

URS Greiner Woodward Clyde

A Division of URS Corporation

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Offices Worldwide

April 20, 1999
41-07099010.00

STD 3928

Mr. Larry Brown
Fleet Superintendent
Interstate Brands Corporation
1324 Arden Way
Sacramento, California 95815

Subject: Soil and Groundwater Sampling and Semi-annual Groundwater
Monitoring Report, First Quarter 1999 Facility Located at 945 53rd Street,
Oakland, California

Dear Mr. Brown:

We are pleased to present this report which presents the results of groundwater monitoring for the first quarter of 1999 at the subject site. In addition, as requested by Ms. Susan Hugo, Alameda County Health Agency, we present the results of soil and groundwater sampling at two upgradient borings (A and B) at the site. The borings were drilled to provide soil and groundwater information to support an evaluation of this site for closure. Ms. Almudena Villanueva, URSGWC engineer, observed the soil borings.

SCOPE OF WORK

Borings

Two soil borings were drilled at the locations, shown on the attached Figure 1, using Envirocore drilling methods. The Envirocore method involves continuous drive sampling as a method of drilling. Soil samples are collected in sample liners and are removed, sealed with plastic end caps, and labeled and placed on-ice in an ice chest. When the desired depth is reached for groundwater sampling a central drill rod is removed and a PVC well screen is placed in the boring through the hollow outer drill rod. The drill rod is raised to expose the well screen and a water sample is obtained using teflon tubing and a peristaltic pump.

Monitoring Wells

After measuring the static groundwater levels, Environmental Sampling Services, Inc., removed 3 to 5 casing volumes of water from the three wells on the site. After purging a groundwater sample was obtained from each well using a clean bailer or teflon tubing and peristaltic pump. Water samples were placed in clean containers supplied by ChromaLab. The groundwater samples were labeled place on-ice and transported in an ice chest under chain of custody procedures to the laboratory.

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Field measurements of dissolved oxygen and pH were made for water from two wells (MW-1 and MW-3).

EXPLORATORY BORINGS

Two exploratory borings were drilled at upgradient locations as shown on Figure 1. These borings were drilled to explore the upgradient soil and groundwater conditions in support of site closure activities. Boring A encountered a gray clayey gravelly sand from the surface to a depth of about 12 feet where a one foot layer of greenish gravelly clayey sand was encountered. The soil became wet below about 13 feet in Boring A. A drive sample of soil (IBC-S-3-9-A) was collected at a depth of 12 feet. Silty sand extended from about 16 feet to 24 feet, where clayey sand with gravel was encountered. The boring extended to a depth of about 25 feet in order to obtain sufficient groundwater for sampling.

Boring B was drilled about 60 feet west of Boring A, as shown on Figure 1. A similar gravelly clayey sand was encountered in Boring A to the total depth of the boring at 31 feet. The soil became wet below a depth of about 13 feet. Soil sample (IBC-S-3-9-B) was collected with the drive sampler at a depth of 12 1/2 to 13 feet. Because of the clayey nature of the soil the boring was drilled to a depth of 31 feet in order to obtain sufficient groundwater for sampling. Logs of Borings A and B are attached for reference. Borings were filled with cement/bentonite grout after completion of sampling.

Laboratory Reports

The soil samples were submitted to the laboratory for analyses for Total Petroleum Hydrocarbons (TPH) as gasoline, diesel, BTEX and MTBE. Groundwater samples were analyzed for the same analytes. As shown in Table 1, TPH as diesel, gasoline, MTBE and BTEX were not detected in the two soil samples above their reporting limits. In addition the laboratory reports no detection of TPH diesel, gasoline, MTBE, or BTEX in water from Boring B. No TPH diesel, MTBE, benzene, toluene or ethylbenzene were reported above the laboratory reporting limit for water from Boring A. Low concentrations of TPH gasoline (74 ug/l) and xylene (0.98 ug/l) were reported in groundwater from Boring A.

GROUNDWATER MONITORING

Records of groundwater well purging and sampling are attached in the Environmental Sampling Services Field Activity Report. Groundwater levels were measured prior to purging of each monitoring well. The groundwater gradient indicates a southwest flow direction, as shown on Figure 1. The groundwater levels are shown in Table 1. The groundwater elevations are more than one foot higher than those measured in 1998.

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Laboratory Reports

As shown in Table 1 TPH diesel was not detected in groundwater from wells MW-2 and MW-3. TPH diesel is reported at 2,600 ug/l in groundwater from well MW-1. The laboratory did not report detection of TPH gasoline, MTBE, or BTEX above the reporting limits for groundwater from wells MW-2 or MW-3. In groundwater from MW-1 the laboratory reports TPH gasoline at 9,800 ug/l, MTBE at less than 250 ug/l, benzene at 58 ug/l, toluene at 130 ug/l, ethylbenzene at 810 ug/l and xylenes at 2,900 ug/l.

The concentrations reported by the laboratory for this 1999 sampling can be compared to the summary table (Emcon, Table 1) from the December 17, 1998 Emcon report, attached. The increases in TPH gasoline, diesel and BTEX in water from well MW-1 appear to correspond to historical seasonal high water levels.

CONCLUSIONS

The results of analyses of soil samples indicate that there is no evidence of petroleum soil contamination in the vicinity of borings A and B. Groundwater containing petroleum hydrocabons appear to be localized within the area of well MW-1, with low levels of TPH gasoline (74 ug/l) and xylene (0.98 ug/l) in water from Boring A. The groundwater gradient is towards the southwest, which is consistent with historical groundwater gradients.

Please call if you have any questions.

Sincerely,

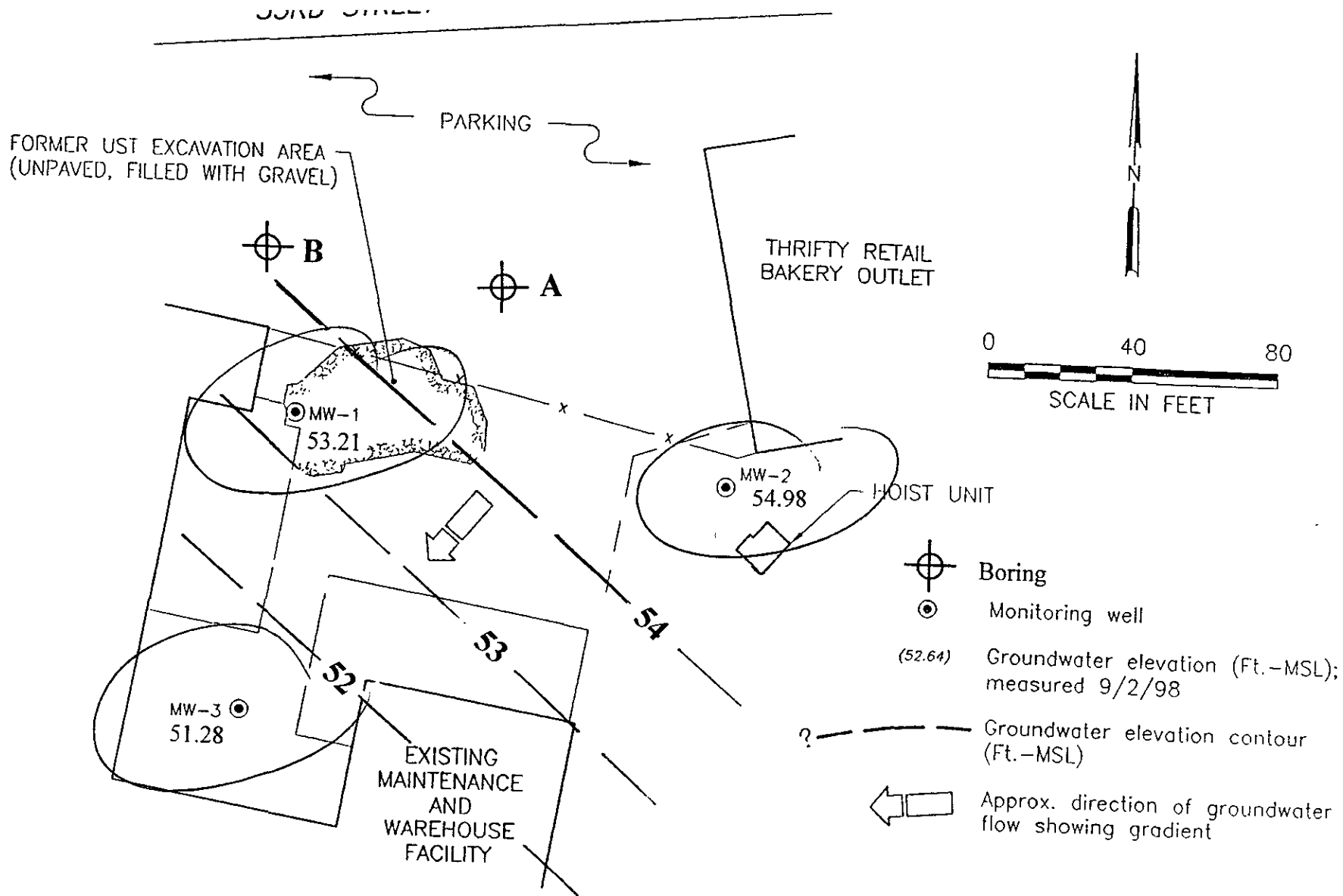


Albert P. Ridley, C.E.G.
Senior Project Manager

Attachments: Table 1 Summary of Laboratory Reports
Figure 1 Groundwater Elevation Contours
Logs of Borings A and B
Table 1 from Emcon Report, 1998
Environmental Sampling Services Field Activity Report
Laboratory Reports, Chromalab

TABLE 1
SUMMARY OF LABORATORY REPORTS
IBC Facility, 945 53rd Street, Oakland, CA

Well No.	Sample No.	Type	Date	Top of Casing	Depth to Water	Groundwater elevation	TPH diesel	TPH gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Sulfate	Dissolved Oxygen
Boring A	IBC-S-3-9-A	Soil	3/9/99												
Boring B	IBC-S-3-9-B	Soil	3/9/99												
							Soil reported in mg/kg								
							<1.0	<1.0	<.005	<.005	<.005	<.005	<.005		
							<1.0	<1.0	<.005	<.005	<.005	<.005	<.005		
							Water reported in ug/l								
Boring A	IBC-W-3-9-A	Water	3/9/99				<50	0.074	<0.5	1	<0.5	0.98	<5.0		
Boring B	IBC-W-3-9-B	Water	3/9/99				<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0		
MW-1	MW-1	Water	3/23/99	61.84	8.63	53.21	<50	9,800	58	130	810	2,900	<250		
MW-2	MW-2	Water	3/23/99	63.1	8.12	54.98	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
MW-3	MW-3	Water	3/23/99	62.51	11.23	51.28	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
													reported in mg/l		
													11mg/l	2.1mg/l	
													na	4.2mg/l	
													23mg/l	2.1mg/l	



Project No. 41-070990+0.00	IBC 945 53rd Street, Oakland California	GROUNDWATER ELEVATION CONTOURS	Figure 1
URS GREINER WOODWARD-CLYDE			

IBC, Oakland, California

BORING LOCATION: 945 53rd Street, Oakland			GROUND SURFACE ELEVATION (ft): 62 (approx) TOP OF WELL CASING ELEVATION (ft): N/A				
DRILLING AGENCY	Precision Sampling	DRILLER	DATE STARTED:	3/9/99	DATE FINISHED:	3/9/99	
DRILLING EQUIPMENT	Envirocore	COMPLETION DEPTHS		BORING: 25.0 (ft)	WELL: N/A (ft)		
DRILLING METHOD	Continuous Sample	DRILL BIT	2-1/4 in	SAMPLING METHOD: Bottles and Polycarbonate Tubes, Teflon Tape and Endcaps			
SIZE AND TYPE OF CASING	Temporary 3/4"-dia. screened PVC Used for Water Sampling			NUMBER OF SAMPLES	SOIL.: 1	GROUNDWATER: 1	
TYPE OF PERFORATION	0.010 inch	FROM 15' TO 25'		WATER DEPTH (ft)	FIRST: N/A	COMPL.: 24' 24 hr.: N/A	
SIZE AND TYPE OF PACK	N/A	FROM N/A TO N/A		LOGGED BY	A.Giangerelli	CHECKED BY	A.Ridley
TYPE OF SEAL	TYPE		FR	TO	TYPE		LOG OF BORING A (Sheet 1 of 1)
	No. 1: Portland Cement/Bentonite Mix		0	25'	No. 3: N/A		
	No. 2: N/A		N/A	N/A	No. 4: N/A		

DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	ELEVATION (feet) (approx)	WELL GRAPHIC	OVM Reading (soil), ppm	OVM Reading (airspace), ppm	WATER LEVEL	DEPTH (feet)	SAMPLES			INDEX PROPERTIES				NOTES
									NUMBER	TIME	SAMPLED	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)		
0		Clayey SAND (SC) with gravel Moist, gray	60													Start: 1515
5			55													
10		Damp, greenish gray	50													
15		Wet, brownish colored, increase in clay content, larger gravel size	45						1	1550	IBC-S-3-9-A					
20		Silty SAND (SM) Brown, wet, sand content increases with depth	40													Water Table Water sample collected at 1655
25		Clayey SAND (SC) with gravel Becomes wet with depth BOTTOM OF BORING AT 25 FEET	35													End: 1730 Grouted Boring
30			30													
35																

IBC, Oakland, California

BORING LOCATION: 945 53rd Street, Oakland				GROUND SURFACE ELEVATION (ft): 62 (approx) TOP OF WELL CASING ELEVATION (ft): N/A			
DRILLING AGENCY: Precision Sampling		DRILLER:		DATE STARTED: 3/9/99		DATE FINISHED: 3/9/99	
DRILLING EQUIPMENT: Envirocore				COMPLETION BORING: 31.0 (ft)		WELL: N/A (ft)	
DRILLING METHOD: Continuous Sample		DRILL BIT 2-1/4 in		SAMPLING METHOD: Bottles and Polycarbonate Tubes, Teflon Tape and Endcaps			
SIZE AND TYPE OF CASING: Temporary 3/4"-dia. screened PVC Used for Water Sampling				NUMBER OF SAMPLES SOIL.: 1		GROUNDWATER: 1	
TYPE OF PERFORATION: 0.010 inch		FROM 21' TO 31'		WATER DEPTH (ft) FIRST: N/A		COMPL.: 28	
SIZE AND TYPE OF PACK: N/A		FROM N/A TO N/A		LOGGED BY: A.Giangerelli		CHECKED BY: A.Ridley	
TYPE OF SEAL		TYPE		FR		TO	
No. 1: Portland Cement/Bentonite Mix		0		31'		No. 3: N/A	
No. 2: N/A		N/A		N/A		No. 4: N/A	

LOG OF BORING B (Sheet 1 of 1)

DEPTH (feet)	SOIL GRAPHIC	MATERIAL DESCRIPTION	ELEVATION (feet) (approx)	WELL GRAPHIC	OVM Reading (soil), ppm	OVM Reading (airspace), ppm	WATER LEVEL	DEPTH (feet)	SAMPLES			INDEX PROPERTIES				NOTES
									NUMBER	TIME SAMPLED	SAMPLE ID	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)		
0		Clayey SAND (SC) with gravel Moist, brown														Start: 1710
5			-60					5								
10		Wet outside the tube at 10 feet	-55					10								
15		Becoming wet	-50					15	1	1800	IBC-S-3-9-B					Drilled directly to 25'
20			-45					20								Water sample collected at 1900 to 1915
25			-40					25								
30		Wet	-35					30								
35		BOTTOM OF BORING AT 31 FEET	-30													Grouted Boring End: 1955

Table 1

Groundwater Monitoring Data
Interstate Brands Corporation
1010 46th Street
Oakland, California

Well	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL*)	TPH Diesel (µg/L)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total Oil & Grease (mg/L)	MTBE (µg/L)			
MW-1	05/26/94	61.84	9.27	52.57	1,300	12,000	57	340	370	3,100	<5.0	NA			
MW-1	07/29/94	61.84	9.81	52.03	NA	NA	NA	NA	NA	NA	NA	NA			
MW-1	08/26/94	61.84	9.87	51.97	510/650 [1]	6,700/8,400	22/35	71/97	310/410	1,000/1,400	<5.0/<5.0	NA			
MW-1	10/04/94	61.84	9.89	51.95	NA	NA	NA	NA	NA	NA	NA	NA			
MW-1	10/27/94	61.84	9.94	51.90	NA	NA	NA	NA	NA	NA	NA	NA			
MW-1	11/30/94	61.84	8.92	52.92	1,300	29,000	480	1,100	1,200	5,300	<5.0	NA			
MW-1	01/03/95	61.84	8.79	53.05	NA	NA	NA	NA	NA	NA	NA	NA			
MW-1	01/31/95	61.84	8.33	53.51	NA	NA	NA	NA	NA	NA	NA	NA			
MW-1	03/16/95	61.84	8.07	53.77	1,900	29,000	140	1,400	1,800	9,700	<5.0	NA			
MW-1	06/12/95	61.84	9.02	52.82	810/540 [1]	3,900/11,000	23/280	57/610	200/400	680/2,000	<5.0/<5.0	NA			
MW-1	08/30/95	61.84	9.44	52.40	350 [1]	3,300	26	36	250	490	<5.0	NA			
MW-1	11/29/95	61.84	9.93	51.91	270	1,700	20	21	110	210	<5.0	NA			
MW-1	03/06/96	61.84	8.37	53.47	2,500/2,400 [1]	39,000/38,000	690/1,000	1,800/2,000	2,300/2,300	14,000/15,000	5.9	NA			
MW-1	07/08/96	61.84	9.10	52.74	670/580 [1]	3,000/2,600	89/9.5	79/85	140/120	350/270	NA	NA			
MW-1	04/04/97	61.84	9.14	52.70	1,400	3,500	13	27	190	410	NA	<30 [5]			
MW-1	09/23/97	61.84	9.15	52.69	260	2,100	13	11	200	220	NA	<5			
MW-1	03/30/98	61.84	8.73	53.11	-----Well inaccessible for sampling-----										
MW-1	09/02/98	61.84	9.20	52.64	280	1,400	7	7	90	120	NA	<12			
MW-2	05/26/94	63.10	9.30	53.80	<50/<50	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0	NA			
MW-2	07/29/94	63.10	9.70	53.40	NA	NA	NA	NA	NA	NA	NA	NA			
MW-2	08/26/94	63.10	9.89	53.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	10/04/94	63.10	9.86	53.24	NA	NA	NA	NA	NA	NA	NA	NA			
MW-2	10/27/94	63.10	9.96	53.14	NA	NA	NA	NA	NA	NA	NA	NA			
MW-2	11/30/94	63.10	8.95	54.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	01/03/95	63.10	8.15	54.95	NA	NA	NA	NA	NA	NA	NA	NA			
MW-2	01/31/95	63.10	6.96*	56.14	NA	NA	NA	NA	NA	NA	NA	NA			
MW-2	03/16/95	63.10	6.37*	56.73	<50/<50	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0	NA			
MW-2	06/12/95	63.10	9.07	54.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	08/30/95	63.10	9.53	53.57	52 [3]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	11/29/95	63.10	9.74	53.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	03/06/96	63.10	7.23	55.87	68 [4]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA			
MW-2	07/08/96	63.10	8.84	54.26	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA			
MW-2	04/04/97	63.10	8.70	54.40	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3			

Table 1

**Groundwater Monitoring Data
Interstate Brands Corporation
1010 46th Street
Oakland, California**

Well	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL*)	TPH		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total Oil & Grease (mg/L)	MTBE (µg/L)
					Diesel (µg/L)	Gasoline (µg/L)						
MW-2	09/23/97	63.10	9.18	53.92	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-2	03/30/98	63.10	7.14	55.96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-2	09/02/98	63.10	9.37	53.73	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3
MW-3	05/26/94	62.51	12.88	49.63	99	<50	<0.5	<0.5	<0.5	1.7	<5.0	NA
MW-3	07/29/94	62.51	13.61	48.90	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	08/26/94	62.51	13.71	48.80	66 [2]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	10/04/94	62.51	13.74	48.77	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	10/27/94	62.51	13.77	48.74	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	11/30/94	62.51	11.85	50.66	78/85	100/100	<0.5/1.9	<0.5/<0.5	<0.5/1.0	2.1/4.3	<5.0	NA
MW-3	01/03/95	62.51	12.09	50.42	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	01/31/95	62.51	10.64	51.87	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/16/95	62.51	10.79	51.72	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	06/12/95	62.51	12.05	50.46	120 [2]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	08/30/95	62.51	13.54	48.97	88/57 [3]	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0/<5.0	NA
MW-3	11/29/95	62.51	13.72	48.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	03/06/96	62.51	10.78	51.73	140 [3]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	07/08/96	62.51	13.39	49.12	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	04/04/97	62.51	13.23	49.28	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3
MW-3	09/23/97	62.51	13.35	49.16	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-3	03/30/98	62.51	12.16	50.35	75	<50	<0.5	<0.5	<0.5	0.64	NA	<5
MW-3	09/02/98	62.51	13.19	49.32	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3

**FIELD ACTIVITY REPORT FOR
INTERNATIONAL BRANDS COMPANY
OAKLAND, CALIFORNIA**

**GROUNDWATER SAMPLE COLLECTION
MARCH 1999**

Prepared for: URS Greiner Woodward Clyde
500-12th Street, Suite 200
Oakland, California 94607
Date Prepared: March 29, 1999

By: *Environmental Sampling Services*
6680 Alhambra Avenue, #102
Martinez, California 94553



**Environmental
Sampling Services**

**FIELD ACTIVITY REPORT
GROUNDWATER SAMPLE COLLECTION
INTERSTATE BRANDS COMPANY,
OAKLAND, CALIFORNIA**

ESS Personnel: Jacki Lee, Stephen Penman
Duration of Activities: March 23, 1999

Decontamination Procedures

All downhole equipment was cleaned with a solution of Liqui-Nox® laboratory-grade detergent and potable water, rinsed with potable water, followed by a final rinse with distilled water.

Water Level and Well Depth Measurements

Three (3) monitoring wells were measured for static water level and well depth. Water level measurements were performed with an Oil/Water Interface meter. Well depth measurements were performed with the weighted end of a Solinst® electrical water level indicator meter (see Water Log Sheets, Table 1). The water level measurement was referenced to a surveyor's mark (a black mark on the top of well casing).

Field Activities

Performed well evacuation using new lengths of disposable suction hose and Honda Centrifugal pump. In addition to standard water quality parameter measurements (pH, specific conductance, and temperature, dissolved oxygen measurements were recorded.

All wells were sampled with either a new disposable PVC bailers or new disposable Teflon bailers.

Chromolab in Pleasanton, California supplied all sample containers and performed analyses. All samples were properly preserved according to analysis.

All wells were sampled for TPH-Gas/BTEX, MTBE, and Diesel. Sulfate samples were collected from monitoring wells, MW-1 and MW-3.

Three keyed-alike Master locks were installed. Key code is 2174.

Two labeled 55-gallon drums were used to store purged groundwater and decontamination water.



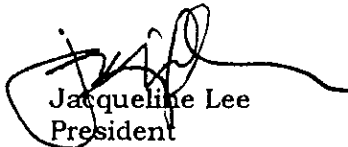
**Environmental
Sampling Services**

QA/QC

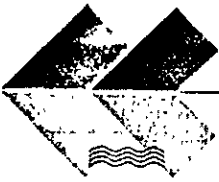
Trip blanks for EPA Method TPH-Gas/BTEX and MTBE remained in the cooler containing all samples.

Fictitious equipment blank and duplicate samples were not collected.

All work was performed under satisfactory workmanship and according to URSGWC'S Letter of Authorization, dated March 17, 1999.


Jacqueline Lee
President

Enclosure
Water Sample Log Sheets
Table 1
Chain of Custody



Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET

WELL IDENTIFICATION: MW-1 DATE: 3/23/99

Project Name: Interstate Brands Co. Oakland, CA Client Project Number: 41-070990010.00 Task: 00010

Well Description: 2" 3" 4" 5" 6" Other _____ Well Type: PVC Stainless Steel Other: _____

Is Well Secured? Yes No Bolt Size 9/16" Type of lock / Lock number: Master # 2174

Observations / Comments: _____

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump GrundFos Redi-flow Pump Other: _____

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: Well Water Rinse

Sampling Method: Disp. Teflon Bailer Disp. PVC Bailer GrundFos Redi-flow Pump Other: _____

pH Meter Serial No.: 217254 / 330089 Spec. Cond. Meter Serial No.: 96H0203AB / AE

Date/Time Calibrated: 3/23@12:50 4:07 @ 25°C Spec. Cond. Meter Calibration: Self Test Other: _____

Method to Measure Water Level: Solinst Serial No.: ESS101144 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 8.63 Water Level Prior To Sampling: 8.67

TD = 19.47 - 8.63 (DTW) = 10.84 (ft. of water) x "K" = 4.07 (Gals./CV) x 3 (No. of CV) = 21.2 (Gals.)

"K" = 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "K" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS <u>(uS)</u>	Turbidity (NTU's)	Color DO	Comments
3/23/99	14:08	5	7.08	17.1	218	mod.	<u>Cloudy gray</u> / 1.7	No Floating Product
	14:13	10	6.85	16.8	335.1	"	" / 2.2	
	14:13	15	6.83	16.7	380.3	"	" / 1.9	
	14:17	20	6.76	16.9	425.4	NONE	<u>clear</u> / 2.4	slight Pet. Odor
	14:21	25	6.80	16.6	442.4	MOD	<u>cloudy gray</u> / 2.6	
<u>3/23/99</u>	15:44	After Sampling	7.03	15.9	376.7	MOD	<u>Lt gray</u> / 2.1	

Total Discharge: _____ gallons Casing Volumes Removed: _____

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____

Date/Time Sampled: 3/23/99 @ 15:37 Analysis/No. of Bottles: TPH, BTEX (8015M, 9020) & MTBE, TPH

Diesel, Sulfate; 4-40mL voc's w/HCl; 2-1L amber N/P; 1-250mL Poly N/P

QA/QC: NONE @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Stephen Penman and Jacki Lee Initials: SP JL

Environmental Sampling Services

8680 Alhambra Ave., #102, Martinez, CA 94553 Phone/Fax: (925) 372.8108
www.Envsampling.com



**Environmental
Sampling Services**

WATER QUALITY SAMPLE LOG SHEET

WELL IDENTIFICATION: MW-2 DATE: 3/23/99

Project Name: Interstate Brands Co. Oakland, CA Client Project Number: 41-070990010.00 Task: 00010
 Well Description: 2" 3" (4") 5" 6" Other _____ Well Type: (PVC) Stainless Steel Other: _____
 Is Well Secured? (Yes) / No Bolt Size 9/16" Type of lock / Lock number: Master # 2174
 Observations / Comments: Installed New Lock

Purge Method: Teflon/PVC Disposable Bailer (Centrifugal Pump) GrundFos Redi-flow Pump Other: _____
 Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
 Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: Well water Rinse

Sampling Method: Disp. Teflon Bailer (Disp. PVC Bailer) GrundFos Redi-flow Pump Other: _____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) AE
 Date/Time Calibrated: 3/23/99 12:50 (47) (10) @ 25°C Spec. Cond. Meter Calibration: (Self Test) Other: _____

Method to Measure Water Level: Solinst Serial No.: ESS1 / oilw P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 8.12 Water Level Prior To Sampling: 8.88

TD = 10.58 - 8.12 (DTW) = 10.46 (ft. of water) x "K" = 6.8 (Gals./CV) x 3 (No. of CV) = 20.4 (Gals.)
 "K" = 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS <u>(uS)</u>	Turbidity (NTU's)	Color / D.O.	Comments
3/23/99	13:10	4	6.64	18.5	511	Low	<u>Cloudy</u> <u>1.4 mg/L</u>	No Floating Prod.
	13:13	8	6.60	18.3	499.5	"	<u>Slightly Cloudy</u> <u>0.8 mg/L</u>	
	13:15	12	6.59	18.6	502	"	<u>Slightly Cloudy</u> <u>1.2 mg/L</u>	
	13:16	16	6.65	18.5	519	Med.	<u>Cloudy</u> <u>1.9 mg/L</u>	
	13:17	20	6.64	18.8	506	"	<u>Cloudy</u> <u>1.3 mg/L</u>	
	13:21	24	6.70	18.9	513	High	<u>Brown</u> <u>3.7 mg/L</u>	
3/23/99	15:11	After Sampling	6.85	17.9	509	NONE	<u>clear</u> <u>4.2 mg/L</u>	

Total Discharge: 26 gallons Casing Volumes Removed: 38

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 3/23/99 @ 15:05 Analysis/No. of Bottles: TPH_g/BTEX, MTBE, TPH Diesel
4-40mL Voc w/HCl, 2-1L amber N/P.

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Stephen Penman and Jacki Lee Initials: SP JL



**Environmental
Sampling Services**

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-3 DATE: 3/23/99							
Project Name: <u>Interstate Brands Co. Oakland, CA</u>	Client Project Number: <u>41-070990010.00</u> Task: <u>00010</u>							
Well Description: 2" 3" <u>4"</u> 5" 6" Other _____	Well Type: <u>PVC</u> Stainless Steel Other: _____							
Is Well Secured? <u>(Yes)</u> / No Bolt Size _____	Type of lock / Lock number: <u>Masta # 2174</u>							
Observations / Comments: <u>Installed new lock</u>								
Purge Method: Teflon/PVC Disposable Bailer <u>(Centrifugal Pump)</u> GrundFos Redi-flow Pump Other: _____								
Pump Lines: NA <u>(New)</u> / Cleaned / Dedicated Bailer Line: NA <u>(New)</u> / Cleaned / Dedicated								
Method of Cleaning Pump: <u>(NA)</u> Alconox Liqui-nox Tap Water DI Rinse Other: _____								
Method of Cleaning Bailer: <u>(NA)</u> Alconox Liqui-nox Tap Water DI Rinse Other: <u>Well water rinse</u>								
Sampling Method: Disp. Teflon Bailer <u>(Disp. PVC Bailer)</u> GrundFos Redi-flow Pump Other: _____								
pH Meter Serial No.: <u>217254 / 330089</u> Spec. Cond. Meter Serial No.: <u>(96H0203AB)</u> AE								
Date/Time Calibrated: <u>3/23/99 11:50</u> 4 7 10 @ 25°C Spec. Cond. Meter Calibration: <u>(Self Test)</u> Other: _____								
Method to Measure Water Level: Solinst Serial No.: <u>ESS1/0416P</u> I.D. Reading: <u>NA</u> ppm @ Well Head								
Water Level at Start (DTW): <u>11.23</u> Water Level Prior To Sampling: <u>11.34</u>								
TD = <u>20.25</u> - <u>11.23</u> (DTW) = <u>9.0</u> (ft. of water) x "K" = <u>5.87</u> (Gals./CV) x <u>3</u> (No. of CV) = <u>17.6</u> (Gals.)								
"K" = 0.163(2" well) <u>(K" = 0.653(4" well))</u> "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)								
FIELD WATER QUALITY PARAMETERS								
Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance mS uS	Turbidity (NTU's)	Color / D.O.	Comments
3/23/99	1330	3	7.03	17.0	1268	HIGH	<u>DK</u> / 2.6	No Floating Product
	1331	6.0	7.07	17.0	1266	LOW	<u>Lt</u> / 1.2	
	1332	9.0	7.03	16.9	1262	NONE	<u>clear</u> / 1.2	
	1333	12.0	7.00	17.2	1222	Slight	<u>Htan</u> / 1.2	
	1335	15.0	7.05	17.5	1204	HIGH	<u>olivegrn</u> / 1.0	
	1338	18.0	7.07	17.5	1197	LOW	<u>Lt</u> / 1.3	
	1340	21.0	7.03	17.8	1176	NONE	<u>clear</u> / 1.2	
	1343	24.0	7.04	18.0	1173	NONE	<u>"</u> / 1.1	
	1527	After Sampling	7.08	16.7	1163	Slight	<u>Lt</u> / 2.1	
Total Discharge: <u>26</u> gallons		Casing Volumes Removed: <u>4.42</u>						
Method of disposal of discharged water: <u>(55 Gallon Drum(s))</u> Poly Tank Treatment System Other: _____								
Date/Time Sampled: <u>3/23/99 @ 1523</u> Analysis/No. of Bottles: <u>TPH_{gas}/BTEX, MTBE (BOLISM, 802) TPH</u>								
<u>Diesel 4-40ml VOC's 4HCl; 2-1L amber 4P</u>								
QA/QC: <u>NONE</u> @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank								
Comments: _____								
Sampled By: <u>Stephen Penman and Jacki Lee</u> Initials: <u>SP JP</u>								



**Environmental
Sampling Services**

Table 1: Summary of Groundwater Sample Collection at IBC-Oakland

Well I.D.	Date	Water Level	Well Depth	Floating Product*
MW-1	3/23/99	8.63	19.47	none
MW-2	3/23/99	8.12	18.58	none
MW-3	3/23/99	11.23	20.23	none

* Measured with Oil/Water Interface Meter

CHROMALAB, INC.

Environmental Services (SDB)

March 17, 1999

Submission #: 9903159

URS GREINER W&C OAKLAND

Atten: April Giangerelli

Project: Not provided
 Received: ~~March 10, 1999~~

Project#: 41070099010.00

re: 4 samples for TPH - Diesel analysis.
 Method: EPA 8015M

Sampled: March 9, 1999

Matrix: SOIL
 Run#: 17825

Extracted: March 15, 1999
 Analyzed: March 15, 1999

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
232052	IBC-S-3-9-A	N.D.	1.0	N.D.	84.2	1
232053	IBC-S-3-9-B	N.D.	1.0	N.D.	84.2	1

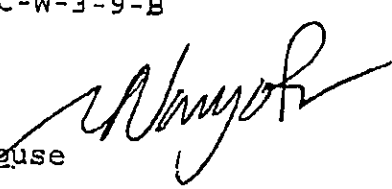
Sampled: March 9, 1999

Matrix: WATER
 Run#: 17826

Extracted: March 15, 1999
 Analyzed: March 15, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
232054	IBC-W-3-9-A	N.D.	50	N.D.	87.2	1
232055	IBC-W-3-9-B	N.D.	50	N.D.	87.2	1

Carolyn House
 Analyst



Bruce Havlik
 Analyst

CHROMALAB, INC.

Environmental Services (SDB)

March 17, 1999

Submission #: 9903159

URS GREINER W&C OAKLAND

Atten: April Giangerelli

Project: Not provided
Received: March 10, 1999

Project#: 41070099010.00

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: IBC-S-3-9-A

Spl#: 232052

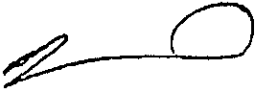
Matrix: SOIL

Sampled: March 9, 1999

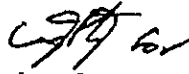
Run#: 17853

Analyzed: March 16, 1999

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	108	1
MTBE	N.D.	0.0050	N.D.	95	1
BENZENE	N.D.	0.0050	N.D.	96	1
TOLUENE	N.D.	0.0050	N.D.	94	1
ETHYL BENZENE	N.D.	0.0050	N.D.	96	1
XYLENES	N.D.	0.0050	N.D.	93	1



Vincent Vancil
Analyst



Michael Verona
Operations Manager

**AS

CHROMALAB, INC.

Environmental Services (SDB)

March 17, 1999

Submission #: 9903159

URS GREINER W&C OAKLAND

Atten: April Giangerelli

Project: Not provided
Received: March 10, 1999

Project#: 41070099010.00

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: IBC-S-3-9-B

Spl#: 232053


Matrix: SOIL

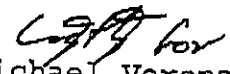
Sampled: March 9, 1999

Run#:17853

Analyzed: March 16, 1999

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	108	1
MTBE	N.D.	0.0050	N.D.	95	1
BENZENE	N.D.	0.0050	N.D.	96	1
TOLUENE	N.D.	0.0050	N.D.	94	1
ETHYL BENZENE	N.D.	0.0050	N.D.	96	1
XYLENES	N.D.	0.0050	N.D.	93	1


Vincent Vancil
Analyst


Michael Verona
Operations Manager

**AS

CHROMALAB, INC.

Environmental Services (SDB)

March 17, 1999

Submission #: 9903159

URS GREINER W&C OAKLAND

Atten: April Giangerelli

Project: Not provided
Received: March 10, 1999

Project#: 41070099010.00

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: IBC-W-3-9-A

Spl#: 232054

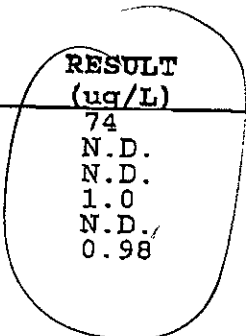
Matrix: WATER

Sampled: March 9, 1999

Run#: 17868

Analyzed: March 16, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	74	50	N.D.	106	1
MTBE	N.D.	5.0	N.D.	107	1
BENZENE	N.D.	0.50	N.D.	101	1
TOLUENE	1.0	0.50	N.D.	99	1
ETHYL BENZENE	N.D.	0.50	N.D.	102	1
XYLENES	0.98	0.50	N.D.	103	1



Vincent Vancil
Analyst

Michael Verona
Operations Manager

**AS

CHROMALAB, INC.

Environmental Services (SDB)

March 17, 1999

Submission #: 9903159

URS GREINER W&C OAKLAND

Atten: April Giangerelli

Project: Not provided
 Received: March 10, 1999

Project#: 41070099010.00

re: One sample for Gasoline BTEX MTBE analysis.
 Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: IBC-W-3-9-B

Spl#: 232055


Matrix: WATER


Sampled: March 9, 1999

Run#:17868

Analyzed: March 16, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	106	1
MTBE	N.D.	5.0	N.D.	107	1
BENZENE	N.D.	0.50	N.D.	101	1
TOLUENE	N.D.	0.50	N.D.	99	1
ETHYL BENZENE	N.D.	0.50	N.D.	102	1
XYLENES	N.D.	0.50	N.D.	103	1


 Vincent Vancil
 Analyst


 Michael Verona
 Operations Manager

*AS

CHROMALAB, INC.

Environmental Services (SDB)

April 1, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND
500 12th St., Suite 200
Oakland, CA 94607-4014

Attn: AL RIDLEY

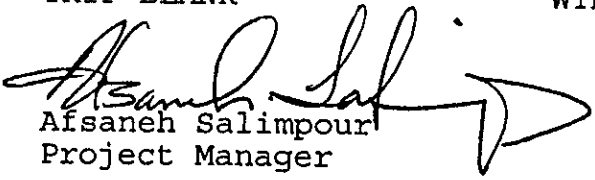
RE: Analysis for project IBC-OAKLAND, number 41-0799010.00 TASK 00010.

REPORTING INFORMATION

Samples were received cold and in good condition on March 24, 1999. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date collected</u>	<u>Sample #</u>
MW-1	WTR	March 23, 1999	233853
MW-2	WTR	March 23, 1999	233851
MW-3	WTR	March 23, 1999	233852
TRIP BLANK	WTR	March 23, 1999	233850


Afsaneh Salimpour
Project Manager

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: TRIP BLANK

Spl#: 233850


Matrix: WATER


Sampled: March 23, 1999

Run#:18075

Analyzed: March 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	112	1
BENZENE	N.D.	0.50	N.D.	107	1
TOLUENE	N.D.	0.50	N.D.	106	1
ETHYL BENZENE	N.D.	0.50	N.D.	103	1
XYLENES	N.D.	0.50	N.D.	99	1


Vincent Vancil
Analyst

 for
Michael Verona
Operations Manager

*AS

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999

Project#: 41-0799010.00 TASK 00010

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-2

Spl#: 233851

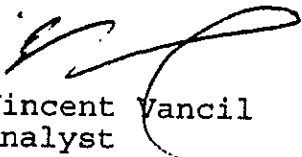
Matrix: WATER

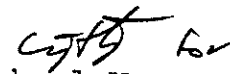
Sampled: March 23, 1999

Run#:18075

Analyzed: March 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	112	1
BENZENE	N.D.	0.50	N.D.	107	1
TOLUENE	N.D.	0.50	N.D.	106	1
ETHYL BENZENE	N.D.	0.50	N.D.	103	1
XYLENES	N.D.	0.50	N.D.	99	1


Vincent Vancil
Analyst


Michael Verona
Operations Manager

*AS

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999

Project#: 41-0799010.00 TASK 00010

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-3

Spl#: 233852

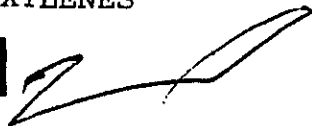
Matrix: WATER


Sampled: March 23, 1999

Run#:18075

Analyzed: March 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	98	1
MTBE	N.D.	5.0	N.D.	112	1
BENZENE	N.D.	0.50	N.D.	107	1
TOLUENE	N.D.	0.50	N.D.	106	1
ETHYL BENZENE	N.D.	0.50	N.D.	103	1
XYLENES	N.D.	0.50	N.D.	99	1


Vincent Vancil
Analyst


Michael Verona
Operations Manager

*AS

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-1

Spl#: 233853


Matrix: WATER


Sampled: March 23, 1999

Run#:18080

Analyzed: March 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	9800	2500	N.D.	101	50
MTBE	N.D.	250	N.D.	106	50
BENZENE	58	25	N.D.	98	50
TOLUENE	130	25	N.D.	97	50
ETHYL BENZENE	810	25	N.D.	97	50
XYLENES	2900	25	N.D.	92	50


Vincent Vancil
Analyst


Michael Verona
Operations Manager

*AS

LEV2

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 18075

Analyzed: March 29, 1999

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control Limits	% RPD	% RPD Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
GASOLINE	500	500	492	493	98.4	98.6	75-125	0.20	20
MTBE	100	100	112	114	112	114	75-125	1.77	20
BENZENE	100	100	107	110	107	110	77-123	2.76	20
TOLUENE	100	100	106	110	106	110	78-122	3.70	20
ETHYL BENZENE	100	100	103	107	103	107	70-130	3.81	20
XYLENES	300	300	298	315	99.3	105	75-125	5.58	20

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999

Project#: 41-0799010.00 TASK 00010

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 18075 Instrument: 3400-3

Analyzed: March 29, 1999

Analyte	Spiked		Amt Found		Spike Recov		Control Limits	% RPD	% RPD Lim	
	Sample Amount (ug/L)	Spike Amt MS MSD (ug/L)	MS MSD (ug/L)	MS MSD (%) (%)						
GASOLINE	N.D.	500	500	493	541	85.0	94.6	65-135	10.7	20
MTBE	N.D.	100	100	114	109	114	109	65-135	4.48	20
BENZENE	N.D.	100	100	104	103	104	103	65-135	0.96	20
TOLUENE	N.D.	100	100	102	103	102	103	65-135	0.97	20
ETHYL BENZENE	N.D.	100	100	100	97.3	100	97.3	65-135	2.74	20
XYLENES	N.D.	300	300	290	294	96.7	98.0	65-135	1.34	20

Sample Spiked: 233782
Submission #: 9903333
Client Sample ID: EB-2-26W

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999

Project#: 41-0799010.00 TASK 00010

re: **Surrogate** report for 4 samples for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 18075
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
233850-1	TRIP BLANK	TRIFLUOROTOLUENE	99.1	58-124
233850-1	TRIP BLANK	4-BROMOFLUOROBENZENE	103	50-150
233851-1	MW-2	TRIFLUOROTOLUENE	88.9	58-124
233851-1	MW-2	4-BROMOFLUOROBENZENE	105	50-150
233852-1	MW-3	TRIFLUOROTOLUENE	94.8	58-124
233852-1	MW-3	4-BROMOFLUOROBENZENE	105	50-150
233853-1	MW-1	TRIFLUOROTOLUENE	165	58-124
233853-1	MW-1	4-BROMOFLUOROBENZENE	109	50-150

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
234555-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	99.4	58-124
234555-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	105	50-150
234556-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	96.9	58-124
234556-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	115	50-150
234557-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	95.0	58-124
234557-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	118	50-150
234558-1	Matrix spike (MS)	TRIFLUOROTOLUENE	95.2	58-124
234558-1	Matrix spike (MS)	4-BROMOFLUOROBENZENE	114	50-150
234559-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	90.6	58-124
234559-1	Matrix spike duplicate (MSD)	4-BROMOFLUOROBENZENE	112	50-150

V132 LEV2
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CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 18080

Analyzed: March 30, 1999

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control % Limits RPD	% RPD Lim	
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
GASOLINE	500	500	504	530	101	106	75-125	4.83	20
MTBE	100	100	106	102	106	102	75-125	3.85	20
BENZENE	100	100	98.2	96.7	98.2	96.7	77-123	1.54	20
TOLUENE	100	100	97.4	96.8	97.4	96.8	78-122	0.61	20
ETHYL BENZENE	100	100	96.7	92.8	96.7	92.8	70-130	4.12	20
KYLENES	300	300	277	278	92.3	92.7	75-125	0.43	20

BS Smpl #: 234579

BSD Smpl #: 234580

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

LEV2

DC_BSD1226 CRAG 12/16/26

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 18080 Instrument: 3400-3

Analyzed: March 30, 1999

Analyte	Spiked Sample Amount		Spike Amt		Amt Found		Spike Recov		Control Limits	% RPD	Lim
	(ug/L)	MS	MSD	MS	MSD	(%)	(%)				
GASOLINE	N.D.	500	500	487	458	97.4	91.6	65-135	6.14	20	
MTBE	N.D.	100	100	110	113	110	113	65-135	2.69	20	
BENZENE	N.D.	100	100	101	104	101	104	65-135	2.93	20	
TOLUENE	2.7	100	100	98.4	101	98.4	101	65-135	2.61	20	
ETHYL BENZENE	N.D.	100	100	96.2	100	96.2	100	65-135	3.87	20	
XYLENES	1.2	300	300	268	279	89.3	93.0	65-135	4.06	20	

Sample Spiked: 233946

Submission #: 9903355

Client Sample ID: MW-5

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: **Surrogate** report for 1 sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Lab Run#: 18080

Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
233853-2	MW-1	TRIFLUOROTOLUENE	103	58-124
233853-2	MW-1	4-BROMOFLUOROBENZENE	119	50-150

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
234578-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	101	58-124
234578-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	112	50-150
234579-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	93.5	58-124
234579-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	118	50-150
234580-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	88.6	58-124
234580-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	124	50-150
234703-1	Matrix spike (MS)	TRIFLUOROTOLUENE	92.2	58-124
234703-1	Matrix spike (MS)	4-BROMOFLUOROBENZENE	107	50-150
234704-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	86.8	58-124
234704-1	Matrix spike duplicate (MSD)	4-BROMOFLUOROBENZENE	114	50-150

V132 LEV2
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CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999


Project#: 41-0799010.00 TASK 00010

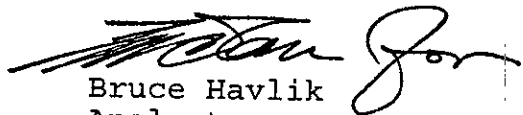
re: 3 samples for TPH - Diesel analysis.
Method: EPA 8015M

Sampled: March 23, 1999 Matrix: WATER Extracted: March 26, 1999
Run#: 18044 Analyzed: March 26, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
233851	MW-2	N.D.	50	N.D.	77.6	1
233852	MW-3	N.D.	50	N.D.	77.6	1
233853	MW-1	2600	50	N.D.	77.6	1

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND
Received: March 24, 1999

Project#: 41-0799010.00 TASK 00010

re: **Blank spike and duplicate** report for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: WATER
Lab Run#: 18044

Analyzed: March 27, 1999

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control % Limits RPD	% RPD Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)		
DIESEL	2500	2500	1940	1980	77.6	79.2	60-130 2.04	25

BS Smpl #: 234256

BSD Smpl #: 234257

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(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

OC_BSD1226 REV E 12-53-07

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1999

Submission #: 9903348

URS GREINER W&C OAKLAND

Atten: AL RIDLEY

Project: IBC-OAKLAND

Project#: 41-0799010.00 TASK 00010

Received: March 24, 1999

re: **Surrogate** report for 3 samples for TPH - Diesel analysis.

Method: EPA 8015M

Lab Run#: 18044

Matrix: WATER

<u>Sample#</u>	<u>Client Sample ID</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
233851-1	MW-2	O-TERPHENYL	87.3	60-130
233852-1	MW-3	O-TERPHENYL	85.9	60-130
233853-1	MW-1	O-TERPHENYL	103	60-130

<u>Sample#</u>	<u>QC Sample Type</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
234255-1	Reagent blank (MDB)	O-TERPHENYL	72.2	60-130
234256-1	Spiked blank (BSP)	O-TERPHENYL	112	60-130
234257-1	Spiked blank duplicate (BSD)	O-TERPHENYL	109	60-130

S005
QCSURR1229 RENE 31-Mar-99 12 53

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE March 23, 1999 PAGE 1 OF 1

PROJECT INFORMATION					SAMPLE RECEIPT					ANALYSIS REPORT																	
PROJECT NAME <u>IBC-Oakland</u>					TOTAL NO. OF CONTAINERS <u>22</u>					RELINQUISHED BY <u>[Signature]</u> 11:15 (SIGNATURE) (TIME)																	
PROJECT NUMBER <u>41-07099 0 10.00 TASK 00010</u>					HEAD SPACE					RELINQUISHED BY <u>Stephen Dannon</u> 3/24/99 (PRINTED NAME) (DATE)																	
P.O. #					TEMPERATURE					RELINQUISHED BY <u>Environmental Sampling SVCS</u> (COMPANY)																	
TAT					CONFORMS TO RECORD					RECEIVED BY <u>[Signature]</u> 11:15 (SIGNATURE) (TIME)																	
STANDARD 5 DAY					24 48 72 OTHER					RECEIVED BY <u>B. Morgan</u> 3-24-99 (PRINTED NAME) (DATE)																	
SPECIAL INSTRUCTIONS/COMMENTS: Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report										RECEIVED BY (LABORATORY) <u>[Signature]</u> 1831 (SIGNATURE) (TIME)																	
										RECEIVED BY <u>[Signature]</u> 3-24-99 (PRINTED NAME) (DATE)																	
										RECEIVED BY <u>[Signature]</u> (SIGNATURE)																	
PROJ MGR	<u>MR. AL RIDLEY</u>				TPH-EPA 8015, 8020	<input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	PURGEABLE AROMATICS	BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPE (EPA 8015M)	<input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	PURGEABLE HALOCARBONS, (BYVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5520 B+F, E+F)	<input type="checkbox"/> PESTICIDES (EPA 8080)	<input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	C.W.E.T. (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr hold time for H2O)	SULFATE	NUMBER OF CONTAINERS	
COMPANY	<u>URS Greiner WOODWARD CLYDE</u>																										
ADDRESS	<u>500-12th St. Ste 200 Oakland, CA 94607</u>																										
SAMPLERS (SIGNATURE)	<u>ENV. SAMPLING SVCS. (PHONE NO.) JACKI LEE (925) 372-8108 STEPHEN PENMAN (FAX NO.) (925) 372-6705</u>																										
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.																							
<u>TRIP BLANK</u>	<u>3/23/99</u>	<u>11:00</u>	<u>WTR</u>	<u>HCl</u>	<u>X</u>																						<u>2</u>
<u>MW-2</u>	<u>3/23/99</u>	<u>15:05</u>	<u>WTR</u>	<u>HCl</u>	<u>X</u>			<u>X</u>																			<u>6</u>
<u>MW-3</u>	<u>3/23/99</u>	<u>15:23</u>	<u>WTR</u>	<u>HCl</u>	<u>X</u>			<u>X</u>																<u>X</u>		<u>7</u>	
<u>MW-1</u>	<u>3/23/99</u>	<u>15:27</u>	<u>WTR</u>	<u>HCl</u>	<u>X</u>			<u>X</u>															<u>X</u>		<u>7</u>		

SUB# #: 9903348 REP: ASLEVE
CLIENT: W&C-D&K
DUE: 03/31/99
REF #: 45163

S-S cap
10 Pumps
2 July
12 Vials
2 TB

San Francisco Regional Office

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(925) 426-2600
Fax (925) 426-0106

Clayton
LABORATORY
SERVICES

March 31, 1999

Mr. Ken Wright
CHROMALAB, INC.
1220 Quarry Lane
Pleasanton, CA 94566

Client Ref.: 9903348
Clayton Project No.: 99032.68

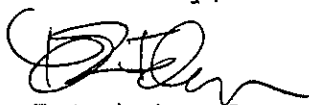
Dear Mr. Wright:

Attached is our analytical laboratory report for the samples received on March 25, 1999. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after April 30, 1999, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Client Services at (925) 426-2657.

Sincerely,



Patricia Flynn
Client Services Representative
San Francisco Regional Office

PVF/pvf

Attachments

California DHS ELAP Certification Number 1196

Analytical Results
for
CHROMALAB, INC.
Client Reference: 9903348
Clayton Project No. 99032.68

Sample Identification: See Below
Lab Number: 9903268
Sample Matrix/Media: WATER
Method Reference: EPA 300.0

Date Received: 03/25/99
Date Analyzed: 03/26/99

Lab Number	Sample Identification	Date Sampled	Sulfate (mg/L)	Method Detection Limit (mg/L)
-01	MW-3	03/23/99	23	0.1
-02	MW-1	03/23/99	11	0.1
-03	METHOD BLANK	--	<0.1	0.1

ND: Not detected at or above limit of detection
- Information not available or not applicable

CHROMALAB, INC.

1220 Quary Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

Environmental Services (SDD) (DOLIS 1094)

DATE 3/25/99 PAGE 1 OF 1

PROJECT: Ken Wright
 COMPANY: _____
 ADDRESS: _____
 SAMPLES (SIGATURE): _____ (PHONE NO.) _____
 (FAX NO.) _____

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	SULFATE														Chromalab Reference or Submission Number(s)	NUMBER OF CONTAINERS	
MW 3					X														-01	9903348	1
MW 1					X														-02		1

PROJECT INFORMATION		SAMPLE RECEIPT			
PROJECT NAME <u>9903348</u>	TOTAL NO OF CONTAINERS <u>2</u>	HEAD SPACE	CONFORMS TO RECORD		
PROJECT NUMBER	REC'D GOOD CONDITION/COLD				
P.O.#					
1AT	STANDARD 5 DAY	24	48	72	OTHER
SPECIAL INSTRUCTIONS/COMMENTS <u>temp? 7.3°C</u>					

RELINQUISHED BY <u>CRISTINA</u> CN	RECEIVED BY <u>William Harker</u> D. Harker 12/30 Clayton 3/25/99
(SIGNATURE)	(SIGNATURE)
(DATE)	(DATE)
(PRINTED NAME)	(PRINTED NAME)
(DATE)	(DATE)
(COMPANY)	(COMPANY)