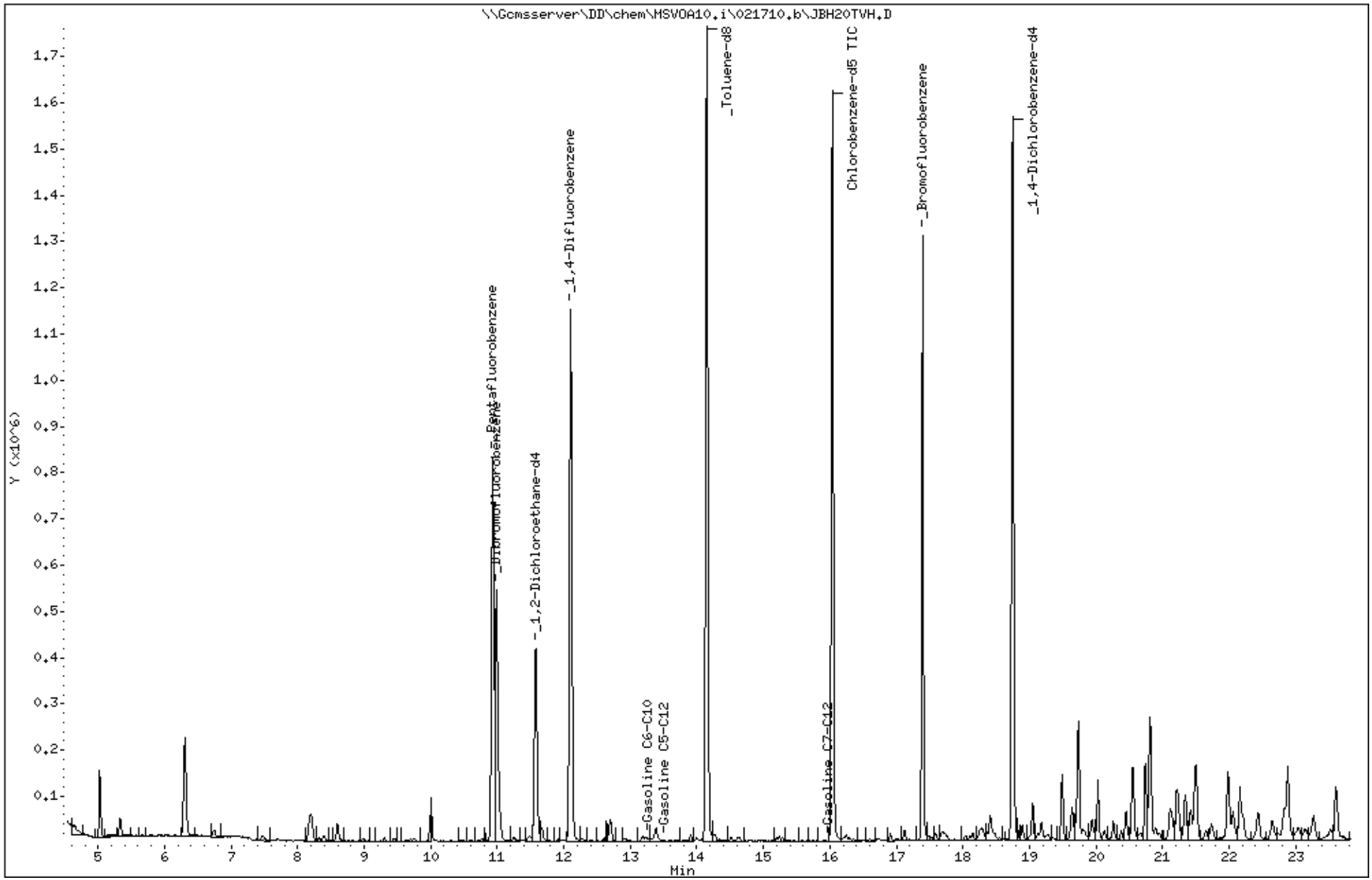
Sample Info: S,218203-009

Operator: VOA

Column phase:

Column diameter: 2.00



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Date : 16-FEB-2010 16:58

Client ID: DYNA P&T

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Sample Info: CCV/BS,QC532763,160076

Operator: VOA

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