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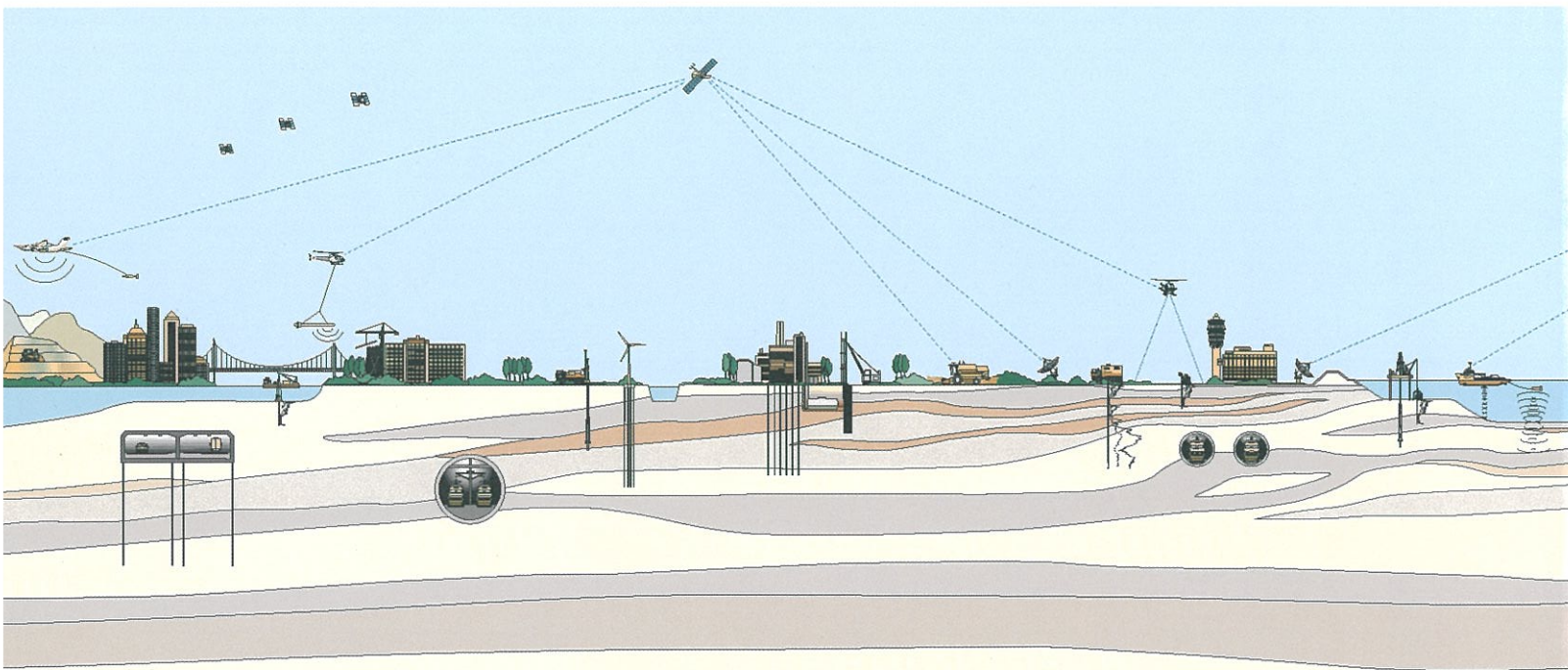
**DECEMBER 2006 GROUNDWATER MONITORING
2801 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

StID 23

Prepared for:
ALAMEDA COUNTY ENVIRONMENTAL HEALTH

FEBRUARY 2007

Fugro Project No. 838.006



February 13, 2007
Project No. 838.006

Alameda County Environmental Health
1161 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Attention: Mr. Donald Hwang, Hazardous Materials Specialist

Subject: December 2006 Groundwater Monitoring Report, 2801 MacArthur Boulevard,
Oakland, California, StID Number 23

Dear Mr. Hwang:

Please find attached Fugro West, Inc.'s, report documenting the December 2006 Groundwater Monitoring Event at 2801 MacArthur Boulevard in Oakland, California (Site). This monitoring event was conducted in general accordance with the Alameda County Environmental Health (ACEH) letter dated July 28, 2005, which requested resumption of groundwater monitoring and the Additional Site Investigation, completed by Fugro and presented in our report dated July 2006. Should you have any questions, comments, or require additional information, please do not hesitate to contact us at (510) 268-0461.

Sincerely,
FUGRO WEST, INC.



Obi Nzewi
Obi Nzewi
Project Geologist

Jeriann Alexander

Jeriann Alexander, P.E., R.E.A.
Civil Engineer 40469 (exp. 3/31/07)
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ON/JNA:ej

Copies Submitted: (1) Addressee
(1) Aniko Molnar
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APPENDIX A: WELL SAMPLING FORMS, LABORATORY REPORTS AND CHAIN OF
CUSTODY DOCUMENTS



LIST OF ACRONYMS AND ABBREVIATIONS

ACEH	Alameda County Environmental Health
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
DCA	1,2-Dichloroethane, also know as EDC
DIPE	Di-isopropyl ether
EDB	1,2-Dibromoethane
EDC	1,2-Dichloroethane
ETBE	ethyl tert-butyl ether
ESLs	Environmental Screening Levels
mg/kg	milligrams per kilogram = ppm
MCL	maximum contaminant Levels
MTBE	Methyl tert butyl ether
OVM	organic vapor meter
ppm	parts per million
QA/QC	Quality Assurance/Quality Control
RWQCB	Regional Water Quality Control Board
RPD	Relative Percentage Difference
TBA	tert-butanol
TAME	tert amyl methyl ether
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons as diesel fuel
TPHg	total petroleum hydrocarbons as gasoline
TPHmo	total petroleum hydrocarbons as motor oil
µg/kg	micrograms per kilogram
µg/l	micrograms per liter
ULR	Urban Land Redevelopment
USA	Underground Services Alert
UST	underground storage tank
USCS	Unified Soil Classification System





1.0 INTRODUCTION

With this report, Fugro West, Inc., (Fugro) presents the results of the second consecutive semi-annual groundwater-monitoring event conducted at 2801 MacArthur Boulevard in Oakland, California (Site). The Site location is shown on the vicinity map (Plate 1). During this event, Fugro purged and sampled six wells across the Site. Monitoring well locations are presented on Plate 2. Fugro was retained by the APA Fund to conduct this event and prepare a report documenting the findings of the event.

2.0 SITE DESCRIPTION

The Site occupies the western third of the parcel bounded by MacArthur Boulevard to the north, Coolidge Avenue to the west, Georgia Street to the south, and residential properties to the east. Remnants of a former gasoline service station, including the station building and canopy, occupy the Site. Currently, the station building is being used by an auto repair business. The eastern portion of the parcel is occupied by a strip mall shopping center. Asphalt concrete paved parking areas occupy the open portions of the parcel. The parcel is commercially zoned, and surrounding properties are primarily commercial; however, residential structures exist northwest along Coolidge Avenue, south and southwest of the parcel across Georgia Street.

The Site is located within an upland area near the western flank of the Oakland Hills. The topography of the area is characterized by rolling terrace deposits. The Site is underlain by interbedded alluvial soils comprising stiff to very hard sandy clays, clayey and sandy silts, dense clayey sands and gravels.

Historical groundwater depths have ranged from approximately 21 to 41 feet below ground surface (bgs). The groundwater flow direction based on historical data has consistently been to the south and southeast. Based on the most recent groundwater-monitoring event (December 2006), the depth to groundwater ranged from approximately 26 to 35 feet bgs, and the groundwater flow direction was towards the south and southwest. The current data is consistent with the historical range in depth to groundwater and flow directions.

3.0 OVERVIEW OF UST REMOVAL, REMEDIATION, AND INVESTIGATIONS

In May 1989, three underground storage tanks (USTs) and associated fuel dispensing equipment were removed from the Site (Plate 2). Approximately 435 cubic yards of fuel-impacted soils were also subsequently excavated, and removed from the Site and clean fill was replaced into the resulting excavation. Groundwater monitoring performed at the Site between 1990 and 1996 showed that a dissolved gasoline plume had migrated about 150 feet down gradient from the source area. Subsurface Consultants, Inc., (SCI) (a wholly-owned subsidiary of Fugro West, Inc.) performed a Tier 2 Risk Assessment (October 28, 1997), which indicated that the impacted material onsite appeared to pose no significant risk to human health or the environment considering the commercial use of the property.



Following discussions with ACEH regarding their concerns with respect to a lack of data in the area of the former pump islands; SCI prepared a Work Plan (April 7, 1998) to perform an additional subsurface investigation to evaluate soil and soil gas concentrations in the area of the former Boring B-9 and the pump islands. Results of the field investigation presented in the SCI report dated February 1, 1999, suggested that soil impacts in the area of the former waste oil tank had decreased as a result of source removal and ongoing natural degradation; however, residual soils containing elevated concentrations of gasoline and BTEX still remained in place below the former pump island area.

SCI prepared a Corrective Action Plan (CAP) dated August 13, 1999, which was approved by the ACEH in their letter dated August 20, 1999. Remedial actions, including excavation of impacted soils north of the former station building and in the vicinity of the former pump islands, were implemented in November 2000 by WRS Consultants, and observed by Chaney, Walton and McCall LLC. Review of reports documenting remediation suggests the following:

- Approximately 800 cubic yards of impacted soil to a depth of 15 to 18 feet bgs was excavated and removed from the area north of the former station building as shown on Plate 2.
- The resulting excavation was backfilled with clean, imported soil.
- Piezometer P-3 was decommissioned during remediation activities in 2000.

It was subsequently observed that the backfilled area failed to meet the required compaction specifications resulting in subsidence of the former excavation area. In 2001, Geomatrix was retained to observe the re-excavation and re-compaction of imported materials in the excavation area north of the existing building. Geomatrix (January 2, 2002) confirmed that the previous excavation measured approximately 30 feet by 50 feet in plan dimension and extended to a depth of between 15 to 18 feet bgs.

In June 2005, Fugro was retained by The APA Fund to participate in discussions with the ACEH and representatives of The APA Fund regarding Site conditions, regulatory concerns, and future redevelopment plans. In their letter dated July 2005, ACEH requested a Work Plan for supplemental soil and groundwater characterization, including implementation of groundwater monitoring for Site wells.

Fugro prepared a Work Plan to address ACEH requirements for additional site study. In our Work Plan dated October 11, 2005, Fugro proposed the following:

- Locate and rehabilitate existing monitoring wells onsite;
- Decommission monitoring well M-3 located approximately 160 feet east of the former tank area;
- Advance five to eight borings, to facilitate collection of soil and grab groundwater samples, and;
- Conduct two semi-annual groundwater monitoring events;





In their March 31, 2006, letter, ACEH approved Fugro's Work Plan on condition that additional soil samples be collected and analyzed at changes in lithology. Fugro completed the investigation in the summer of 2006. Results of our additional site investigation and first of two scheduled groundwater monitoring were presented in our July 2006 report. We have not received any comments, correspondence or acknowledgement from ACEH following completion of this phase of investigation.

4.0 FIELD ACTIVITIES

Fugro conducted this semi-annual monitoring event on December 19 and 20, 2006. Prior to sampling, the presence of free product was checked and the depth to groundwater was measured in six wells (P-1, P-2, M-1, M-4, M-5, and M-6). Fugro's field geologist noticed hydrocarbon odor during purging and sampling of monitoring well P-2; however, no free product was observed. No free product was observed in any of the remaining wells. Each well was purged of at least 3 well casing volumes while monitoring dissolved oxygen, pH, and conductivity. Each well was allowed to recharge to approximately 80 percent of the measured pre-purge groundwater elevation prior to sample collection. Groundwater samples were collected using clean disposable bailers and decanted into laboratory prepared containers. Samples were stored in an ice-chilled chest pending delivery to the chemical testing laboratory.

The samples for this event were submitted under appropriate chain-of-custody documents to Curtis & Tompkins, Ltd., a laboratory certified by the State of California Department of Health Services for hazardous waste and water testing. A sample from each well was analyzed for the following constituents:

- Total volatile hydrocarbons as gasoline (TVHg), EPA Methods 5030/8015;
- Total extractable hydrocarbons as diesel and motor oil (TEHd and mo), EPA Methods 8015m, using silica gel cleanup;
- Lead scavengers including: dichloroethane (DCA) and dibromoethane (EDB);
- Five fuel oxygenates by EPA Methods 8260 including;
- Methyl tert butyl ether (MTBE), Tert-butanol (TBA), Di-isopropyl ether (DIPE), Ethyl tert butyl ether (ETBE), and Tert amyl methyl ether (TAME); and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX).

Well sampling forms, chain-of-custody documents, and the analytical test reports are attached in Appendix A. Groundwater elevation data are summarized in Table 1. Analytical test results are summarized in Table 2.

The groundwater flow direction for the December 2006 event is presented in the Rose Diagram on Plate 2. The gradient for this event was 0.053 feet/foot directed towards the south-southwest. Based on the groundwater elevation data presented in Table 1, the groundwater gradient remains generally consistent with previous measurements. Groundwater was encountered at elevations higher in one well (MW-6) and lower in the remaining wells compared to the June 2006 event.



5.0 RESULTS OF ANALYSIS

5.1 Data Validation

Fugro reviewed the analytical data results presented by Curtis and Tompkins (C&T); the chemical testing laboratory. C&T indicated that analysis for BTEX, fuel oxygenates and lead scavengers were conducted two days past the recommended hold time of seven days (for an unpreserved 40 ml volatile organic glass vial). However, C&T indicated that all samples met all remaining internal quality control and quality assurance standards. Fugro reviewed all the laboratory results and noted that analytical results appear to be within historical ranges observed at the site; consequently we believe that the data is valid for this reporting phase.

5.2 Data Results

During this event contaminants of concern were detected in wells at concentrations similar to previous events. TPHg was detected in samples from wells P-1 (1,700 µg/l), P-2 (41,000 µg/l), M-1 (2,100 µg/l), and M-4 (1,800 µg/l). TPHd was detected in samples from wells P-1 (200 µg/l), P-2 (4,200 µg/l), M-1 (220 µg/l), and M-4 (140 µg/l). No TPHmo was detected in any of the samples tested. No TPHg, TPHd or TPHmo was detected in well M-5.

Analysis detected benzene concentrations in wells P-1 (70 µg/l), P-2 (990 µg/l), and M-4 (430 µg/l). No benzene was detected in wells M-1, M-5, and M-6. Toluene was detected in samples from wells P-1 (0.7 µg/l), and P-2 (2,200 µg/l). No toluene was detected in the remaining wells. Analysis detected ethylbenzene in samples from wells P-1 (2.4 µg/l), and P-2 (1,700 µg/l). Total xylenes were detected in samples from wells P-1 (1.4 µg/l), P-2 (7,700 µg/l), and M-4 (9.5 µg/l). No ethylbenzene was detected in well M-4. No ethylbenzene or xylene concentrations were detected in wells M-5 or M-6.

With the exception of 6 µg/l of MTBE detected in P-1 and 2.2 µg/l of MTBE detected in well M-1, no MTBE concentrations were detected in any of the remaining samples tested during this event. Analysis detected 82 µg/l of TBA and 2.5 µg/l of DIPE in well P-1. None of the remaining fuel oxygenates were detected in well P-1. No fuel oxygenates were detected in any of the remaining samples analyzed. No lead scavengers (EDB or DCA) were detected in any of the samples tested.

6.0 NEXT MONITORING EVENT

The next semi-annual groundwater-monitoring event is scheduled for June 2007. Results of this event will be presented in a stand-alone report to the ACEH.





7.0 REFERENCES

- Chaney, Walton & McCall (LLC), Petroleum – Affected Soils Removal and Disposition Report, APA Fund Site Oakland California, dated January 29, 2001.
- Fugro West Inc., Work Plan Additional Site Study, 2801 MacArthur Blvd, Oakland California, dated October 11, 2005.
- Fugro West Inc., Evaluation of Submerged Monitoring Well Screens, 2801 MacArthur Blvd, Oakland California, dated October 11, 2005.
- Geomatrix Consultants, Inc., Results of October 2001 Environmental Soil Sampling, 2801 MacArthur Boulevard Oakland California, dated January 29, 2001.
- Alameda County Environmental Health, Fuel Leak Case No. RO0000001, Dan's Auto Repair, 2801 MacArthur Blvd., Oakland CA 94602, dated July 28, 2005.
- Alameda County Environmental Health, Fuel Leak Case No. RO0000001, Dan's Auto Repair, 2801 MacArthur Blvd., Oakland CA 94602, dated March 31, 2006.



TABLES

Table 1
Groundwater Elevation Data
2801 MacArthur Boulevard
Oakland, California

Well	TOC¹ Elevation (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
M-1	1000	10/24/1990	36.1	963.9
		10/25/1990	36.1	963.9
		11/2/1990	36.4	963.6
		11/6/1990	36.8	963.2
		11/16/1990	36.8	963.2
		11/23/1990	36.9	963.1
		11/28/1990	37.0	963.0
		12/5/1990	37.2	962.8
		3/18/1991	35.8	964.2
		3/29/1991	32.4	967.6
		4/3/1991	31.9	968.1
		4/9/1991	31.6	968.4
		4/16/1991	31.2	968.8
		1/23/1992	35.5	964.5
		3/9/1993	29.1	970.9
		6/1/1993	27.5	972.5
		12/13/1993	33.9	966.1
		3/7/1994	32.3	967.7
		8/23/1994	32.3	967.7
		10/11/1994	34.1	965.9
		4/26/1995	24.4	975.6
		10/27/1995	31.3	968.7
		1/22/1996	31.1	968.9
		4/15/1996	25.6	974.4
7/10/1996	27.7	972.3		
12/1/1998	--	Paved Over		
6/22/2006	25.6	974.4		
12/19/2006	31.4	968.6		
M-2	999.6	4/30/1991	31.1	968.5
		5/7/1991	31.3	968.3
		1/16/1992	35.1	964.5
		3/9/1993	33.6	966.0
		5/17/1993	27.2	972.4
		6/1/1993	27.6	972.0
		8/17/1993	30.4	969.2
		12/13/1993	34.0	965.6
		3/7/1994	30.1	969.5
		8/23/1994	32.3	967.3
		10/11/1994	34.2	965.4
		4/26/1995	24.4	975.2
		10/27/1995	31.4	968.2
		1/22/1996	31.2	968.4
		4/15/1996	25.6	974.0
		7/10/1996	27.8	971.8
12/1/1998	30.9	968.7		
6/23/1999	27.3	972.4		
12/8/1999	33.7	965.9		
Unable to Locate Well				

Table 1
Groundwater Elevation Data
2801 MacArthur Boulevard
Oakland, California

Well	TOC¹ Elevation (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
P-2 (cont)		12/8/1999	31.2	966.6
		3/24/2003	25.8	972.0
		6/21/2006	22.7	975.2
		12/19/2006	26.7	971.1
P-3	999.1	3/29/1991	24.7	974.4
		4/3/1991	25.1	974.0
		4/9/1991	25.9	973.2
		4/16/1991	26.2	972.9
		4/18/1991	26.2	972.9
		4/30/1991	26.8	972.3
		5/7/1991	27.4	971.7
		1/23/1992	32.5	966.6
		3/9/1993	24.8	974.3
		6/4/1993	23.9	975.2
		8/17/1993	28.5	970.6
		12/13/1993	29.3	969.8
		3/7/1994	25.0	974.1
		8/23/1994	30.1	969.0
		10/11/1994	32.0	967.1
		4/26/1995	20.5	978.6
		10/27/1995	27.8	971.3
		1/22/1996	26.7	972.4
		4/15/1996	21.4	977.7
		7/10/1996	25.1	974.0
12/1/1998	27.2	971.9		
6/23/1999	24.5	974.6		
12/8/1999	31.3	967.8		
Well Abandoned				

Note 1 - Elevations relative to site-specific datum. Temporary Bench Mark No. 1, top of concrete at west corner of northernmost pump island. Assumed elevation = 1,000.0 feet.

Table 1
Groundwater Elevation Data
2801 MacArthur Boulevard
Oakland, California

Well	TOC ¹ Elevation (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
M-3	992.8	5/17/1993	22.2	970.6
		6/1/1993	23.3	969.5
		8/17/1993	25.0	967.8
		12/13/1993	25.8	967.0
		3/7/1994	23.1	969.7
		8/23/1994	25.8	967.0
		10/11/1994	27.4	965.4
		4/26/1995	19.6	973.2
		10/27/1995	25.4	967.4
		1/22/1996	24.2	968.6
		4/15/1996	20.9	971.9
		7/10/1996	22.9	969.9
		12/1/1998	23.5	969.3
		12/8/1999	26.3	966.5
		3/24/2003*	23.9	968.9
Well Abandoned				
M-4	999.6	5/17/1993	33.8	965.8
		6/1/1993	32.5	967.1
		12/13/1993	36.8	962.8
		3/7/1994	33.0	966.6
		8/23/1994	35.4	964.2
		10/11/1994	37.1	962.5
		4/26/1995	29.8	969.8
		10/27/1995	34.2	965.4
		1/22/1996	30.1	969.5
		4/15/1996	30.1	969.5
		7/10/1996	32.0	967.6
		12/1/1998	34.5	965.1
		6/23/1999	31.8	967.8
		12/8/1999	35.4	964.3
		3/24/2003*	33.4	966.2
6/21/2006	30.6	969.0		
12/19/2006	35.2	964.5		
M-5	992.9	8/23/1994	31.8	961.1
		10/11/1994	33.6	959.3
		4/26/1995	20.5	972.4
		10/27/1995	31.5	961.4
		1/22/1996	25.6	967.3
		4/15/1996	21.7	971.2
		7/10/1996	26.8	966.1
		12/1/1998	28.8	964.1
		6/23/1999	26.5	966.4
		12/8/1999	32.1	960.9
		3/24/2003*	25.9	967.0
		6/22/2006	23.9	969.0
12/19/2006	28.1	964.8		

Table 1
Groundwater Elevation Data
2801 MacArthur Boulevard
Oakland, California

Well	TOC ¹ Elevation (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
M-6	997.7	8/23/1994	41.2	956.5
		10/11/1994	38.2	959.5
		4/26/1995	27.8	969.9
		10/27/1995	34.9	962.8
		1/22/1996	22.0	975.7
		4/15/1996	28.5	969.2
		7/10/1996	32.6	965.1
		12/1/1998	--	inaccessible
		6/23/1999	31.7	966.0
		12/8/1999	36.3	961.4
		3/24/2003*	32.9	964.8
		6/22/2006	29.6	968.1
		12/19/2006	28.35	969.4
		P-1	999.6	10/24/1990
10/25/1990	38.0			961.6
11/2/1990	38.4			961.2
11/6/1990	38.7			960.9
11/16/1990	38.3			961.3
11/23/1990	38.1			961.5
11/28/1990	38.3			961.3
12/5/1990	38.2			961.4
3/18/1991	37.8			961.8
3/29/1991	36.9			962.7
4/3/1991	36.8			962.8
4/9/1991	36.9			962.7
4/16/1991	36.7			962.9
4/18/1991	36.8			962.8
4/30/1991	36.3	963.3		

Table 1
Groundwater Elevation Data
2801 MacArthur Boulevard
Oakland, California

Well	TOC¹ Elevation (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
P-1 (cont.)		5/7/1991	36.2	963.4
		1/16/1992	36.6	963.0
		3/9/1993	32.8	966.8
		6/1/1993	30.0	969.6
		12/13/1993	33.7	965.9
		3/7/1994	32.6	967.0
		8/23/1994	32.7	966.9
		10/11/1994	33.5	966.1
		4/26/1995	27.6	972.0
		10/27/1995	31.8	967.8
		1/22/1996	33.3	966.3
		4/15/1996	28.2	971.4
		7/10/1996	29.3	970.3
		12/1/1998	31.9	967.7
		12/8/1999	32.7	967.0
		6/21/2006	26.1	973.5
	12/19/2006	33.0	966.6	
P-2	997.8	10/24/1990	41.1	956.7
		10/25/1990	40.6	957.2
		11/2/1990	38.4	959.4
		11/6/1990	37.0	960.8
		11/16/1990	37.4	960.4
		11/23/1990	35.9	961.9
		11/28/1990	35.4	962.4
		2/5/1990	35.0	962.8
		3/18/1991	31.4	966.4
		3/29/1991	28.2	969.6
		4/3/1991	26.8	971.0
		4/9/1991	26.5	971.3
		4/16/1991	26.5	971.3
		4/18/1991	26.5	971.3
		4/30/1991	26.7	971.1
		5/7/1991	27.0	970.8
		1/16/1992	33.7	964.1
		3/9/1993	23.6	974.2
		5/17/1993	23.7	974.1
		6/1/1993	24.4	973.4
		8/17/1993	28.3	969.5
		12/13/1993	31.0	966.8
		3/7/1994	25.4	972.4
		8/23/1994	30.3	967.5
		10/11/1994	32.3	965.5
		4/26/1995	19.9	977.9
10/27/1995	29.6	968.2		
1/22/1996	27.4	970.4		
4/15/1996	21.3	976.5		
7/10/1996	25.0	972.8		
12/1/1998	28.2	969.6		
6/23/1999	24.8	973.0		

Table 2
Summary of Analytical Results - Groundwater Well Samples
2801 MacArthur Boulevard
Oakland, California

Sample Location	Sample Date	Elevation (feet)	TPH			BTEX				Five Fuel Oxygenates					Lead Scavengers	
			TPHg (ug/l)	TPHd (ug/l)	TPHmo (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl benzene (ug/l)	Total Xylenes (ug/l)	MTBE (ug/l)	Di- isopropyl ether (DIPE) (ug/l)	Ethyl tert-butyl ether (ETBE) (ug/l)	Tert-amyl methyl ether (TAME) (ug/l)	Tert -Butanol (TBA) (ug/l)	1,2-Dibromoethane (EDB) (ug/l)	1,2-Dichloroethane (DCA) (ug/l)
P-1	1/16/1992	963.0	6,700	--	--	500	4.4	80	40	--	--	--	--	--	--	--
	3/9/1993	966.8	5,600	--	--	1,100	29	63	120	--	--	--	--	--	--	--
	6/21/2006	973.5	3,200	610	90	430	2.6	31	6.4	6.4	1.8	<0.5	<0.5	80	<0.5	<0.5
	12/20/2006	966.6	1,700	200LY	<300	70	0.7	2.4	1.4	6	2.5	<0.5	<0.5	82	<0.5	<0.5
P-2	11/6/1990	960.4	33,000	--	--	4,700	2,100	380	630	--	--	--	--	--	--	--
	1/16/1992	964.1	99,000	--	--	6,500	12,000	2,000	16,000	--	--	--	--	--	--	--
	3/9/1993	974.2	70,000	--	--	5,900	11,000	2,100	12,000	--	--	--	--	--	--	--
	5/17/1993	974.1	87,000	--	--	6,600	13,000	2,200	13,000	--	--	--	--	--	--	--
	8/17/1993	969.5	80,000	--	--	5,800	12,000	2,000	12,000	--	--	--	--	--	--	--
	12/13/1993	966.8	100,000	--	--	5,600	12,000	2,200	14,000	--	--	--	--	--	--	--
	3/7/1994	972.4	77,000	--	--	5,100	11,000	2,000	12,000	--	--	--	--	--	--	--
	8/23/1994	967.5	70,000	--	--	3,800	8,700	1,500	9,900	--	--	--	--	--	--	--
	4/27/1995	977.5	44,000	--	--	3,600	8,500	1,500	9,300	--	--	--	--	--	--	--
	10/30/1995	968.2	66,000	--	--	4,600	11,000	2,100	13,600	--	--	--	--	--	--	--
	4/17/1996	976.5	58,000	--	--	4,800	9,900	1,900	12,900	--	--	--	--	--	--	--
	6/23/1999	973.0	57,000	--	--	1,800	4,700	1,300	9,300	<25	--	--	--	--	--	--
	12/9/1999	966.6	32,000	--	--	1,500	3,200	700	5,100	<0.5	--	--	--	--	--	--
	3/24/2003	972.0	54,000	--	--	750	3,000	1,200	7,100	<13	--	--	--	--	--	--
6/21/2006	975.2	37,000	2,600	75	850	2,100	1,400	6,700	<0.5	<0.5	<0.5	<0.5	<10	<0.5	2.7	
12/20/2006	971.1	41,000	4,200LY	<300	990	2,200	1,700	7,700	<17	<17	<17	<17	<330	<17	<17	
P-3	8/17/1993	970.6	900	--	--	180	65	10	93	--	--	--	--	--	--	--
	10/30/1995	971.3	2000	--	--	650	45	31	156	--	--	--	--	--	--	--
	6/23/1999	974.6	14,000	--	--	3,300	190	140	756	<10	--	--	--	--	--	--
	12/9/1999	967.8	1,500	--	--	3,700	52	57	210	<0.5	--	--	--	--	--	--
Well Abandoned																
M-1	6/22/2006	974.4	2,800	250	<50	<0.5	<0.5	0.53	1.91	2.3	<0.5	<0.5	<0.5	<10	<0.5	<0.5
	12/20/2006	968.6	2,100	220LY	<300	<0.5	<0.5	<0.5	<1.5	2.2	<0.5	<0.5	<0.5	<10	<0.5	<0.5
M-2	5/7/1991	968.3	16,000	--	--	1,300	950	170	890	--	--	--	--	--	--	--
	1/16/1992	964.5	22,000	--	--	960	570	370	1,800	--	--	--	--	--	--	--
	3/9/1993	966.0	27,000	--	--	1,100	970	490	1,400	--	--	--	--	--	--	--
	5/17/1993	972.4	17,000	--	--	1,200	770	480	1,300	--	--	--	--	--	--	--
	8/17/1993	969.2	20,000	--	--	1,700	910	540	1,400	--	--	--	--	--	--	--
	12/13/1993	965.6	51,000	--	--	2,200	1,400	700	2,600	--	--	--	--	--	--	--
	3/7/1994	969.5	28,000	--	--	1,400	900	640	1,800	--	--	--	--	--	--	--
	8/23/1994	967.3	21,000	--	--	1,600	540	520	1,100	--	--	--	--	--	--	--
	4/26/1995	975.2	14,000	--	--	1,200	510	490	870	--	--	--	--	--	--	--
	10/30/1995	968.2	16,000	--	--	1,700	830	470	1,120	--	--	--	--	--	--	--
	4/17/1996	974.0	10,000	--	--	1,300	610	380	810	--	--	--	--	--	--	--
6/23/1999	972.4	1,900	--	--	150	19	32	24.8	410	--	--	--	--	--	--	
12/9/1999	965.9	11,000	--	--	560	130	240	265	<0.5	--	--	--	--	--	--	
Unable to Locate Well																
Commercial ESLs (Indoor Air)*			NA	NA	NA	6,400	530,000	170,000	160,000	150,000	NE	NE	NE	NA	770	1,700
Residential ESLs (Indoor Air)**			NA	NA	NA	1,900	530,000	170,000	160,000	45,000	NE	NE	NE	NA	230	490
Residential ULRs (Indoor Air)***			NE	NE	NE	5,600	>Sol	>Sol	>Sol	>Sol	NE	NE	NE	NE	NE	15,000

Table 2
Summary of Analytical Results - Groundwater Well Samples
2801 MacArthur Boulevard
Oakland, California

Sample Location	Sample Date	Elevation (feet)	TPH			BTEX				Five Fuel Oxygenates					Lead Scavengers	
			TPHg (ug/l)	TPHd (ug/l)	TPHmo (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl benzene (ug/l)	Total Xylenes (ug/l)	MTBE (ug/l)	Di- isopropyl ether (DIPE) (ug/l)	Ethyl tert-butyl ether (ETBE) (ug/l)	Tert-amyl methyl ether (TAME) (ug/l)	Tert -Butanol (TBA) (ug/l)	1,2-Dibromoethane (EDB) (ug/l)	1,2-Dichloroethane (DCA) (ug/l)
M-3	5/17/1993	970.6	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	8/17/1993	967.8	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	12/13/1993	967.0	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/7/1994	969.7	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	8/23/1994	967.0	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	4/27/1995	973.2	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/24/2003	968.9	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
Well Abandoned																
M-4	5/17/1993	965.8	7,500	--	--	1,200	230	11	350	--	--	--	--	--	--	--
	8/17/1993	--	13,000	--	--	3,000	330	130	700	--	--	--	--	--	--	--
	12/13/1993	962.8	11,000	--	--	2,700	190	90	360	--	--	--	--	--	--	--
	3/7/1994	966.6	3,800	--	--	980	33	49	140	--	--	--	--	--	--	--
	8/23/1994	964.2	19,000	--	--	5,800	200	460	630	--	--	--	--	--	--	--
	4/27/1995	969.8	2,300	--	--	510	40	69	120	--	--	--	--	--	--	--
	11/1/1995	965.4	1,100	--	--	470	14	23	26	--	--	--	--	--	--	--
	4/17/1996	969.5	550*	--	--	330	<2.5	5.9	16.1	--	--	--	--	--	--	--
	6/23/1999	967.8	4,000	--	--	<0.5	69	190	195	<0.5	--	--	--	--	--	--
	12/9/1999	964.3	1,500	--	--	2,500	32	140	88	<0.5	--	--	--	--	--	--
	3/24/2003	966.2	6,500	--	--	1,900	35	92	58	<7.1	--	--	--	--	--	--
	6/21/2006	969.0	3,000	260	71	480	9.6	10	17.5	<0.5	1.3	<0.5	<0.5	32	<0.5	<0.5
12/20/2006	964.5	1,800	140LY	<300	430	<0.5	<3.1	9.5	<3.1	<3.1	<3.1	<3.1	<63	<3.1	<3.1	
M-5	8/23/1994	961.1	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	4/27/1995	972.4	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	11/1/1995	961.4	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	4/17/1996	971.2	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	6/23/1999	966.4	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	12/9/1999	960.9	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	3/24/2006	967.0	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	6/22/2006	969.0	<50	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
12/20/2006	964.8	<50	<50	<300	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	
M-6	10/11/1994	959.5	3,600	--	--	340	27	65	240	--	--	--	--	--	--	--
	4/26/1995	969.9	150	--	--	9.3	<0.5	5.6	1.7	--	--	--	--	--	--	--
	11/1/1995	962.8	170	--	--	0.6	<0.5	<0.5	0.6	--	--	--	--	--	--	--
	1/22/1996	975.7	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	4/17/1996	969.2	<50	--	--	<0.5	<0.5	<0.5	1	--	--	--	--	--	--	--
	7/12/1996	965.1	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	11/7/1996	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	6/23/1999	966.0	340	--	--	14	<0.5	19	<0.5	<0.5	--	--	--	--	--	--
	12/9/1999	961.4	120	--	--	3.7	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	3/24/2003	964.8	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	6/22/2006	968.1	67	69	160	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
12/20/2006	969.4	<50	<50	<300	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	
Commercial ESLs (Indoor Air) *			NA	NA	NA	6,400	530,000	170,000	160,000	150,000	NE	NE	NE	NA	770	1,700
Residential ESLs (Indoor Air) **			NA	NA	NA	1,900	530,000	170,000	160,000	45,000	NE	NE	NE	NA	230	490
Residential ULRs (Indoor Air)***			NE	NE	NE	5,600	>Sol	>Sol	>Sol	>Sol	NE	NE	NE	NE	NE	15,000

Notes

TPHg = Total volatile hydrocarbons in the gasoline range.
 TPHd = Total volatile hydrocarbons in the diesel range.
 TPHmo = Total volatile hydrocarbons in the motor oil range.
 MTBE = Methyl tert butyl ether
 ug/l = Micrograms per liter = parts per billion.
 <50 = Analyte not present at a concentration above the stated detection limit.
 * = Sample exhibits a fuel pattern which does not resemble the standard.
 -- = Sample not analyzed for analyte.
 NE = Not established
 NA = No applicable value, SFRWQCB requires use of soil gas values to determine potential risk

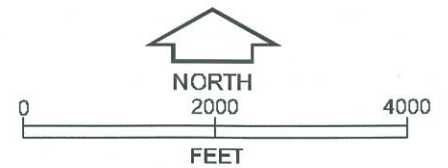
ESL= Environmental Screening Levels Established by The SFRWQCB, February 2005.
 SFRWQCB = San Francisco Bay Regional Water Quality Control Board
 * = Table E-1a: Groundwater Screening Levels for Evaluation of Potential Commercial Indoor Air Impacts Interim Final - February 2005
 ** = Table E-1a: Groundwater Screening Levels for Evaluation of Potential Residential Indoor Air Impacts Interim Final - February 2005
 *** = City of Oakland Urban Land Reuse (ULR) Risk Based Screening Levels for Residential Indoor Air Impact January 2001, Table 7. Oakland Tier 2 Site Specific Target Levels for Clayey Silts
 >Sol = Value exceeds solubility of chemical in water

PLATES

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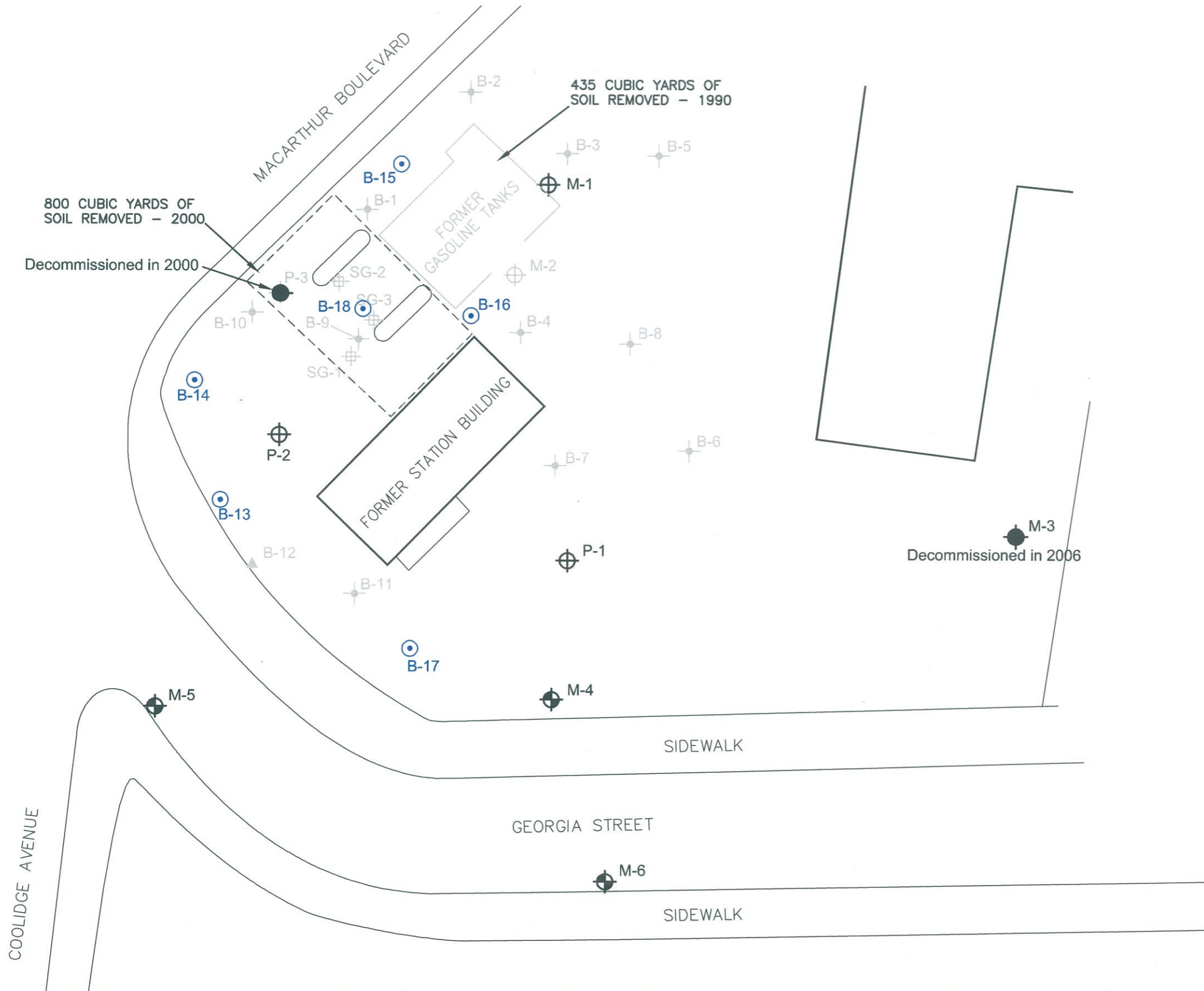


SOURCE: This Vicinity Map is based on Subsurface Consultants, Inc., Plate 1 dated 08/99.



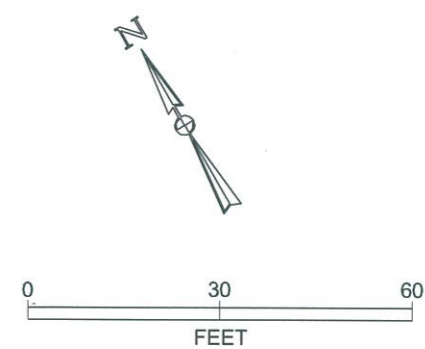
VICINITY MAP
2801 MacArthur Blvd.
Oakland, California





LEGEND Explanation:

- Approximate Location Of Fugro Boring (2006)
- Monitoring Well by SCI
- Monitoring Well Sampled (2006)
- Monitoring Well by Others
- Monitoring Well by Others Sampled (2006)
- Test Boring by SCI
- Test Boring by Others
- Soil Vapor and Soil Sampling Location by SCI
- Former Tank Excavation (1989)
- CAP Excavation Area



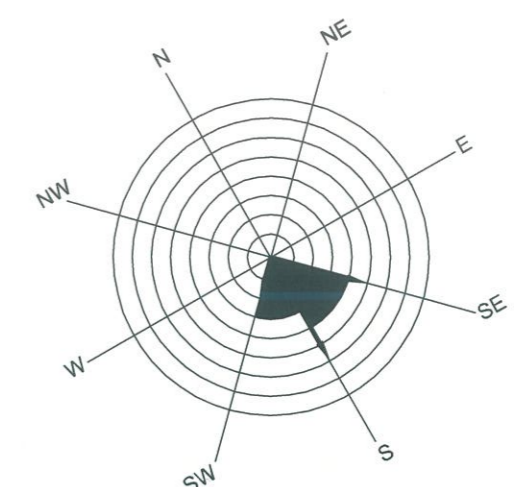
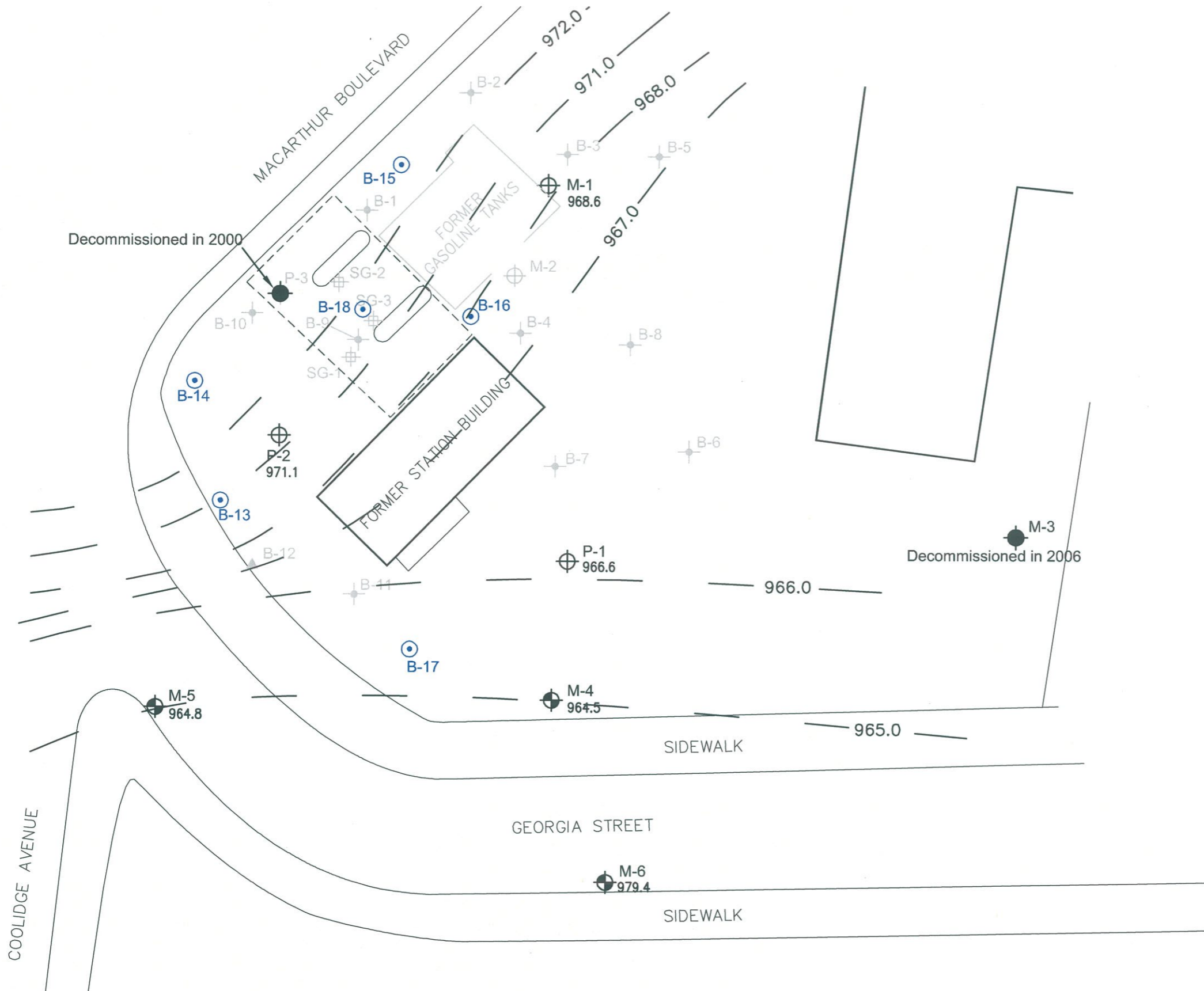
SITE PLAN
2801 MacArthur Blvd.
Oakland, California

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BASE MAP SOURCE: This Site Plan is based on Subsurface Consultants, Inc., Plate 3 dated 08/99.



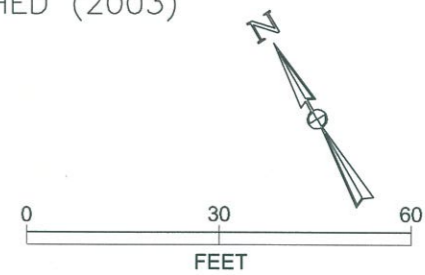
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LEGEND

- Explanation:
- Approximate Location Of Fugro Boring (Summer 2006)
 - Monitoring Well by SCI
 - Monitoring Well Sampled (Fall 2006)
 - Monitoring Well by Others
 - Monitoring Well by Others Sampled (Fall 2006)
 - Test Boring by SCI
 - Test Boring by Others
 - Soil Vapor and Soil Sampling Location by SCI
 - Former Tank Excavation (1989)
 - CAP Excavation Area

NOTE: GROUNDWATER ELEVATIONS BASED ON SURVEY FROM ASSUMED DATUM (CORNER OF NORTHERN PUMP ISLAND) NORTHERN PUMP ISLAND DEMOLISHED (2003)



GROUNDWATER SURFACE MAP DECEMBER 2006
2801 MacArthur Blvd.
Oakland, California

BASE MAP SOURCE: This Site Plan is based on Subsurface Consultants, Inc., Plate 3 dated 08/99.



APPENDIX A
WELL SAMPLING FORMS, LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTS



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
PROJECT NO.: 838 006
SAMPLED BY: Obi Nzewi
DATE: 12/19/2006
WEATHER: Bright sunny cold

WELL NO.: P-1
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTCC): 38.5' FEET
DEPTH TO GROUNDWATER (BTCC): 33.0 FEET
FEET OF WATER IN WELL: 5.5 FEET

CALCULATED PURGE VOLUME: 2.7 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: NA
PURGE METHOD: Clean Disposable Bailer

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

Table with 9 columns: GALLONS REMOVED, TIME, Temp, pH, CONDUCTIVITY (µMHOS/CM), TDS (g/L), ORP (mV), DO (mg/l), COMMENTS. Contains 3 rows of data.

ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTCC): 35.8

TIME SAMPLED: 1215

SAMPLING METHOD

CONTAINERS / PRESERVATIVE: 40 ML, Poly

LITER, OTHER

ANALYSES: (Note if any samples are field filtered)

- X TEHd, TEHmo (8015 w/ Silica gel)
X TVHg, BTEX, MTBE (8015/8020)
X Fuel Oxygenates and Lead Scavengers (8260)
HVOCs (8260)
Title 22 Metals (6010/9000)
Pesticides (8080)
PCBs (8080)
Sulfate (300.0)
Nitrate (300.0)
Fe 2+ - Field Filtered

MISC FIELD OBSERVATION:

Purged dry after ~2.5 gallons
DTCW at 80% Recovery = 39.6'



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
PROJECT NO.: 838.006
SAMPLED BY: Obi Nzewi
DATE: 12/19/2006
WEATHER: Bright sunny mild

WELL NO.: P-2
WELL CASING DIAMETER: 2
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 42.35 FEET
DEPTH TO GROUNDWATER (BTOC): 26.67 FEET
FEET OF WATER IN WELL: 15.68 FEET

CALCULATED PURGE VOLUME: 7.67 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: NA
PURGE METHOD: Clean Disposable Bailor

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

Table with 8 columns: GALLONS REMOVED, TIME, Temp, pH, CONDUCTIVITY (µMHOS/CM), TDS (g/L), ORP (mV), DO (mg/l), COMMENTS (odor, color, ...). Rows include data for 3, 5, and 7.7 gallons removed.

ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 28.68 TIME SAMPLED: 1335

SAMPLING METHOD

CONTAINERS / PRESERVATIVE: 40 ML, LITER, Poly, OTHER

- ANALYSES: (Note if any samples are field filtered)
X TEHd, TEHmo (8015 w/ Silica gel)
X TVHg, BTEX, MTBE (8015/8020)
X Fuel Oxygenates and Lead Scavengers (8260)
HVOcs (8260)
Title 22 Metals (6010/9000)
Pesticides (8080)
PCBs (8080)
Sulfate (300.0)
Nitrate (300.0)
Fe 2+ - Field Filtered

MISC FIELD OBSERVATION: DTGW at 80% recovery = 32.0



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
PROJECT NO.: 838.006
SAMPLED BY: Obi Nzewi
DATE: 12/19/2006
WEATHER: Bright sunny mild

WELL NO.: M-1
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 45.0 FEET
DEPTH TO GROUNDWATER (BTOC): 31.4 FEET
FEET OF WATER IN WELL: 13.6 FEET

CALCULATED PURGE VOLUME: 6.65 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: NA
PURGE METHOD: Clean Disposable Bailor

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

Table with 8 columns: GALLONS REMOVED, TIME, Temp, pH, CONDUCTIVITY (uMHOS/CM), TDS (g/L), ORP (mV), DO (mg/l), COMMENTS. Includes handwritten data for three samples.

ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 41.450 TIME SAMPLED: 1310

SAMPLING METHOD

CONTAINERS / PRESERVATIVE: 40 ML, LITER, Poly, OTHER

- ANALYSES: (Note if any samples are field filtered)
X TEHd, TEHmo (8015 w/ Silica gel)
X TVHg, BTEX, MTBE (8015/8020)
X Fuel Oxygenates and Lead Scavengers (8260)
HVOCs (8260)
Title 22 Metals (6010/9000)
Pesticides (8080)
PCBs (8080)
Sulfate (300.0)
Nitrate (300.0)
Fe 2+ - Field Filtered

MISC FIELD OBSERVATION: DTGW at 80% Recovery = 37.68'



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
 PROJECT NO.: 838.006
 SAMPLED BY: Obi Nzewi
 DATE: 12/19/2006
 WEATHER: Bright Sunny mild

WELL NO.: M-4
 WELL CASING DIAMETER: 2"
 TOC ELEVATION: _____

TOTAL DEPTH OF CASING (BTOC): 45.65 FEET
 DEPTH TO GROUNDWATER (BTOC): 35.15 FEET
 FEET OF WATER IN WELL: 10.50 FEET

CALCULATED PURGE VOLUME: 5.1 gallons
 (feet of water * casing dia² * .0408 * # of Volumes)

FREE PRODUCT: NA
 PURGE METHOD: Clean Disposable Bailer

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER _____

FIELD MEASUREMENTS

GALLONS REMOVED	TIME	Temp	pH	CONDUCTIVITY (µMHOS/CM)	TDS (g/L)	ORP (mV)	DO (mg/l)	COMMENTS (odor, color, ...)
Downhole (Pre-Purge)	1300	14.8	6.81	747	0.54	-15.5	4.5	
2	1317	19.85	6.84	756	0.545	-18.5	3.62	
4	1322	19.83	6.88	764	0.551	-28.3	3.52	
5	1329	19.80	6.91	777	0.561	-33.3	5.89	

ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 40.45 TIME SAMPLED: 1245

SAMPLING METHOD _____

CONTAINERS / PRESERVATIVE: 40 ML LITER
Poly OTHER

- ANALYSES: (Note if any samples are field filtered)
- TEHd, TEHmo (8015 w/ Silica gel)
 - TVHg, BTEX, MTBE (8015/8020)
 - Fuel Oxygenates and Lead Scavengers (8260)
 - HVOCs (8260)
 - Title 22 Metals (6010/9000)
 - Pesticides (8080)
 - PCBs (8080)
 - Sulfate (300.0)
 - Nitrate (300.0)
 - Fe²⁺ - Field Filtered

MISC FIELD OBSERVATION: DTCW at 80% Recovery = 42.18'



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
PROJECT NO.: 838.006
SAMPLED BY: Obi Nzewi
DATE: 12/19/2006
WEATHER: Bright sunny cold

WELL NO.: M-5
WELL CASING DIAMETER: 2"
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 38.0 FEET
DEPTH TO GROUNDWATER (BTOC): 28.12 FEET
FEET OF WATER IN WELL: 9.88 FEET

CALCULATED PURGE VOLUME: 4.8 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: NA

PURGE METHOD: Clean Disposable Bailor

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

Table with 9 columns: GALLONS REMOVED, TIME, Temp, pH, CONDUCTIVITY (µMHOS/CM), TDS (g/L), ORP (mV), DO (mg/l), COMMENTS (odor, color, ...). Includes a 'Downhole (Pre-Purge)' row.

ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 28.68 TIME SAMPLED: 11.00

SAMPLING METHOD

CONTAINERS / PRESERVATIVE: 40 ML Poly

LITER OTHER

- ANALYSES: (Note if any samples are field filtered)
X TEHd, TEHmo (8015 w/ Silica gel)
X TVHg, BTEX, MTBE (8015/8020)
X Fuel Oxygenates and Lead Scavengers (8260)
HVOCS (8260)
Title 22 Metals (6010/9000)

- Pesticides (8080)
PCBs (8080)
Sulfate (300.0)
Nitrate (300.0)
Fe 2+ - Field Filtered

MISC FIELD OBSERVATION: YSI cable not included in case
DTCW at 50% Recovery = 33.74'



WELL SAMPLING FORM

PROJECT NAME: 2801 MacArthur Blvd
PROJECT NO.: 838.006
SAMPLED BY: Obi Nzewi
DATE: 12/19/2006
WEATHER: Bright Sunny Cold

WELL NO.: M-6
WELL CASING DIAMETER: 2'
TOC ELEVATION:

TOTAL DEPTH OF CASING (BTOC): 47.7 FEET
DEPTH TO GROUNDWATER (BTOC): 18.35 FEET
FEET OF WATER IN WELL: 29.35 FEET

CALCULATED PURGE VOLUME: 14.44 gallons
(feet of water * casing dia^2 * .0408 * # of Volumes)

FREE PRODUCT: NA
PURGE METHOD: Clean Disposable Bailor

MEASUREMENT METHOD: ELECTRONIC SOUNDER or OTHER

FIELD MEASUREMENTS

Table with 9 columns: GALLONS REMOVED, TIME, Temp, pH, CONDUCTIVITY (µMHOS/CM), TDS (g/L), ORP (mV), DO (mg/l), COMMENTS. Rows show data for 5, 10, and 15 gallons removed.

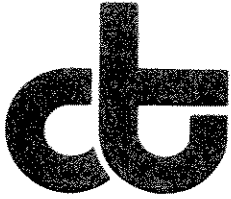
ACTUAL DEPTH TO GROUNDWATER BEFORE SAMPLING (BTOC): 43.43 TIME SAMPLED: 11:20

SAMPLING METHOD

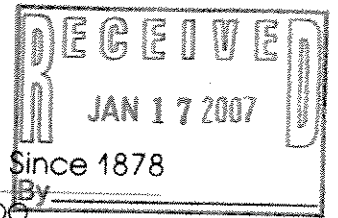
CONTAINERS / PRESERVATIVE: 40 ML, LITER, Poly, OTHER

- ANALYSES: (Note if any samples are field filtered)
X TEHd, TEHmo (8015 w/ Silica gel)
X TVHg, BTEX, MTBE (8015/8020)
X Fuel Oxygenates and Lead Scavengers (8260)
HVOCS (8260)
Title 22 Metals (6010/9000)
Pesticides (8080)
PCBs (8080)
Sulfate (300.0)
Nitrate (300.0)
Fe 2+ - Field Filtered

MISC FIELD OBSERVATION: Purged dry at approx 13.5 gallons
DTGW at 80% recovery = 22.02'



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



A N A L Y T I C A L R E P O R T

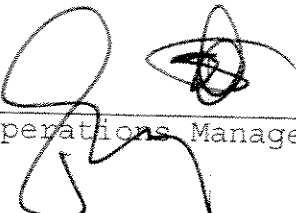
Prepared for:

Fugro West Inc.
 1000 Broadway
 Suite 440
 Oakland, CA 94607

Date: 03-JAN-07
 Lab Job Number: 191694
 Project ID: 838.006
 Location: 2801 MacArthur Blvd.

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 signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Reviewed by: 
 Project Manager

Reviewed by: 
 Operations Manager

This package may be reproduced only in its entirety.

CASE NARRATIVE

Laboratory number: 191694
Client: Fugro West Inc.
Project: 838.006
Location: 2801 MacArthur Blvd.
Request Date: 12/21/06
Samples Received: 12/21/06

This hardcopy data package contains sample and QC results for six water samples, requested for the above referenced project on 12/21/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Many samples had pH greater than 2. The samples were analyzed within 7 days. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

A number of samples had pH greater than 2. The samples were not analyzed within 7 days. No other analytical problems were encountered.

CHAIN OF CUSTODY

191694

PROJECT NAME: 2801 MacArthur Blvd.
 PROJECT NO.: 838.006 LAB: C&T
 PROJECT CONTACT: Dbi Nzewi TURNAROUND: Standard
 SAMPLED BY: Hana Zeidenberg

ANALYSIS REQUESTED	
BTEX (8060)	<input checked="" type="checkbox"/>
TPH (8015 w/ Sigel)	<input checked="" type="checkbox"/>
TPHd, TPHm (w/ Sigel)	<input checked="" type="checkbox"/>
TPHd, TPHm (w/ Sigel)	<input checked="" type="checkbox"/>
Fuel Oxygenates & Lead Surrogate	<input checked="" type="checkbox"/>

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX			CONTAINERS				PRESERVATIVE					SAMPLING DATE				NOTES
		WATER	SOIL	AIR	VOA	LITER	PINT	TUBE	HCL	H ₂ SO ₄	HNO ₃	ICE	OTHER	NONE	MONTH	DAY	YEAR	
-1	M-5	X			6	1						X	X	12	2	06	11:00	X
-2	M-6				6	1							X	12	2	06	11:20	X
-3	P-1				6	1							X	12	2	06	12:15	X
-4	M-4				6	1							X	12	2	06	12:45	X
-5	M-1				6	1							X	12	2	06	1:30	X
-6	P-2				6	1							X	12	2	06	1:35	X

CHAIN OF CUSTODY RECORD

COMMENTS & NOTES:

RELINQUISHED BY: (Signature) <u>Dbi Nzewi</u>	DATE/TIME <u>12/21/06</u>	RECEIVED BY: (Signature) <u>Ruby</u>	DATE/TIME <u>12/21/06</u>
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

P/S



FUGRO WEST, INC.
 1000 Broadway, Suite 200
 Oakland, California 94607
 Tel: 510.268.0461 Fax: 510.268.0137

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/20/06
Units:	ug/L	Received:	12/21/06

Field ID:	M-5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	120663
Lab ID:	191694-001	Analyzed:	12/23/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	69-137
Bromofluorobenzene (FID)	98	80-133

Field ID:	M-6	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	120663
Lab ID:	191694-002	Analyzed:	12/23/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	69-137
Bromofluorobenzene (FID)	105	80-133

Field ID:	P-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	120663
Lab ID:	191694-003	Analyzed:	12/23/06

Analyte	Result	RL
Gasoline C7-C12	1,700 L	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	69-137
Bromofluorobenzene (FID)	124	80-133

Field ID:	M-4	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	120663
Lab ID:	191694-004	Analyzed:	12/23/06

Analyte	Result	RL
Gasoline C7-C12	1,800	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	69-137
Bromofluorobenzene (FID)	108	80-133

L= Lighter hydrocarbons contributed to the quantitation
 ND= Not Detected
 RL= Reporting Limit

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\356.seq
 Sample Name: 191694-003,120663,tvh only
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_022
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe352.met

Software Version 3.1.7
 Run Date: 12/23/2006 1:32:17 AM
 Analysis Date: 12/27/2006 12:50:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b7.0

--< General Method Parameters >--

No items selected for this section

--< A >--

No items selected for this section

Integration Events

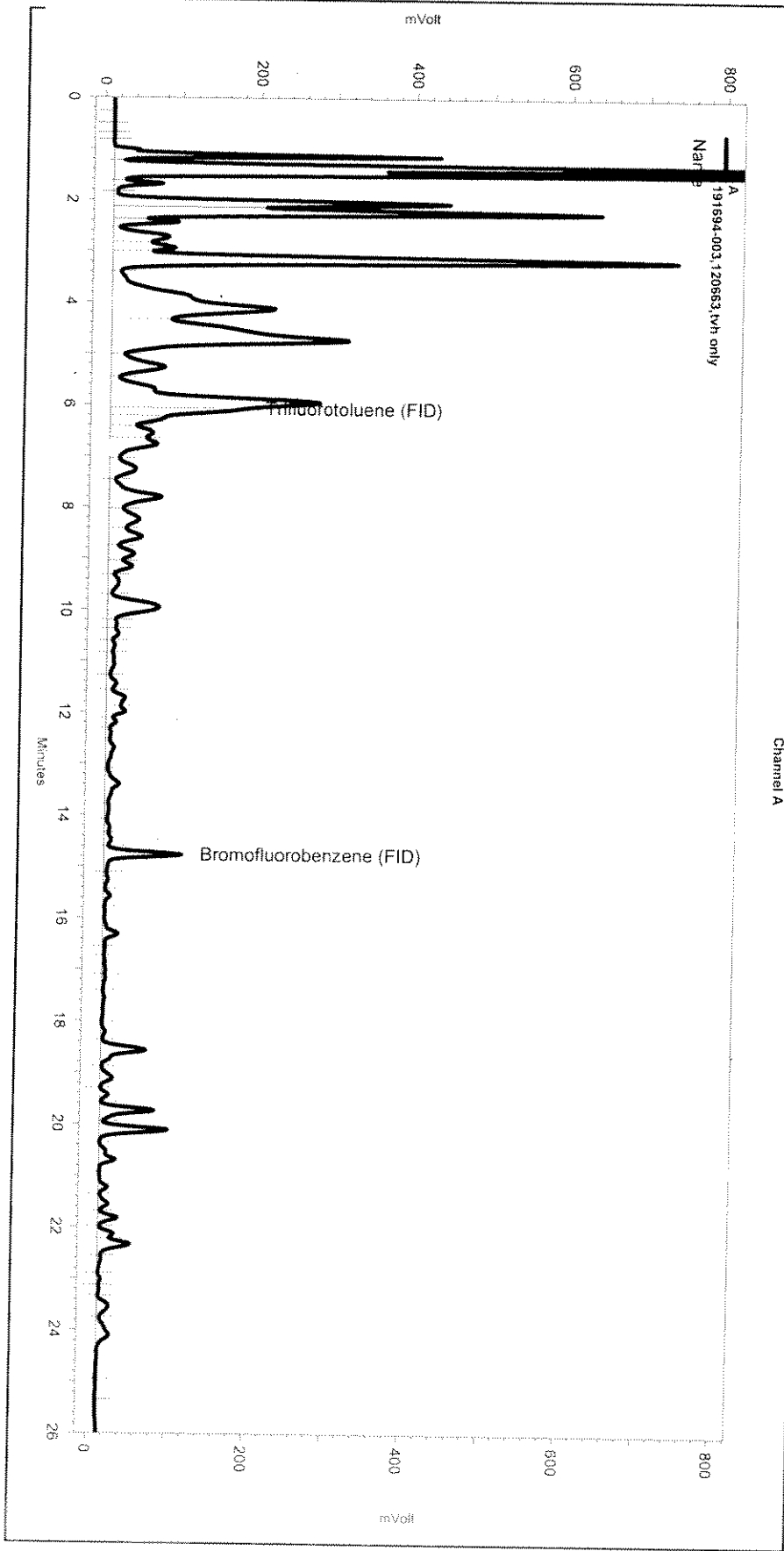
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Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.059	0	0
Yes	Split Peak	6.212	0	0

P-1



Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence1356.seq
 Sample Name: 191694-004,120663.tvh only
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_023
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (jims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTX352.met

Software Version 3.1.7
 Run Date: 12/23/2006 2:08:55 AM
 Analysis Date: 12/27/2006 12:50:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b7.0

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

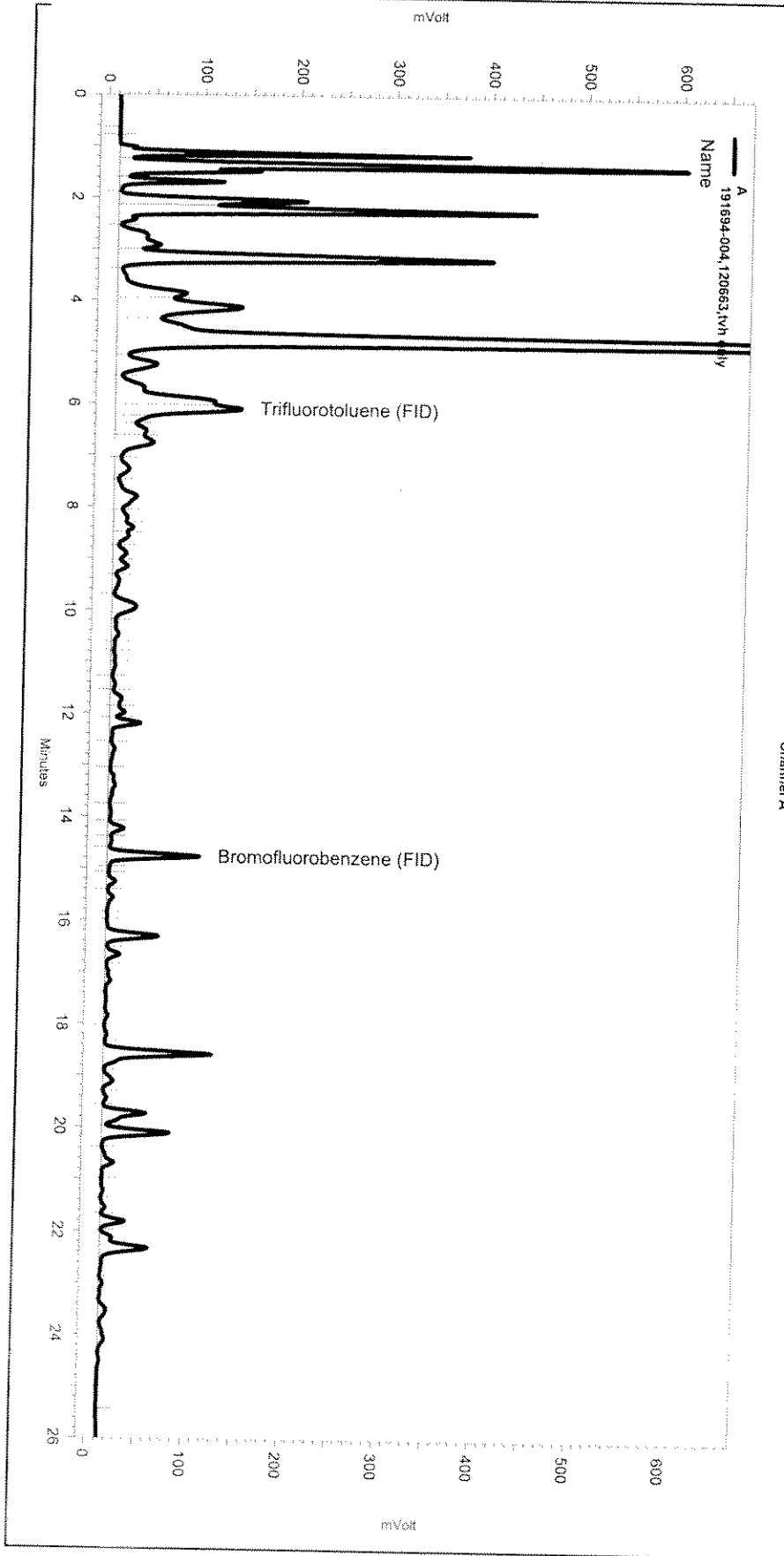
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.023	0	0
Yes	Split Peak	6.236	0	0
Yes	Split Peak	14.961	0	0

M-4



Channel A

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/20/06
Units:	ug/L	Received:	12/21/06

Field ID: M-1	Diln Fac: 1.000
Type: SAMPLE	Batch#: 120663
Lab ID: 191694-005	Analyzed: 12/23/06

Analyte	Result	RL
Gasoline C7-C12	2,100 L	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	69-137
Bromofluorobenzene (FID)	133	80-133

Field ID: P-2	Diln Fac: 10.00
Type: SAMPLE	Batch#: 120722
Lab ID: 191694-006	Analyzed: 12/27/06

Analyte	Result	RL
Gasoline C7-C12	41,000	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	69-137
Bromofluorobenzene (FID)	103	80-133

Type: BLANK	Batch#: 120663
Lab ID: QC369502	Analyzed: 12/22/06
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	69-137
Bromofluorobenzene (FID)	99	80-133

Type: BLANK	Batch#: 120722
Lab ID: QC369715	Analyzed: 12/27/06
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	69-137
Bromofluorobenzene (FID)	98	80-133

L= Lighter hydrocarbons contributed to the quantitation
 ND= Not Detected
 RL= Reporting Limit

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\356.seq
 Sample Name: 191694-005,120663,tvh only
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_024
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lms2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbx352.met

Software Version 3.1.7
 Run Date: 12/23/2006 2:45:34 AM
 Analysis Date: 12/27/2006 12:50:32 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b7.0

<< General Method Parameters >>

No items selected for this section

<< A >>

No items selected for this section

Integration Events

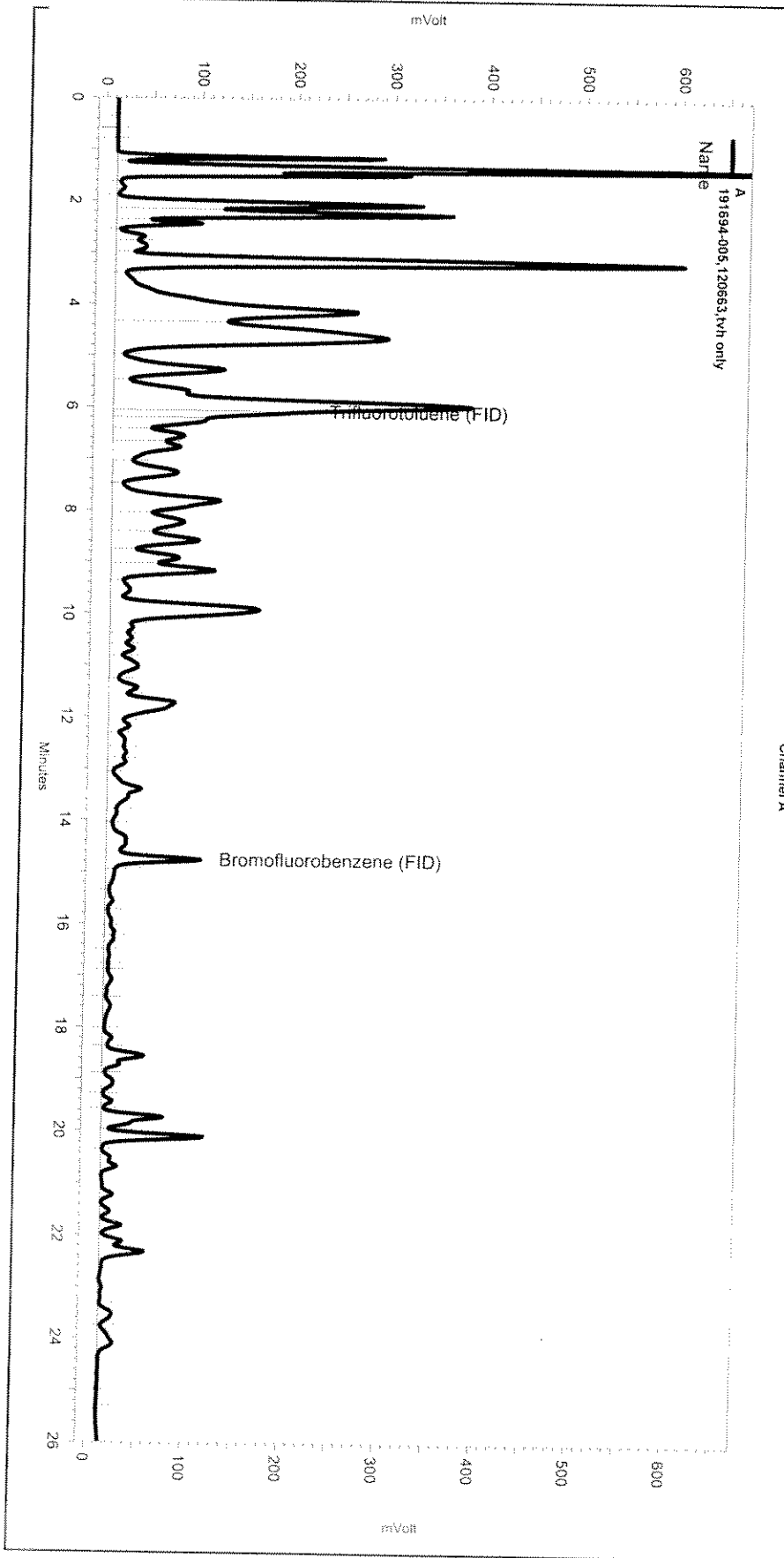
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.06	0	0
Yes	Split Peak	6.203	0	0
Yes	Split Peak	14.944	0	0

M-1



Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\361.seq
 Sample Name: 191694-006,120722,10x,tvh only
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\361_006
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lims2k3\TVH2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTX6352.met

Software Version 3.1.7
 Run Date: 12/27/2006 3:56:41 PM
 Analysis Date: 12/28/2006 9:08:08 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: c7.0

<< General Method Parameters >>

No items selected for this section

<< A >>

No items selected for this section

Integration Events

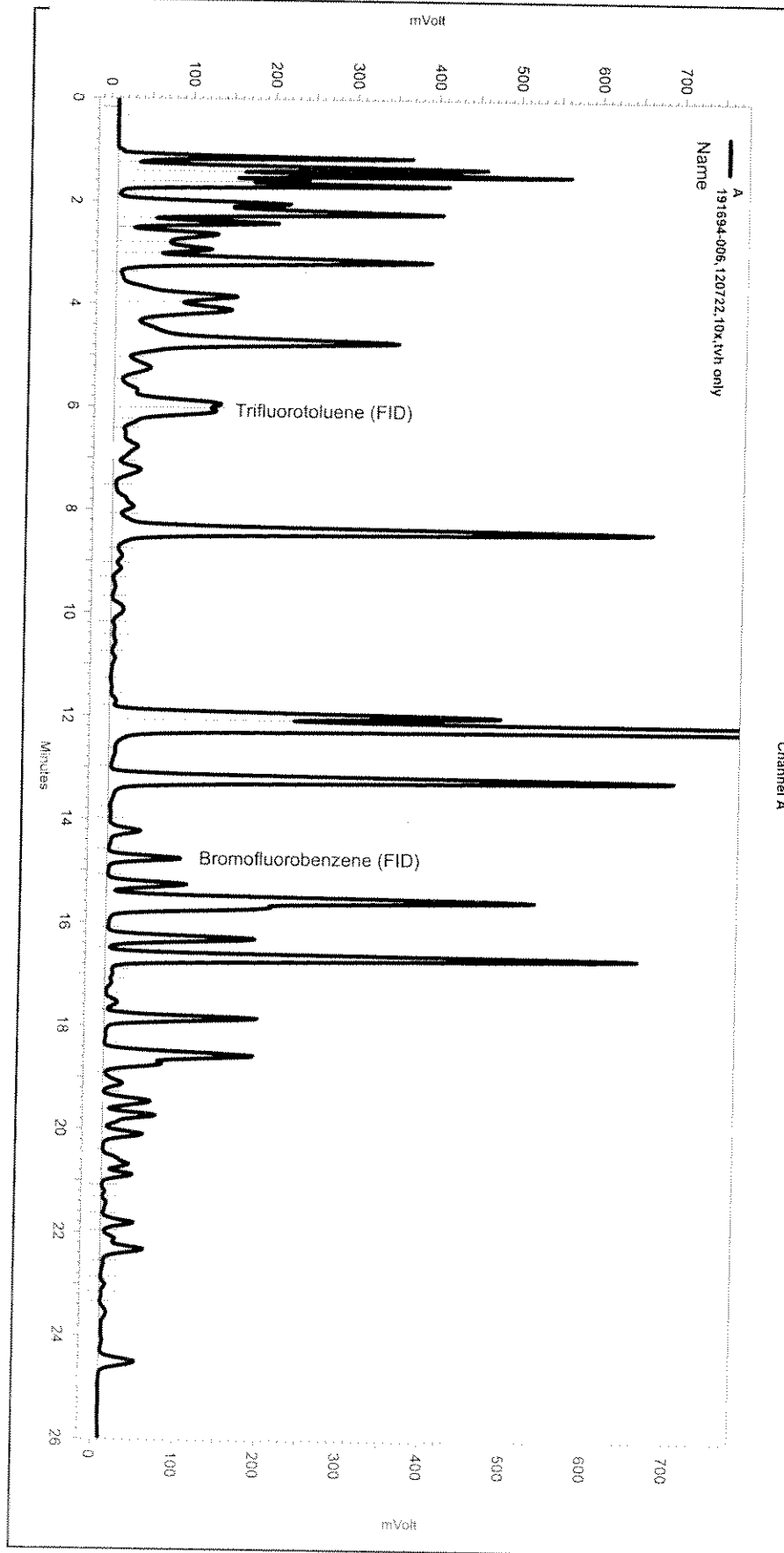
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\361_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.016	0	0
Yes	Split Peak	6.227	0	0

P-2



Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\356.seq
 Sample Name: ccv\lcs,qc369503,120663,s4953,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_002
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lms2k3\lth2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lthbtxe352.met

Software Version 3.1.7
 Run Date: 12/22/2006 10:18:33 AM
 Analysis Date: 12/27/2006 12:41:31 PM
 Sample Amount: 5 Multiplier: 5
 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

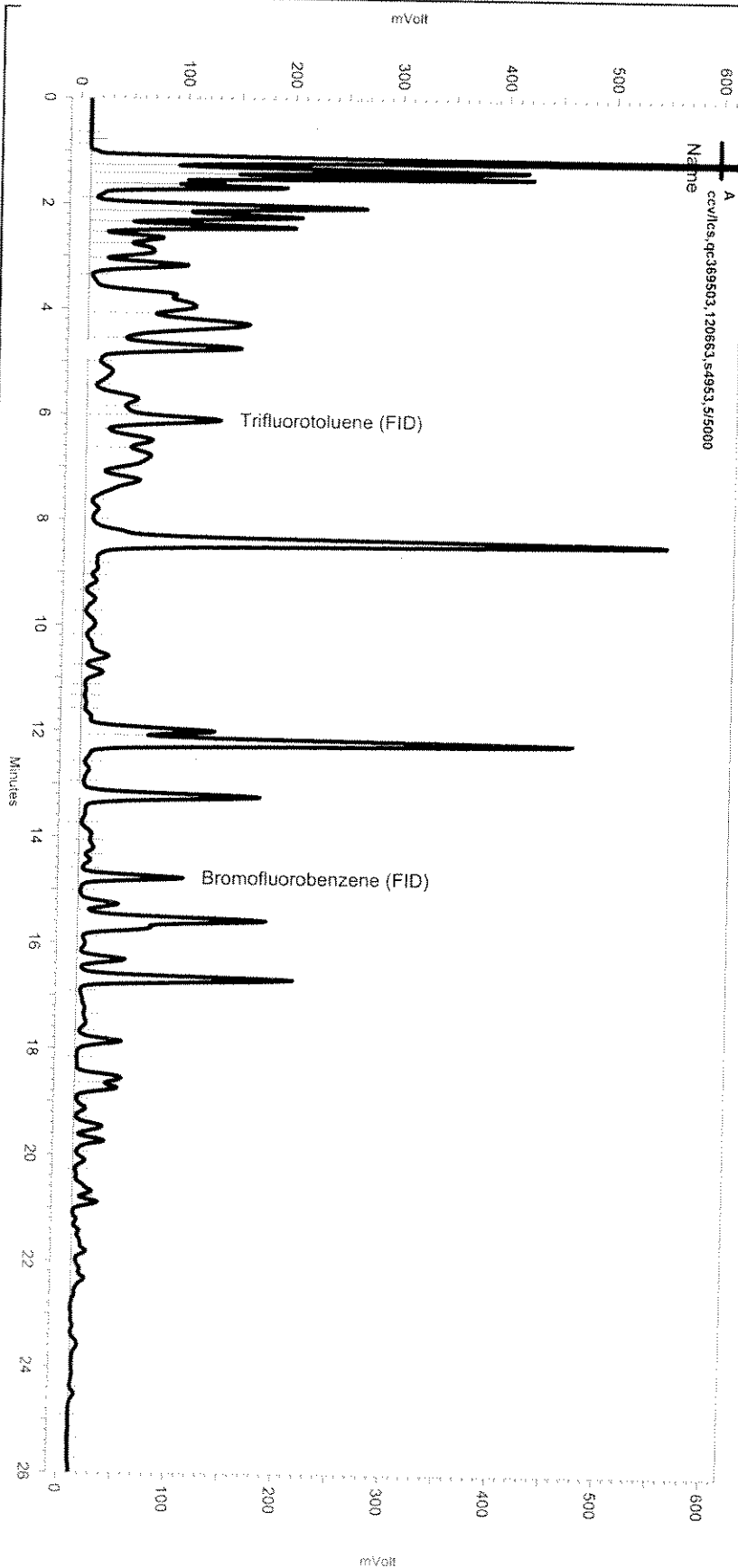
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\356_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.017	0	0

gasoline



Channel A

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC369503	Batch#:	120663
Matrix:	Water	Analyzed:	12/22/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,918	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	69-137
Bromofluorobenzene (FID)	111	80-133

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC369718	Batch#:	120722
Matrix:	Water	Analyzed:	12/27/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,779	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	69-137
Bromofluorobenzene (FID)	112	80-133

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Field ID:	M-5	Batch#:	120663
MSS Lab ID:	191694-001	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/23/06
Diln Fac:	1.000		

Type: MS Lab ID: QC369506

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.19	2,000	1,748	86	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	69-137
Bromofluorobenzene (FID)	104	80-133

Type: MSD Lab ID: QC369507

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,804	89	80-120	3	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	69-137
Bromofluorobenzene (FID)	112	80-133

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	120722
MSS Lab ID:	191735-002	Sampled:	12/22/06
Matrix:	Water	Received:	12/22/06
Units:	ug/L	Analyzed:	12/28/06
Diln Fac:	1.000		

Type: MS Lab ID: QC369719

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	12.93	2,000	1,612	80	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	69-137
Bromofluorobenzene (FID)	104	80-133

Type: MSD Lab ID: QC369720

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,751	87	80-120	8	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	69-137
Bromofluorobenzene (FID)	109	80-133

Total Extractable Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 3520C
Project#:	838.006	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/20/06
Units:	ug/L	Received:	12/21/06
Diln Fac:	1.000	Prepared:	12/22/06
Batch#:	120670		

Field ID:	M-5	Analyzed:	12/27/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-001		

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-130

Field ID:	M-6	Analyzed:	12/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-002		

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-130

Field ID:	P-1	Analyzed:	12/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-003		

Analyte	Result	RL
Diesel C10-C24	200 L Y	50
Motor Oil C24-C36	ND	300

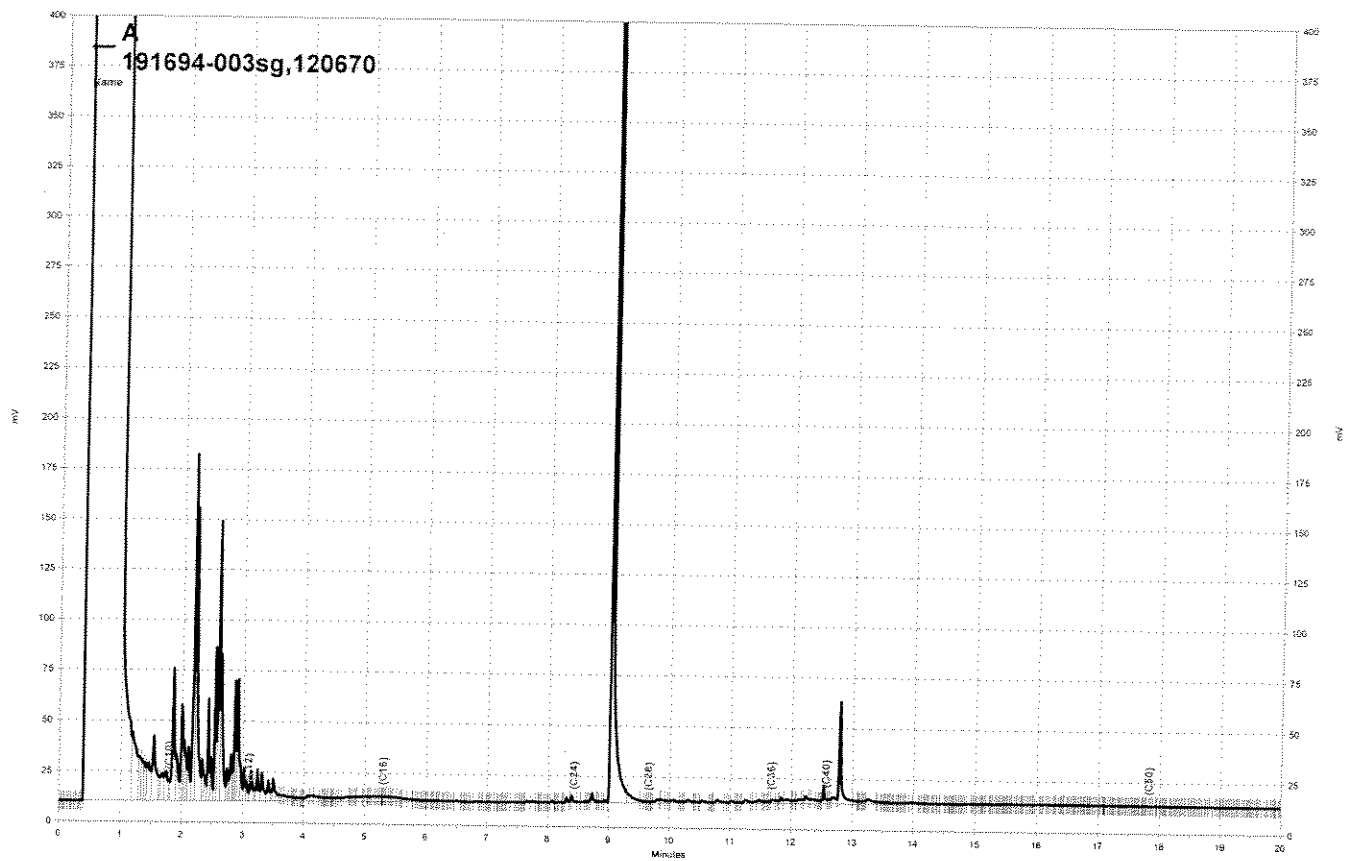
Surrogate	%REC	Limits
Hexacosane	87	65-130

Field ID:	M-4	Analyzed:	12/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-004		

Analyte	Result	RL
Diesel C10-C24	140 L Y	50
Motor Oil C24-C36	ND	300

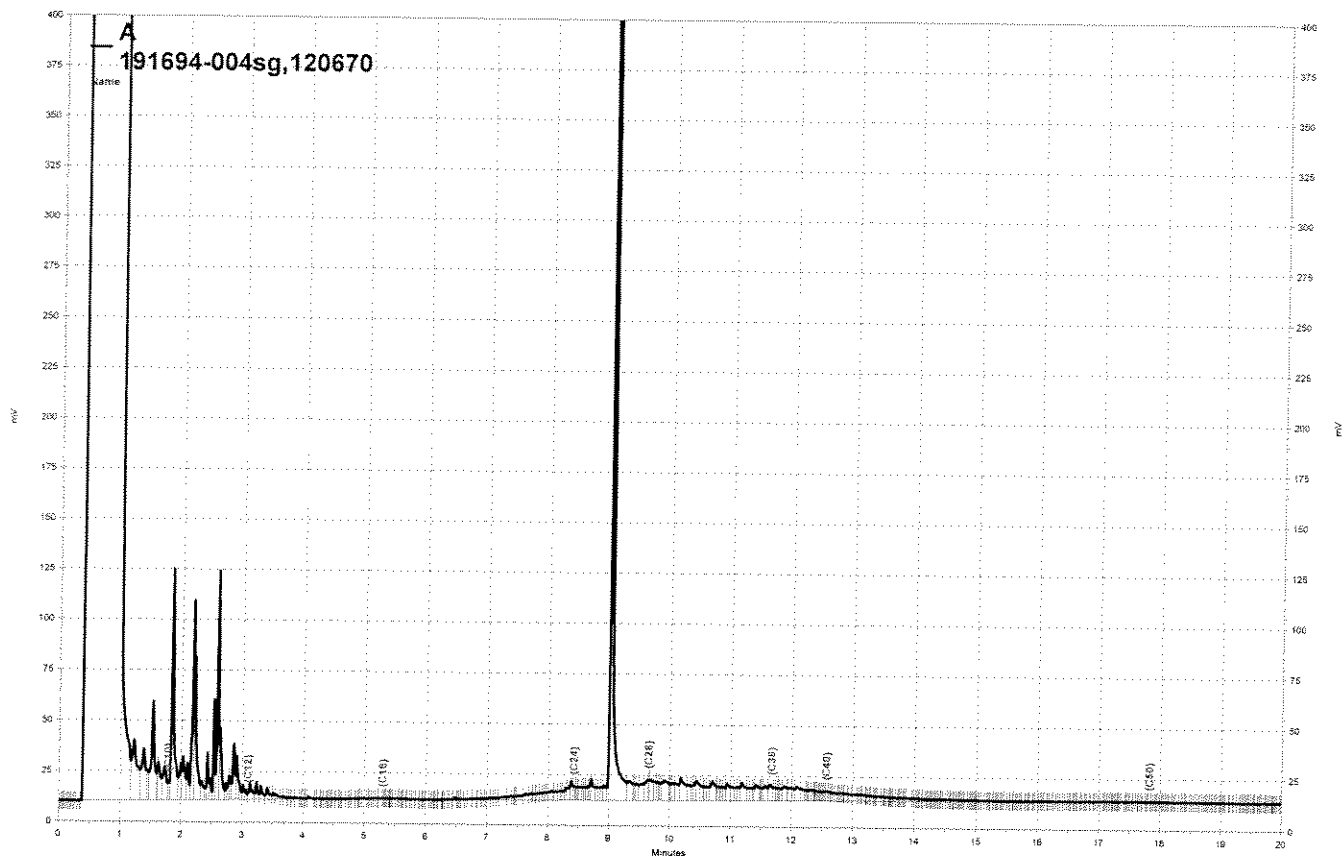
Surrogate	%REC	Limits
Hexacosane	96	65-130

L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\362a015, A

P-1



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\362a016, A

M-4

Total Extractable Hydrocarbons

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 3520C
Project#:	838.006	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/20/06
Units:	ug/L	Received:	12/21/06
Diln Fac:	1.000	Prepared:	12/22/06
Batch#:	120670		

Field ID:	M-1	Analyzed:	12/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-005		

Analyte	Result	RL
Diesel C10-C24	220 L Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-130

Field ID:	P-2	Analyzed:	12/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	191694-006		

Analyte	Result	RL
Diesel C10-C24	4,200 L Y	50
Motor Oil C24-C36	ND	300

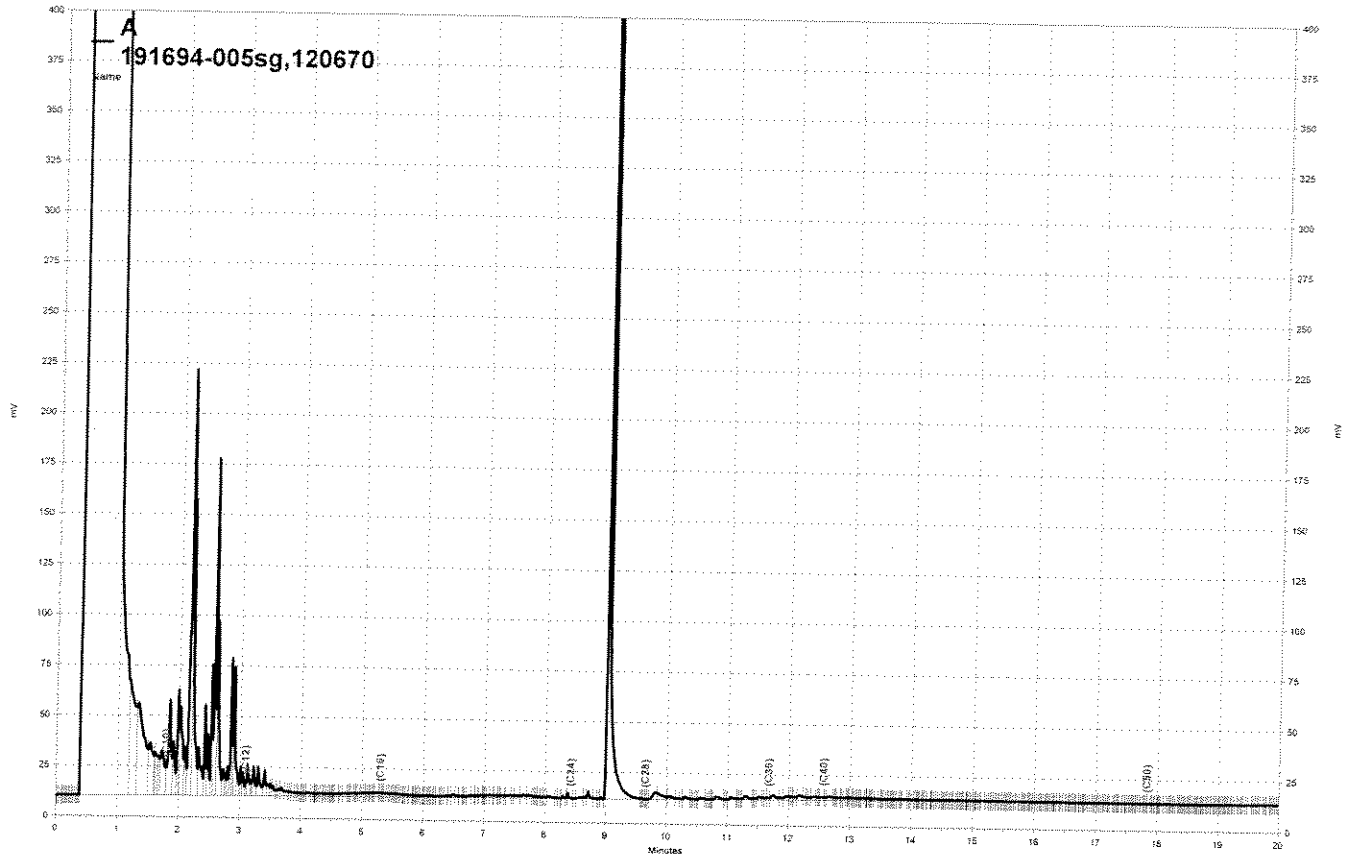
Surrogate	%REC	Limits
Hexacosane	100	65-130

Type:	BLANK	Analyzed:	12/27/06
Lab ID:	QC369528	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-130

L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

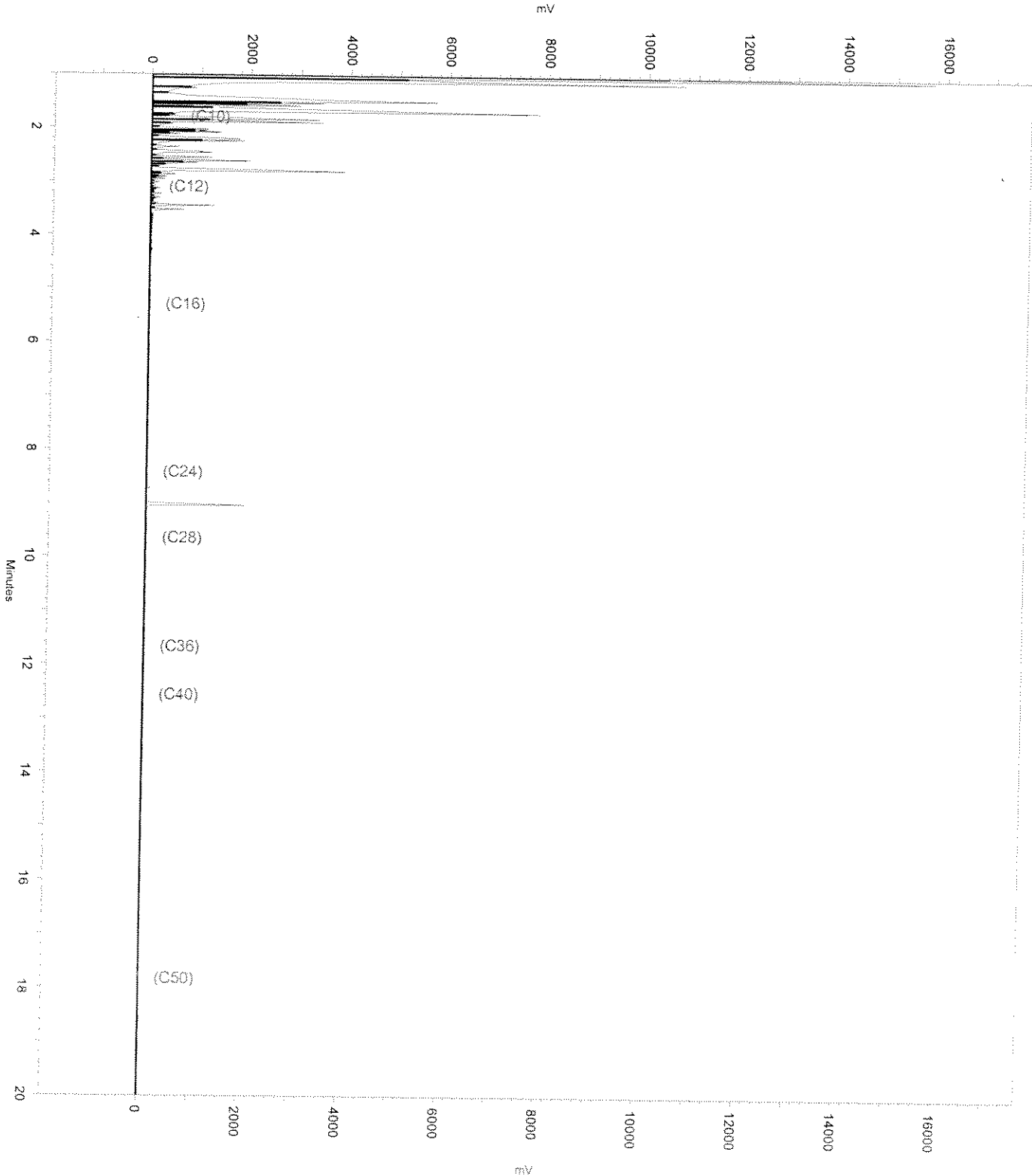


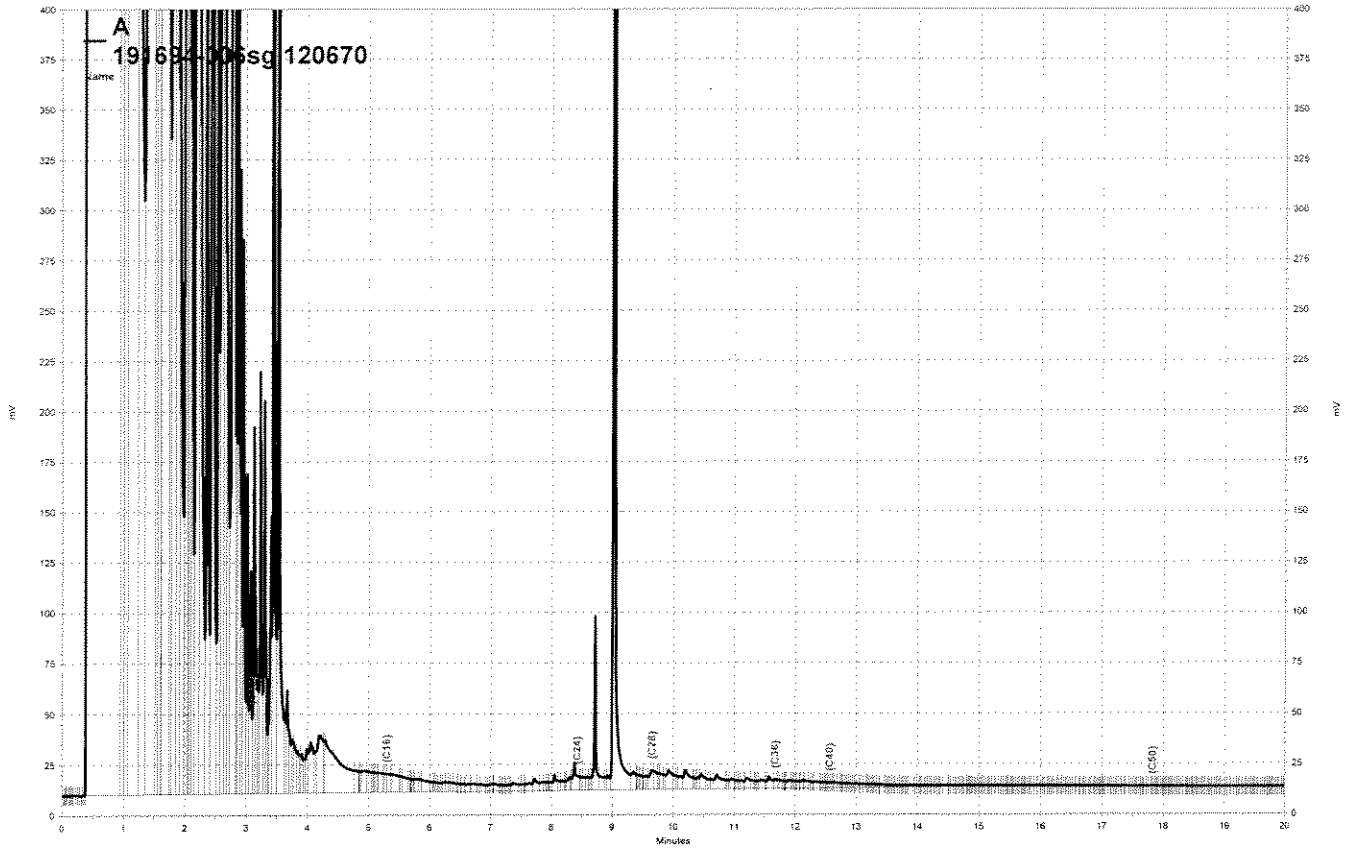
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M-1

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Software Version 3.1.7
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Run Date: 12/28/2006 6:15:42 PM
Analysis Date: 12/29/2006 9:28:38 AM
Instrument: GC17A Vial: 18 Operator: Teh 3. Analyst: (lims2k3\teh3)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

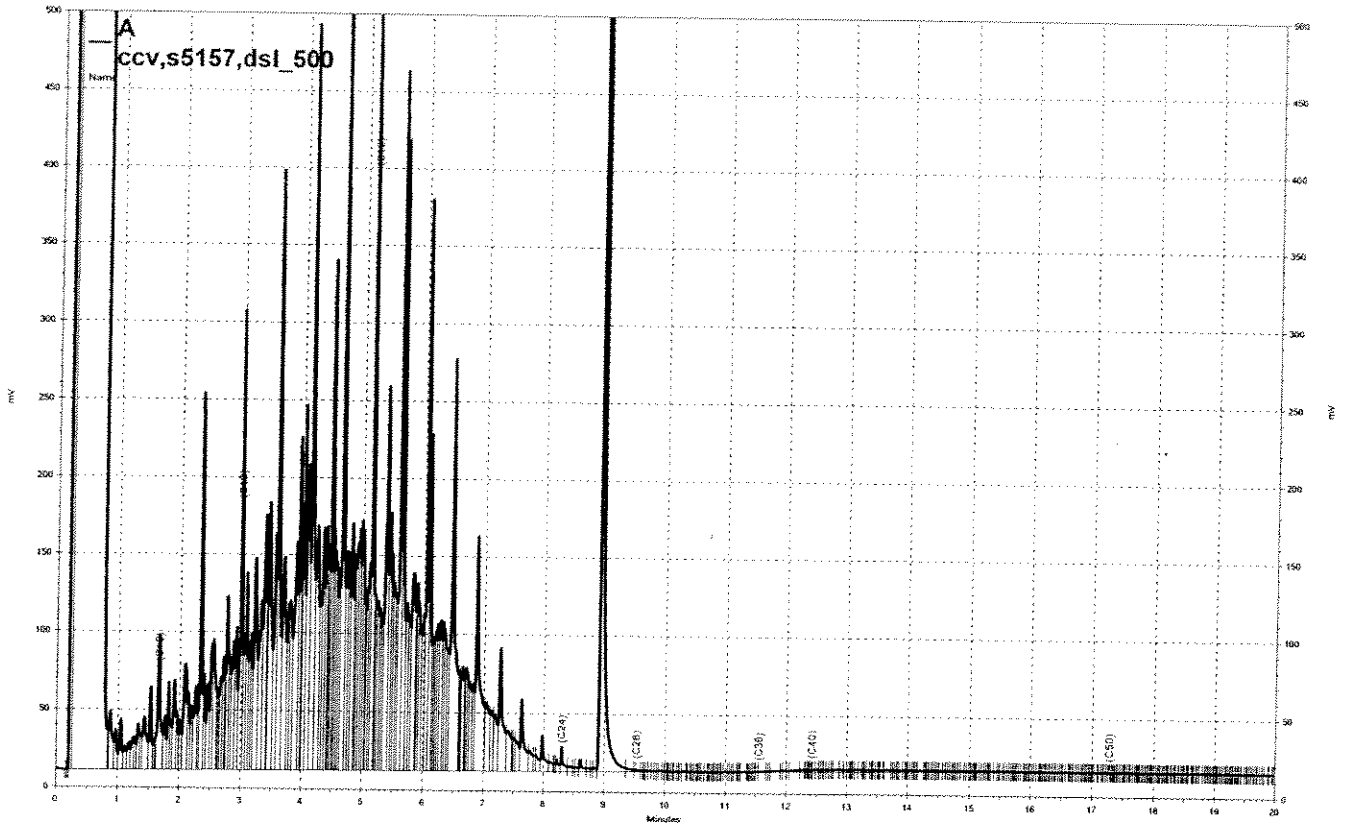
P-2





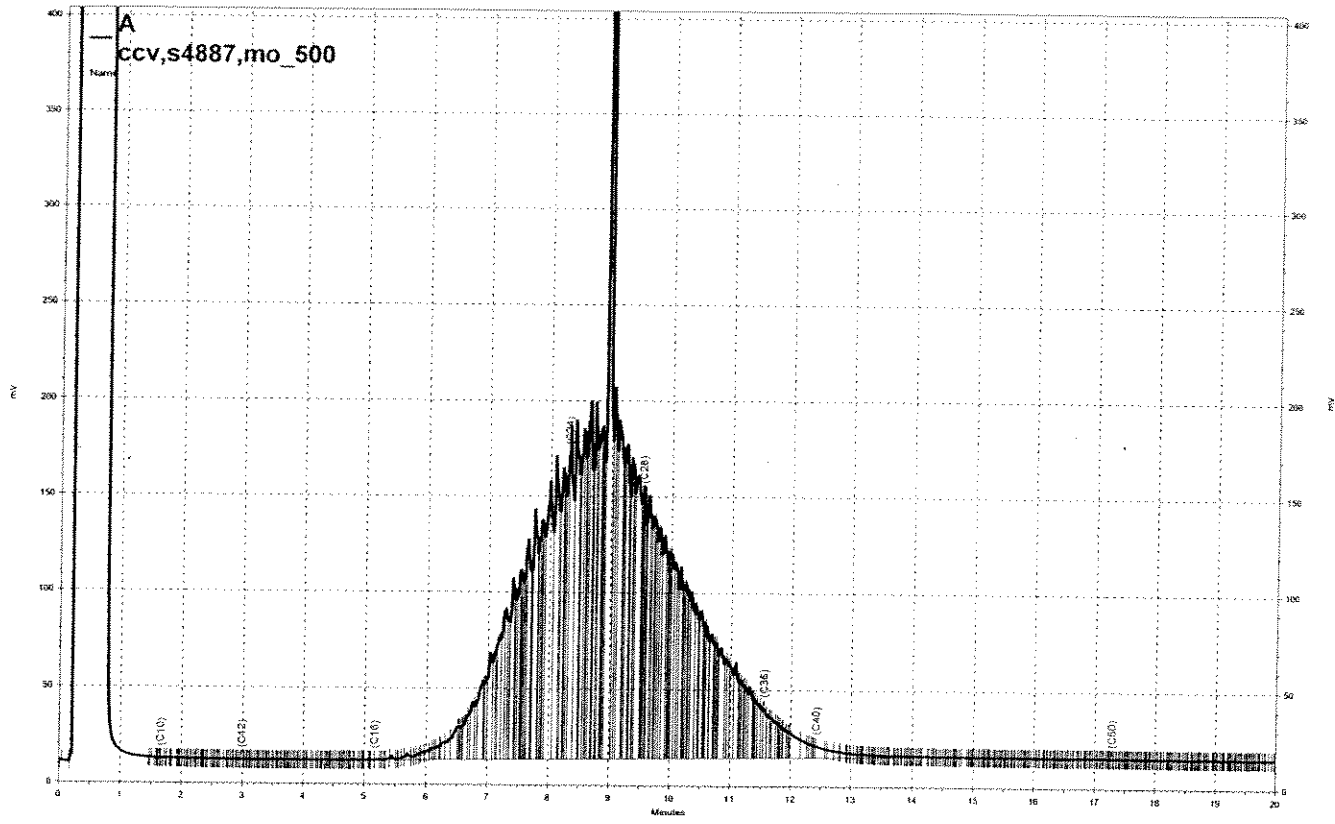
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p-2



\\Lims\drive\ezchrom\Projects\GC11A\Data\361a002, A

diesel



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Motor oil

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 3520C
Project#:	838.006	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC369529	Batch#:	120670
Matrix:	Water	Prepared:	12/22/06
Units:	ug/L	Analyzed:	12/27/06

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,303	92	61-133

Surrogate	%REC	Limits
Hexacosane	83	65-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 3520C
Project#:	838.006	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	120670
MSS Lab ID:	191600-012	Sampled:	12/19/06
Matrix:	Water	Received:	12/19/06
Units:	ug/L	Prepared:	12/22/06
Diln Fac:	1.000	Analyzed:	12/27/06

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC369530

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<20.89	2,500	2,416	97	55-134

Surrogate	%REC	Limits
Hexacosane	102	65-130

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC369531

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,396	96	55-134	1	27

Surrogate	%REC	Limits
Hexacosane	102	65-130

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	M-5	Batch#:	120753
Lab ID:	191694-001	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/28/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	107	80-130
Toluene-d8	97	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected
 RL= Reporting Limit

**BTXE & Oxygenates**

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	M-6	Batch#:	120753
Lab ID:	191694-002	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/28/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	107	80-130
Toluene-d8	97	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected

RL= Reporting Limit

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	P-1	Batch#:	120796
Lab ID:	191694-003	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	82	10
MTBE	6.0	0.5
Isopropyl Ether (DIPE)	2.5	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	70	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	0.7	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	2.4	0.5
m,p-Xylenes	1.4	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	97	80-130
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-122

ND= Not Detected
 RL= Reporting Limit

**BTXE & Oxygenates**

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	M-4	Batch#:	120753
Lab ID:	191694-004	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/28/06
Diln Fac:	6.250		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	63
MTBE	ND	3.1
Isopropyl Ether (DIPE)	ND	3.1
Ethyl tert-Butyl Ether (ETBE)	ND	3.1
1,2-Dichloroethane	ND	3.1
Benzene	430	3.1
Methyl tert-Amyl Ether (TAME)	ND	3.1
Toluene	ND	3.1
1,2-Dibromoethane	ND	3.1
Ethylbenzene	ND	3.1
m,p-Xylenes	9.2	3.1
o-Xylene	ND	3.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	116	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	114	80-122

ND= Not Detected

RL= Reporting Limit

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	M-1	Batch#:	120796
Lab ID:	191694-005	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	2.2	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	95	80-130
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Field ID:	P-2	Batch#:	120796
Lab ID:	191694-006	Sampled:	12/20/06
Matrix:	Water	Received:	12/21/06
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	33.33		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	330
MTBE	ND	17
Isopropyl Ether (DIPE)	ND	17
Ethyl tert-Butyl Ether (ETBE)	ND	17
1,2-Dichloroethane	ND	17
Benzene	990	17
Methyl tert-Amyl Ether (TAME)	ND	17
Toluene	2,200	17
1,2-Dibromoethane	ND	17
Ethylbenzene	1,700	17
m,p-Xylenes	5,200	17
o-Xylene	2,500	17

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	99	80-130
Toluene-d8	103	80-120
Bromofluorobenzene	96	80-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC369843	Batch#:	120753
Matrix:	Water	Analyzed:	12/28/06
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	97	80-130
Toluene-d8	95	80-120
Bromofluorobenzene	105	80-122

ND= Not Detected

RL= Reporting Limit



Batch QC Report

BTXE & Oxygenates			
Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC370027	Batch#:	120796
Matrix:	Water	Analyzed:	12/29/06
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-120
1,2-Dichloroethane-d4	113	80-130
Toluene-d8	110	80-120
Bromofluorobenzene	101	80-122

ND= Not Detected

RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120753
Units:	ug/L	Analyzed:	12/28/06
Diln Fac:	1.000		

Type: BS Lab ID: QC369841

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	120.8	97	64-141
MTBE	25.00	23.99	96	72-120
Isopropyl Ether (DIPE)	25.00	22.09	88	68-123
Ethyl tert-Butyl Ether (ETBE)	25.00	28.47	114	77-129
1,2-Dichloroethane	25.00	29.31	117	77-120
Benzene	25.00	23.13	93	80-120
Methyl tert-Amyl Ether (TAME)	25.00	23.26	93	77-120
Toluene	25.00	25.35	101	80-120
1,2-Dibromoethane	25.00	27.66	111	80-120
Ethylbenzene	25.00	26.52	106	80-120
m,p-Xylenes	50.00	51.86	104	80-121
o-Xylene	25.00	25.75	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	114	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	107	80-122

Type: BSD Lab ID: QC369842

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	113.7	91	64-141	6	22
MTBE	25.00	22.84	91	72-120	5	20
Isopropyl Ether (DIPE)	25.00	21.41	86	68-123	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	27.71	111	77-129	3	20
1,2-Dichloroethane	25.00	27.55	110	77-120	6	20
Benzene	25.00	21.98	88	80-120	5	20
Methyl tert-Amyl Ether (TAME)	25.00	21.98	88	77-120	6	20
Toluene	25.00	24.14	97	80-120	5	20
1,2-Dibromoethane	25.00	25.79	103	80-120	7	20
Ethylbenzene	25.00	25.41	102	80-120	4	20
m,p-Xylenes	50.00	49.63	99	80-121	4	20
o-Xylene	25.00	24.62	98	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	107	80-130
Toluene-d8	97	80-120
Bromofluorobenzene	108	80-122

Batch QC Report

BTXE & Oxygenates

Lab #:	191694	Location:	2801 MacArthur Blvd.
Client:	Fugro West Inc.	Prep:	EPA 5030B
Project#:	838.006	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120796
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	1.000		

Type: BS Lab ID: QC370025

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	122.4	98	64-141
MTBE	25.00	22.20	89	72-120
Isopropyl Ether (DIPE)	25.00	22.22	89	68-123
Ethyl tert-Butyl Ether (ETBE)	25.00	23.93	96	77-129
1,2-Dichloroethane	25.00	23.71	95	77-120
Benzene	25.00	27.50	110	80-120
Methyl tert-Amyl Ether (TAME)	25.00	22.87	91	77-120
Toluene	25.00	26.61	106	80-120
1,2-Dibromoethane	25.00	24.46	98	80-120
Ethylbenzene	25.00	27.87	111	80-120
m,p-Xylenes	50.00	55.46	111	80-121
o-Xylene	25.00	27.99	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	99	80-130
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-122

Type: BSD Lab ID: QC370026

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	135.4	108	64-141	10	22
MTBE	25.00	21.08	84	72-120	5	20
Isopropyl Ether (DIPE)	25.00	21.27	85	68-123	4	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.02	88	77-129	8	20
1,2-Dichloroethane	25.00	24.04	96	77-120	1	20
Benzene	25.00	28.53	114	80-120	4	20
Methyl tert-Amyl Ether (TAME)	25.00	22.88	92	77-120	0	20
Toluene	25.00	27.43	110	80-120	3	20
1,2-Dibromoethane	25.00	24.67	99	80-120	1	20
Ethylbenzene	25.00	29.13	117	80-120	4	20
m,p-Xylenes	50.00	56.45	113	80-121	2	20
o-Xylene	25.00	28.53	114	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	103	80-130
Toluene-d8	105	80-120
Bromofluorobenzene	95	80-122