RO-2431

URS

October 29, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Third Quarter 2004 Groundwater Monitoring Report
Former BP Service Station # 11120
6400 Dublin Road
Dublin, California
URS Project #38486798

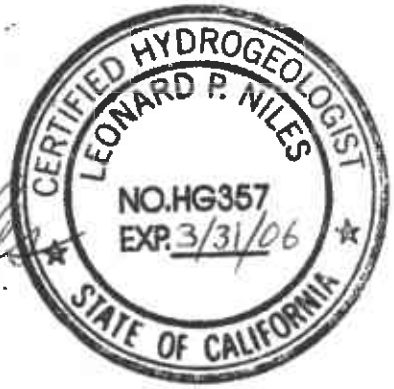
Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2004 Groundwater Monitoring Report* for the Former BP Service Station #11120, located at 6400 Dublin Road, Dublin, California.

If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION



Leonard P. Niles, R.G./C.H.G.
Project Manager

Enclosure: Third Quarter 2004 Groundwater Monitoring Report

cc: Mr. Kyle Christie, Atlantic Richfield Company (RM), copy uploaded to ENFOS
Ms. Liz Sewell, ConocoPhillips, copy uploaded to URS ftp server

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

Date: October 29, 2004

Quarter: 3Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 11120 Address: 6400 Dublin Road, Dublin, CA

RM Environmental Business Manager: Kyle Christie

Consulting Co./Contact Person: URS Corporation / Leonard Niles

Consultant Project No.: 38486798

Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Third – 2004):

1. Performed third quarter 2004 groundwater monitoring event on September 17, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2004):

1. Prepare and submit this third quarter 2004 groundwater monitoring report.
2. Perform fourth quarter 2004 groundwater monitoring event.
3. Prepare and submit fourth quarter 2004 groundwater monitoring report.

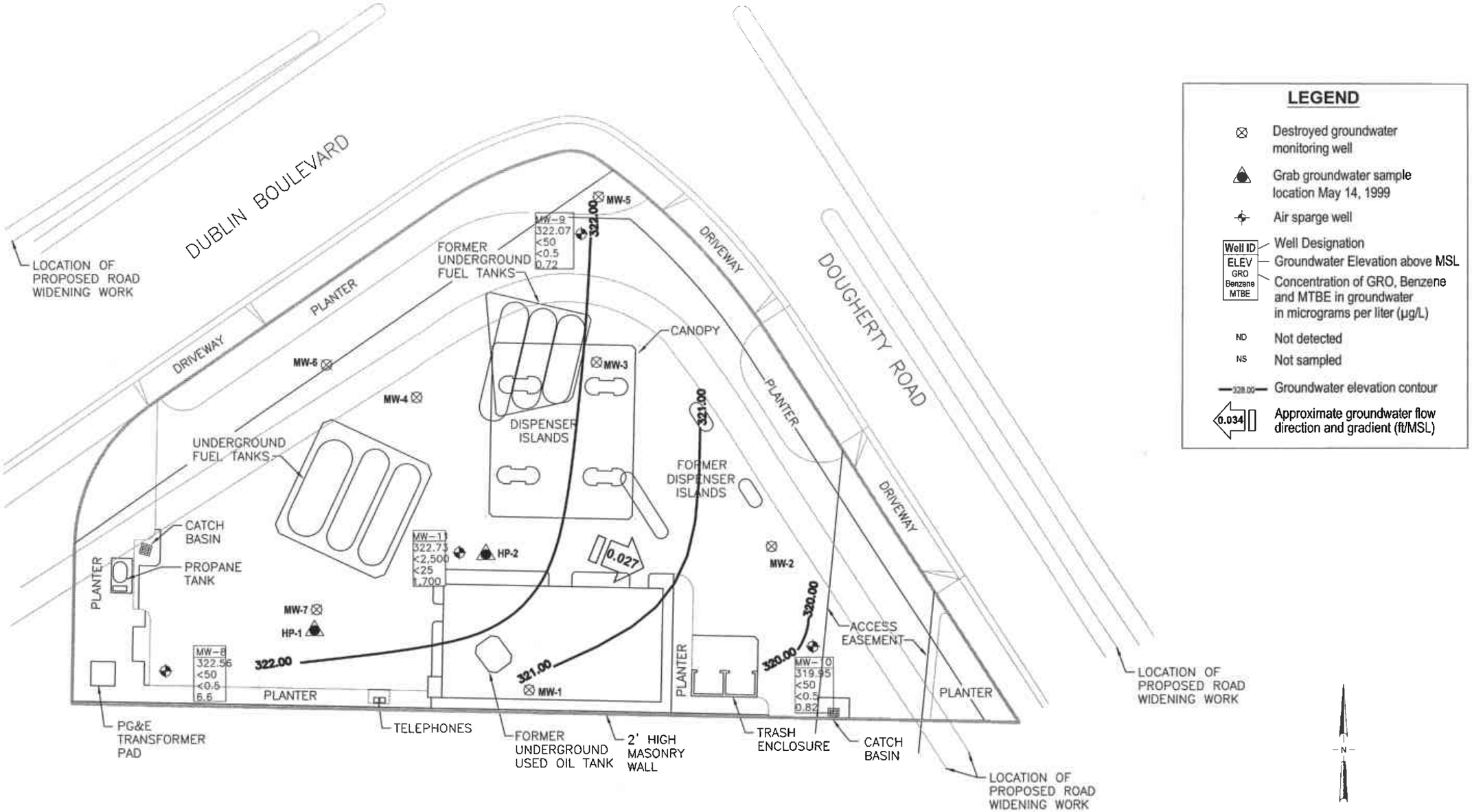
Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Wells MW-8 through MW-11 quarterly
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	6.38 (MW-8) to 7.89 (MW-9) Feet
Groundwater Gradient (direction):	Southeast
Groundwater Gradient (magnitude):	0.027 feet per foot

DISCUSSION:

Methyl tert-butyl ether (MTBE) was detected at or above the laboratory reporting limit in all four wells at concentrations ranging from 0.72 µg/L (MW-9) to 1700 µg/L (MW-11). Gasoline range organics (GRO), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), and other fuel additives were not detected at or above the laboratory reporting limit in any of the four wells sampled this quarter. Split samples were collected for ethanol analysis by EPA Method 8260B SIM. Ethanol was detected in four wells at concentrations ranging from 9.4 µg/L (MW-10) to 16 µg/L (MW-8); however, ethanol was detected in the trip blank at 34 µg/L. Upon confirmatory re-analysis, ethanol was not detected in samples from MW-8 through MW-11, or the trip blank; however, holding time had expired by then. Therefore, the original ethanol results must be considered suspect.

ATTACHMENTS:

- Figure 1– Groundwater Elevation Contour and Analytical Summary Map – September 17, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Attachment A – Concentration and Water Level Trends (MW-11)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment D – Error Check Reports and EDF/Geowell Submittal Confirmations
- Attachment E – Historical Groundwater Analytical Data for Former Wells Abandoned in 1999 (Source Alisto Engineering)



URS	Project No. 38486798 Former BP Station #11120 6400 Dublin Boulevard Dublin, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2004	FIGURE 1

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Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11120
6400 Dublin Blvd., Dublin, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-8	02/25/2002	--	328.94	6.02	--	322.92	<50	<0.5	<0.5	<0.5	<0.5	1.98	--	PACE	--	
	09/30/2002	--	328.94	6.16	--	322.78	<50	<0.5	<0.5	<0.5	<0.5	2.9/4.8	--	SEQM	--	(a)
	12/13/2002	--	328.94	5.81	--	323.13	<50	<0.5	<0.5	<0.5	<0.5	5.9/6.4	--	SEQM	--	(a)
	03/12/2003	--	328.94	5.80	--	323.14	<50	<0.50	<0.50	<0.50	<0.50	4.3/3.8	--	SEQM	--	
	06/28/2003	--	328.94	5.70	--	323.24	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	
	09/30/2003	--	328.94	5.90	--	323.04	<50	<0.50	<0.50	<0.50	<0.50	4.1	--	SEQM	--	
	12/05/2003	P	328.94	5.89	--	323.05	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQM	7.2	
	03/10/2004	P	328.94	4.74	--	324.20	<50	<0.50	<0.50	<0.50	<0.50	5.1	--	SEQM	6.7	
	06/21/2004	P	328.94	6.12	--	322.82	<50	<0.50	<0.50	<0.50	<0.50	7.5	--	SEQM	7.0	
	09/17/2004	**P**	**328.94**	**6.38**	**--**	**322.56**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**6.6**	**--**	**SEQM**	**7.2**	
MW-9	02/25/2002	--	329.96	5.90	--	324.06	<250	<2.50	<2.50	<2.50	<5.00	<2.50	--	PACE	--	
	09/30/2002	--	329.96	6.92	--	323.04	<50	<0.5	<0.5	<0.5	<0.5	1.4/3.3	--	SEQM	--	(a)
	12/13/2002	--	329.96	6.51	--	323.45	<50	<0.5	<0.5	<0.5	<0.5	0.53/<2.5	--	SEQM	--	(a)
	03/12/2003	--	329.96	6.86	--	323.10	<50	<0.50	<0.50	<0.50	<0.50	0.59/<2.5	--	SEQM	--	
	06/28/2003	--	329.96	5.95	--	324.01	<50	<0.50	<0.50	<0.50	<0.50	1.0	--	SEQM	--	
	09/30/2003	--	329.96	6.24	--	323.72	<50	<0.50	<0.50	<0.50	<0.50	16	--	SEQM	--	
	12/05/2003	P	329.96	7.21	--	322.75	<50	<0.50	<0.50	<0.50	<0.50	33	--	SEQM	7.6	
	03/10/2004	P	329.96	5.37	--	324.59	<50	<0.50	<0.50	<0.50	<0.50	2.4	--	SEQM	7.1	
	06/21/2004	P	329.96	6.67	--	323.29	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	SEQM	7.8	
	09/17/2004	**P**	**329.96**	**7.89**	**--**	**322.07**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.72**	**--**	**SEQM**	**7.5**	
MW-10	02/25/2002	--	327.44	4.21	--	323.23	53	2.58	<0.5	2.83	8.46	<0.5	--	PACE	--	
	09/30/2002	--	327.44	4.71	--	322.73	<50	<0.5	<0.5	<0.5	<0.5	0.51/2.8	--	SEQM	--	(a)
	12/13/2002	--	327.44	6.36	--	321.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5/<2.5	--	SEQM	--	(a)
	03/12/2003	--	327.44	7.96	--	319.48	<50	<0.50	<0.50	<0.50	<0.50	0.76/<2.5	--	SEQM	--	
	06/28/2003	--	327.44	7.70	--	319.74	<50	<0.50	<0.50	<0.50	<0.50	0.68	--	SEQM	--	
	09/30/2003	--	327.44	7.57	--	319.87	<50	<0.50	<0.50	<0.50	<0.50	0.71	--	SEQM	--	
	12/05/2003	P	327.44	6.64	--	320.80	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	SEQM	7.1	
	03/10/2004	P	327.44	5.20	--	322.24	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	SEQM	6.4	
	06/21/2004	P	327.44	7.45	--	319.99	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	SEQM	7.0	
	09/17/2004	**P**	**327.44**	**7.49**	**--**	**319.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.82**	**--**	**SEQM**	**7.0**	
MW-11	02/25/2002	--	329.75	6.02	--	323.73	1,800	1.34	<0.5	<0.5	<1.0	2,550	--	PACE	--	
	09/30/2002	--	329.75	7.12	--	322.63	<50	<0.5	<0.5	<0.5	<0.5	1,500/1,400	--	SEQM	--	(a)

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11120
6400 Dublin Blvd., Dublin, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments
MW-11	12/13/2002	--	329.75	6.60	--	323.15	1,300	<10	<10	<10	<10	1,400/2,000	--	SEQM	--	(a)
	03/12/2003	--	329.75	5.79	--	323.96	<500	<5.0	<5.0	<5.0	<5.0	650/2,900	--	SEQM	--	
	06/28/2003	--	329.75	5.68	--	324.07	<5,000	<50	<50	<50	<50	2,500	--	SEQM	--	
	09/30/2003	--	329.75	6.68	--	323.07	5,100	<25	<25	<25	<25	3,200	--	SEQM	--	
	12/05/2003	P	329.75	6.69	--	323.06	<5,000	<50	<50	<50	<50	3,500	--	SEQM	7.2	
	03/10/2004	P	329.75	5.29	--	324.46	3,000	<25	<25	<25	<25	1,800	--	SEQM	6.8	
	06/21/2004	P	329.75	6.65	--	323.10	<5,000	<50	<50	<50	<50	1,900	--	SEQM	7.1	
	09/17/2004	**P**	**329.75**	**7.02**	**--**	**322.73**	**<2,500**	**<25**	**<25**	**<25**	**<25**	**1,700**	**--**	**SEQM**	**7.1**	

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11120
6400 Dublin Blvd., Dublin, CA

ABBREVIATIONS:
TOC = Top of Casing
DTW = Depth to Water
GWE = Groundwater Elevation
GRO = Gasoline range organics, C4-C12
TPH-g = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert butyl either by EPA method 8021B (prior to 6/28/03)
DO = Dissolved oxygen
ug/L = Micrograms per liter
mg/L = Milligrams per liter
< = Not detected at or above laboartory reporting limit
-- = Not sampled/applicable/analyzed/measured
PACE = Pace, Inc.
SEQM = Sequoia Analytical Laboratory

NOTES:

Top of casing elevations surveyed relative to an elevation of 18.409 feet above mean sea level.
Groundwater elevations in feet above mean sea level.
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.
Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

(a) Analyzed by EPA method 8260 B; fuel oxygenates include ethanol, tert-butyl achohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methly ether (TAME); lead scavengers include: 1,2 dichloroethane (1,2-DCA) & ethylene dibromide (EDB
(b) Beginning on the second quarter 2003 monitoring event (6/28/03),TPHg, BTEX, MTBE and fuel oxygenates analyzed by EPA Method 8260B.

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company (RM) and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data

Former BP Station #11120
6400 Dublin Blvd., Dublin, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-8	03/12/2003	<100	<20	4.3/3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	6.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100 (a)	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/21/2004	<100	<20	7.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	**16**	**<20**	**6.6**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**b**
MW-9	03/12/2003	<100	<20	0.59/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100 (a)	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/21/2004	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	**13**	**<20**	**0.72**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**b**
MW-10	03/12/2003	<100	<20	0.76/<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/28/2003	<100	<20	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/30/2003	<100	<20	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/05/2003	<100	<20	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	
	03/10/2004	<100 (a)	<20	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	
	06/21/2004	<100	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/17/2004	**9.4**	**<20**	**0.82**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**b**
MW-11	03/12/2003	<1,000	<200	650/2,900	<5.0	<5.0	<5.0	<5.0	<5.0	
	06/28/2003	<10,000	<2,000	2,500	<50	<50	<50	<50	<50	
	09/30/2003	<5,000	<1,000	3,200	<25	<25	<25	<25	<25	
	12/05/2003	<10,000	<2,000	3,500	<50	<50	<50	<50	<50	
	03/10/2004	<5,000 (a)	<1,000	1,800	<25	<25	<25	<25	<25	
	06/21/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
	09/17/2004	**13**	**<1,000**	**1,700**	**<25**	**<25**	**<25**	**<25**	**<25**	**b**

Table 2

Fuel Additives Analytical Data

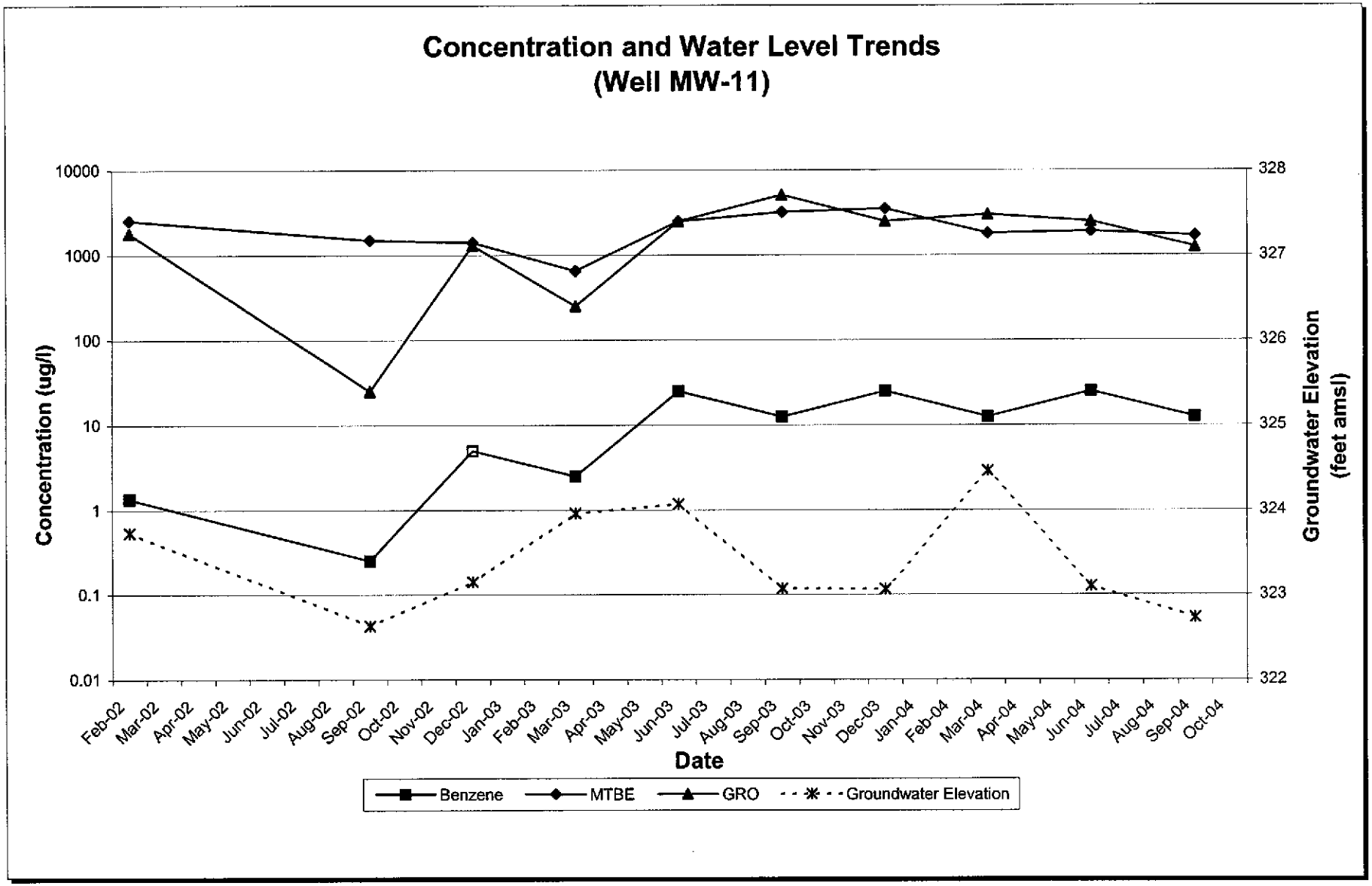
Former BP Station #11120
6400 Dublin Blvd., Dublin, CA

NOTES:
All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, TAME, EDC, and EDB) analyzed using EPA Method 8260B

ABBREVIATIONS:
TBA = Tert-Butyl Alcohol
MTBE = Methyl tert-Butyl Ether
DIPE = Di-isopropyl Ether
ETBE = Ethyl tert-Butyl Ether
TAME = Tert-Amyl Methyl Ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
ug/L = micrograms per liter
< = Not detected at or above laboratory reporting limits.

(a) The continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.
(b) Split samples were analyzed for ethanol by EPA Method 8260B SIM; Ethanol was detected in trip blank at 34 micrograms per liter. Ethanol was not detected in confirmatory analysis of samples and trip blank on a different instrument; however, holding time had expired by then.

ATTACHMENT A
CONCENTRATION AND WATER LEVEL TRENDS
(MW-11)



Former BP Service Station #11120
6400 Dublin Road
Dublin, CA

X:\X_ENV_WASTE\BP GEM\SITES\LNILES SITES\11120\REPORTS\
MONITORING\QTR. 2, 2004\TABLES\11120 GWA 2Q04.XLS\3/19/2004

Chart 1

ATTACHMENT B

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 040917-pc2 Date 9/17/04 Client BP 11120

Site 6400 Dublin Blvd., Dublin.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-8	2					6.38	19.57	TOC	
MW-9	2					7.89	19.62		
MW-10	2					7.49	19.58		
MW-11	2					7.02	19.42		
		* Water under pressure - allowed for stabilization							

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040917-PC2	Station # BP 11120
Sampler: PC	Date: 9/17/04
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.57	Depth to Water: 6.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / ^Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / ^Disposable Bailer / Extraction Port / Other: ____

Top of Screen: ____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
914	73.6	7.4	31.29	2.1	cloudy
917	73.4	7.1	3182	4.2	↓
920	72.6	7.2	3089	6.3	

Did well dewater? Yes (No) Gallons actually evacuated: 63

Sampling Time: 926 Sampling Date: 9/17/04

Sample I.D.: MW-8A/MW-8B Laboratory: Pace Sequoia Other ____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040917-PC2	Station # BP 11120
Sampler: PC	Date: 9/17/04
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.62	Depth to Water: 7.89
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVB) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (S))	Gals. Removed	Observations
1018	74.8	7.5	1169	1.9	cloudy, brown
1021	72.6	7.5	1115	3.8	↓ ↓
1024	72.8	7.5	1085	5.7	↓

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Time: 1030 Sampling Date: 9/17/04

Sample I.D.: MW-9A/9B Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040917-PC2	Station # BP 11120
Sampler: PC	Date: 9/17/04
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.58	Depth to Water: 7.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
940	74.5	7.1	7044	1.9	cloudy
942	73.4	7.0	7334	3.8	↓
945	72.4	7.0	7513	5.7	↓

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Time: 952 Sampling Date: 9/17/04

Sample I.D.: MW-10A / MW-10B Laboratory: Pace (Sequoia) Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040917-PC2	Station # BP-11120
Sampler: PC	Date: 9/17/04
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.42	Depth to Water: 7.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

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

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

Top of Screen: ____

If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

2.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1000	73.8	7.2	2229	2	cloudy, brown
1002	73.8	7.1	2203	4	↓ ↓
1005	73.4	7.1	2190	6	

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 1010 Sampling Date: 9/17/04

Sample I.D.: MW-11A/MB Laboratory: Pace (Sequoia) Other ____

Analyzed for: GRO BTEX MTBE DRO Other: see COC

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

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING** FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

BP-11120
Station #

6400 Dublin Blvd., Dublin
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

23.7

added equip. rinse water 6.3

any other adjustments

TOTAL GALS. RECOVERED 30

loaded onto BTS vehicle # 52

BTS event # 040917-PC2

time 1000

date 9/17/04

signature

* *

REC'D AT BTS

time 1400

date 9/17/04

unloaded by
signature

ATTACHMENT C

LABORATORY PROCEDURES, CERTIFIED ANALYTICAL REPORTS, AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

5 October, 2004

Leonard Niles
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: BP Heritage #11120, Dublin, CA
Work Order: MNI0656

Enclosed are the results of analyses for samples received by the laboratory on 09/20/04 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8A	MNI0656-01	Water	09/17/04 09:26	09/20/04 10:40
MW-9A	MNI0656-02	Water	09/17/04 10:30	09/20/04 10:40
MW-10A	MNI0656-03	Water	09/17/04 09:52	09/20/04 10:40
MW-11A	MNI0656-04	Water	09/17/04 10:10	09/20/04 10:40

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with intact custody seals.

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8A (MNI0656-01) Water Sampled: 09/17/04 09:26 Received: 09/20/04 10:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4I27009	09/27/04	09/27/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.6**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*85 %*	*78-129*		"	"	"	"	
MW-9A (MNI0656-02) Water Sampled: 09/17/04 10:30 Received: 09/20/04 10:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4I27009	09/27/04	09/27/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.72**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10A (MNI0656-03) Water Sampled: 09/17/04 09:52 Received: 09/20/04 10:40									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4I27009	09/27/04	09/27/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	09/27/04	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	09/27/04	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.82**	0.50	"	"	"	"	09/27/04	"	
Toluene	ND	0.50	"	"	"	"	09/27/04	"	
Xylenes (total)	ND	0.50	"	"	"	"	09/27/04	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86 %*	*78-129*		"	"	"	"	
MW-11A (MNI0656-04) Water Sampled: 09/17/04 10:10 Received: 09/20/04 10:40									
tert-Amyl methyl ether	ND	25	ug/l	50	4I27009	09/27/04	09/27/04	EPA 8260B	
Benzene	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**1700**	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*87 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I27009 - EPA 5030B P/T										
Blank (4I27009-BLK1)				Prepared & Analyzed: 09/27/04						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.29*		*"*	*5.00*		*86*	*78-129*			
Laboratory Control Sample (4I27009-BS1)				Prepared & Analyzed: 09/27/04						
tert-Amyl methyl ether	9.00	0.50	ug/l	10.0		90	82-140			
Benzene	9.04	0.50	"	10.0		90	69-124			
tert-Butyl alcohol	48.0	20	"	50.0		96	56-131			
Di-isopropyl ether	9.35	0.50	"	10.0		94	76-130			
1,2-Dibromoethane (EDB)	9.75	0.50	"	10.0		98	77-132			
1,2-Dichloroethane	9.84	0.50	"	10.0		98	77-136			
Ethyl tert-butyl ether	9.10	0.50	"	10.0		91	81-121			
Ethylbenzene	9.10	0.50	"	10.0		91	84-132			
Methyl tert-butyl ether	9.21	0.50	"	10.0		92	63-137			
Toluene	9.27	0.50	"	10.0		93	78-129			
Xylenes (total)	27.0	0.50	"	30.0		90	83-137			
Surrogate: 1,2-Dichloroethane-d4	*4.28*		*"*	*5.00*		*86*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I27009 - EPA 5030B P/T										
Laboratory Control Sample (4I27009-BS2)				Prepared & Analyzed: 09/27/04						
Benzene	5.15	0.50	ug/l	6.40		80	69-124			
Ethylbenzene	7.45	0.50	"	7.52		99	84-132			
Methyl tert-butyl ether	8.42	0.50	"	9.92		85	63-137			
Toluene	31.4	0.50	"	31.9		98	78-129			
Xylenes (total)	35.8	0.50	"	36.6		98	83-137			
Gasoline Range Organics (C4-C12)	481	50	"	440		109	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.30*		"	*5.00*		*86*	*78-129*			
Laboratory Control Sample Dup (4I27009-BSD1)				Prepared: 09/27/04 Analyzed: 09/28/04						
tert-Amyl methyl ether	9.31	0.50	ug/l	10.0		93	82-140	3	20	
Benzene	9.00	0.50	"	10.0		90	69-124	0.4	20	
tert-Butyl alcohol	46.2	20	"	50.0		92	56-131	4	20	
Di-isopropyl ether	9.60	0.50	"	10.0		96	76-130	3	20	
1,2-Dibromoethane (EDB)	9.60	0.50	"	10.0		96	77-132	2	20	
1,2-Dichloroethane	9.78	0.50	"	10.0		98	77-136	0.6	20	
Ethyl tert-butyl ether	9.40	0.50	"	10.0		94	81-121	3	20	
Ethylbenzene	9.13	0.50	"	10.0		91	84-132	0.3	20	
Methyl tert-butyl ether	9.45	0.50	"	10.0		94	63-137	3	20	
Toluene	9.33	0.50	"	10.0		93	78-129	0.6	20	
Xylenes (total)	26.9	0.50	"	30.0		90	83-137	0.4	20	
Surrogate: 1,2-Dichloroethane-d4	*4.40*		"	*5.00*		*88*	*78-129*			
Matrix Spike (4I27009-MS1)	**Source: MNI0656-04**			Prepared: 09/27/04 Analyzed: 09/28/04						
Gasoline Range Organics (C4-C12)	25100	2500	ug/l	22000	2200	104	70-124			
Surrogate: 1,2-Dichloroethane-d4	*3.95*		"	*5.00*		*79*	*78-129*			
Matrix Spike Dup (4I27009-MSD1)	**Source: MNI0656-04**			Prepared: 09/27/04 Analyzed: 09/28/04						
Gasoline Range Organics (C4-C12)	21700	2500	ug/l	22000	2200	89	70-124	15	20	
Surrogate: 1,2-Dichloroethane-d4	*3.35*		"	*5.00*		*67*	*78-129*			*LG*

Sequoia Analytical

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URS Corporation [Arco]	Project: BP Heritage #11120, Dublin, CA	MNI0656
1333 Broadway, Suite 800	Project Number: N/P	**Reported:**
Oakland CA, 94612	Project Manager: Leonard Niles	10/05/04 15:12

Notes and Definitions

LG	Surrogate recovery below the acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Page 1 of 1

Chain of Custody Record

Project Name 11120 GWM

BP BU/GEM CO Portfolio Retail MN10656

BP Laboratory Contract Number: Atlantic Richfield Company

Date: 9/17/04

Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 840	Temp: 75°F
Off-site Time: 1042	Temp: 80°F
Sky Conditions: clear	
Meteorological Events: none	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: 11120	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 6400 Dublin Ave., Dublin, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. 11120	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna_cosper@URSCorp.com
	California Global ID #: T0600101432	Consultant/Contractor Project No.:
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Leonard Niles
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No:

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No. MN10656	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl			Requested Analysis: GRO / BTEX 8260	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)					Sample Point Lat/Long and Comments
1	MW-8A	926		X			-1	3				X			X				X	X					
2	MW-9A	1030		X			-2	3				X			X				X	X					
3	MW-10A	952		X			-3	3				X			X				X	X					
4	MW-11A	1010		X			-4	3				X			X				X	X					
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Cornish						
Sampler's Company: BlaineTech	[signature]	9/20/04	1245	[signature]	9/20/04	1245
Shipment Date:	[signature]	9/20/04	1640	JD	9/20/04	1640
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Custody Seals In Place Yes X No ___ Temperature Blank Yes ___ No X Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No ___

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 1112 D
REC. BY (PRINT) JD
WORKORDER: 0409050

DATE REC'D AT LAB: 9/20/04
TIME REC'D AT LAB: 10 AM
DATE LOGGED IN: 9/22/04

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent; Intact / Broken*				VOA					
2. Chain-of-Custody Present / Absent*									
3. Traffic Reports or Packing List: Present / Absent									
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: 5.2 Is temp 4 +/-2°C? Yes / No**									

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

JD 9/22/04

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

14 October, 2004

Leonard Niles
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: BP Heritage #11120, Dublin, CA
Work Order: MNI0641

Enclosed are the results of analyses for samples received by the laboratory on 09/21/04 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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URS Corporation [Arco]	Project:BP Heritage #11120, Dublin, CA	MNI0641
1333 Broadway, Suite 800	Project Number:N/P	**Reported:**
Oakland CA, 94612	Project Manager:Leonard Niles	10/14/04 16:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8B	MNI0641-01	Water	09/17/04 00:00	09/21/04 16:40
MW-9B	MNI0641-02	Water	09/17/04 00:00	09/21/04 16:40
MW-10B	MNI0641-03	Water	09/17/04 00:00	09/21/04 16:40
MW-11B	MNI0641-04	Water	09/17/04 00:00	09/21/04 16:40
TB-11120-09172004	MNI0641-05	Water	09/17/04 00:00	09/21/04 16:40

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with intact custody seals.

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11120, Dublin, CA	MNI0641
1333 Broadway, Suite 800	Project Number:N/P	**Reported:**
Oakland CA, 94612	Project Manager:Leonard Niles	10/14/04 16:32

Volatile Organic Compounds by EPA method 8260B SIM

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8B (MNI0641-01) Water	**Sampled: 09/17/04 00:00**	**Received: 09/21/04 16:40**							
Ethanol	**16**	5.0	ug/l	1	4I24006	09/24/04	09/24/04	GCMS-SIM	LB
Surrogate: tert-Butyl alcohol-d9		*105 %*	*70-130*		"	"	"	"	
MW-9B (MNI0641-02) Water	**Sampled: 09/17/04 00:00**	**Received: 09/21/04 16:40**							
Ethanol	**13**	5.0	ug/l	1	4I24006	09/24/04	09/24/04	GCMS-SIM	LB
Surrogate: tert-Butyl alcohol-d9		*105 %*	*70-130*		"	"	"	"	
MW-10B (MNI0641-03) Water	**Sampled: 09/17/04 00:00**	**Received: 09/21/04 16:40**							
Ethanol	**9.4**	5.0	ug/l	1	4I24006	09/24/04	09/24/04	GCMS-SIM	LB
Surrogate: tert-Butyl alcohol-d9		*115 %*	*70-130*		"	"	"	"	
MW-11B (MNI0641-04) Water	**Sampled: 09/17/04 00:00**	**Received: 09/21/04 16:40**							
Ethanol	**13**	5.0	ug/l	1	4I24006	09/24/04	09/24/04	GCMS-SIM	LB
Surrogate: tert-Butyl alcohol-d9		*84 %*	*70-130*		"	"	"	"	
TB-11120-09172004 (MNI0641-05) Water	**Sampled: 09/17/04 00:00**	**Received: 09/21/04 16:40**							**BU**
Ethanol	**34**	5.0	ug/l	1	4J08010	10/08/04	10/08/04	GCMS-SIM	LB
Surrogate: tert-Butyl alcohol-d9		*102 %*	*70-130*		"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project:BP Heritage #11120, Dublin, CA	MNI0641
1333 Broadway, Suite 800	Project Number:N/P	**Reported:**
Oakland CA, 94612	Project Manager:Leonard Niles	10/14/04 16:32

Volatile Organic Compounds by EPA method 8260B SIM - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I24006 - EPA 5030B P/T / GCMS-SIM										
Blank (4I24006-BLK1)				Prepared & Analyzed: 09/24/04						
Ethanol	ND	5.0	ug/l							
Surrogate: tert-Butyl alcohol-d9	*46.4*		"	*50.0*		*93*	*70-130*			
Laboratory Control Sample (4I24006-BS1)				Prepared & Analyzed: 09/24/04						
Ethanol	20.8	5.0	ug/l	20.0		104	31-143			
Surrogate: tert-Butyl alcohol-d9	*46.6*		"	*50.0*		*93*	*70-130*			
Laboratory Control Sample Dup (4I24006-BSD1)				Prepared & Analyzed: 09/24/04						
Ethanol	20.2	5.0	ug/l	20.0		101	31-143	3	20	
Surrogate: tert-Butyl alcohol-d9	*51.4*		"	*50.0*		*103*	*70-130*			
Batch 4J08010 - EPA 5030B P/T / GCMS-SIM										
Blank (4J08010-BLK1)				Prepared & Analyzed: 10/08/04						
Ethanol	ND	5.0	ug/l							
Surrogate: tert-Butyl alcohol-d9	*50.7*		"	*50.0*		*101*	*70-130*			
Laboratory Control Sample (4J08010-BS1)				Prepared & Analyzed: 10/08/04						
Ethanol	44.0	5.0	ug/l	40.0		110	31-143			
Surrogate: tert-Butyl alcohol-d9	*44.8*		"	*50.0*		*90*	*70-130*			
Laboratory Control Sample Dup (4J08010-BSD1)				Prepared & Analyzed: 10/08/04						
Ethanol	43.3	5.0	ug/l	40.0		108	31-143	2	20	
Surrogate: tert-Butyl alcohol-d9	*44.9*		"	*50.0*		*90*	*70-130*			

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URS Corporation [Arco]	Project:BP Heritage #11120, Dublin, CA	MNI0641
1333 Broadway, Suite 800	Project Number:N/P	**Reported:**
Oakland CA, 94612	Project Manager:Leonard Niles	10/14/04 16:32

Notes and Definitions

LB	Confirmatory analysis past hold time. Orig.result not confirmed.
BU	Sample analyzed after holding time expired
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

Project Name 11120 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 day TAT

Date: 9/17/04

On-site Time:	840 Temp: 75°F
Off-site Time:	1040 Temp: 80°F
Sky Conditions:	clear
Meteorological Events:	none
Wind Speed:	Direction:

Send To:
Lab Name: SEQUOIA
Lab Address: 885 Jarvis Dr.
Morgan Hill, CA 95037
Lab PM Lisa Race
Tele/Fax: 408-778-9800 / 408-782-6308
Report Type & QC Level: 1 Send EDF Reports
BP/GEM Account No.: 400-6-21124
Lab Bottle Order No:

BP/GEM Facility No.: 11120
BP/GEM Facility Address: 6400 Dublin Ave., Dublin, CA
Site ID No. 11120
Site Lat/Long:
California Global ID #: T0600101432
BP/GEM PM Contact: PAUL SUPPLE
Address: P.O. Box 6549
Moraga, CA 94570
Tele/Fax: 925-299-8891/925-299-8872

Consultant/Contractor: URS
Address: 1333 Broadway, Suite 800
Oakland, CA 94612
e-mail EDD: donna_cosper@URSCorp.com
Consultant/Contractor Project No.:
Consultant Tele/Fax: 510-893-3600/510-874-3268
Consultant/Contractor PM: Leonard Niles
Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:

MTR0641

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: Ethanol (SIM)	Sample Point Lat/Long and Comments
1	MW-8B			X			01	3				1	X	GRO/BTEX/MTBE concentrations are elevated and multiple dilutions may be required for Ethanol analysis. Report Ethanol only do not report Methanol
2	MW-9B			1			02	3				X	X	
3	MW-10B			1			03	3				1	X	
4	MW-11B			1			04	3				X	X	
5	TB-11120-091704			X			TB Hold	2						
6														
7														
8														
9														
10														

Alternate method (8015)

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Conwich		9/17/04	1245		9/17/04	1245
Sampler's Company: Blaine Tech		9/17/04	1640	TD	9/17/04	1640
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Custody Seals In Place Yes ~~No~~ No Temperature Blank Yes ~~No~~ No Cooler Temperature on Receipt °F/C Trip Blank Yes ~~No~~ No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 1112 D
REC. BY (PRINT): TD
WORKORDER: 4010641

DATE REC'D AT LAB: 9/20/04
TIME REC'D AT LAB: 1618
DATE LOGGED IN: 9-22-04

For Regulatory Purposes?
DRINKING WATER YES / (NO)
WASTE WATER (YES) / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) (Present / Absent) Intact / Broken*				VOA					
2. Chain-of-Custody (Present / Absent*									
3. Traffic Reports or Packing List: Present / Absent*									
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #:									
6. Sample Labels: (Present / Absent									
7. Sample IDs: (Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: (Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? (Yes / No*									
10. Sample received within hold time? (Yes / No*									
11. Adequate sample volume received? (Yes / No*									
12. Proper Preservatives used? (Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) (Yes / No*									
14. Temp Rec. at Lab: 3.4 Is temp 4 +/-2°C? (Yes / No**									

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

9/20/04

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

Memorandum

Date: October 14, 2004

To: Mr. Kimball R. Loeb – EnviroSolve Corporation

From: Mr. Thomas M. Roberts III – Environmental Standards, Inc.

cc: Mr. Rock J. Vitale, CEAC, CPC – Environmental Standards, Inc.

Subject: Evaluation of the Ethanol Results Observed in samples MW-8B, MW-9B, MW-10B, and MW-11B, Sampled on September 17, 2004, at the BP #11120, Dublin, California Site

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This memo provides a comprehensive assessment of the evaluation of ethanol in samples MW-8B, MW-9B, MW-10B, and MW-11B, sampled on September 17, 2004, at the BP #11120, Dublin, California site. This assessment is based on an electronic review of the EnviroQuant® files associated with the analysis of these samples (received by Environmental Standards on October 9, 2004).

Sequoia Analytical (Sequoia) was requested to submit the electronic data associated with the reported positive results for ethanol, including all associated calibration files, quality control (QC) sample files, files for sample analyses preceding the positive results, and files for all associated blank analyses (*i.e.*, method, instrument, field, trip, holding, *etc.*), to Environmental Standards. Upon receipt of these data, the Environmental Standards data reviewer reviewed the data files to ensure that all requested data files had been provided. The findings offered in this assessment are based on a review of the blank analysis results, calibrations, the quantitation of positive results, carryover contamination from previous sample analyses, and a critical evaluation of instrumental raw data.

It should be noted that the samples for this project were analyzed using an atypical GC/MS-Selective Ion Monitoring (SIM) technique; the SIM analysis was specifically requested by the consultant project manager. This method of analysis results in much lower detection and reporting limits for a given compound (for ethanol, the reporting limit was 5 µg/L for the project samples); however, if the mass ions chosen for monitoring are not unique to ethanol at the expected retention time, interferences from other common hydrocarbons can invalidate the use of SIM to positively identify and quantify ethanol. The laboratory used mass ions m/z=45 and 46 for SIM and, unfortunately, these mass ions are very common in the mass spectra of many hydrocarbons.

- Sequoia observed an initial low-level positive result for ethanol in sample MW-8B (lab sample ID MNI0641-01) at an instrument level concentration of 15.6 µg/L. This sample was reanalyzed on a separate instrument and the result for ethanol was "not-detected" (reporting limit of 5 µg/L).

1140 Valley Forge Road • P.O. Box 810 • Valley Forge, PA 19482-0810
T: 610-935-5577 • F: 610-935-5583 • www.envstd.com • solutions@envstd.com

- Sequoia observed an initial low-level positive result for ethanol in sample MW-9B (lab sample ID MNI0641-02) at an instrument level concentration of 12.6 µg/L. This sample was reanalyzed on a separate instrument and the result for ethanol was "not-detected."

- Sequoia observed an initial low-level positive result for ethanol in sample MW-10B (lab sample ID MNI0641-03) at an instrument level concentration of 9.4 µg/L. This sample was reanalyzed on a separate instrument and the result for ethanol was "not-detected."

- Sequoia observed an initial low-level positive result for ethanol in sample MW-11B (lab sample ID MNI0641-04) at an instrument level concentration of 12.6 µg/L. This sample was reanalyzed on a separate instrument and the result for ethanol was "not-detected."

A positive result for ethanol was observed in the trip blank associated with the project samples. The initial analysis of the trip blank displayed a low-level result for ethanol (33.7 µg/L); however, the trip blank was reanalyzed and a "not-detected" result was observed for ethanol. Positive results for ethanol were not observed in the method blanks associated this the project samples. Qualification of data due to method blank contamination was not warranted because the initial positive result for ethanol in the trip blank was not confirmed upon reanalysis.

The samples analyzed immediately before the project samples were evaluated, and the data reviewer determined that carryover contamination was not a factor relative to the validity of the initial positive results for ethanol in the samples. The initial analyses of the project samples were preceded by the analysis of samples displaying low-level positive results or "not-detected" results for ethanol.

In conclusion, the initial positive results for ethanol in samples MW-8B, MW-9B, MW-10B, and MW-11B were not confirmed upon reanalysis of the samples on a separate instrument.

ATTACHMENT D

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	11/1/2004 6:09:31 PM
GLOBAL ID:	T0600101432
FILE UPLOADED:	BP#11120-EDF-MNI0641.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

When you complete the submittal process, you will be given a confirmation number for your submittal.

Click here to view the detections report for this upload.

BP
6400 DUBLIN BLVD
DUBLIN, CA 94568

Regional Board - Case #: 01-1556
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 2095
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260SIM
TESTED FOR REQUIRED ANALYTES?	N

MISSING PARAMETERS NOT TESTED:
- 8260SIM REQUIRES MTBE TO BE TESTED
- 8260SIM REQUIRES ETBE TO BE TESTED
- 8260SIM REQUIRES TAME TO BE TESTED
- 8260SIM REQUIRES DIPE TO BE TESTED
- 8260SIM REQUIRES TBA TO BE TESTED
- 8260SIM REQUIRES DCA12 TO BE TESTED
- 8260SIM REQUIRES EDB TO BE TESTED
- 8260SIM REQUIRES BZ TO BE TESTED
- 8260SIM REQUIRES BZME TO BE TESTED
- 8260SIM REQUIRES EBZ TO BE TESTED
- 8260SIM REQUIRES XYLENES TO BE TESTED

LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0

LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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Confirmation Number: 8441543221
Date/Time of Submittal: 11/1/2004 6:10:45 PM
Facility Global ID: T0600101432
Facility Name: BP
Submittal Title: 3Q 2004 Ethanol Data BP Heritage Site 11120
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BP 6400 DUBLIN BLVD DUBLIN, CA 94568	**Regional Board - Case #: 01-1556** SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)** **Local Agency (lead agency) - Case #: 2095** ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
8441543221	3Q 2004 Ethanol Data BP Heritage Site 11120	Q3 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	11/1/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260SIM
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260SIM REQUIRES MTBE TO BE TESTED	
- 8260SIM REQUIRES ETBE TO BE TESTED	
- 8260SIM REQUIRES TAME TO BE TESTED	
- 8260SIM REQUIRES DIPE TO BE TESTED	
- 8260SIM REQUIRES TBA TO BE TESTED	
- 8260SIM REQUIRES DCA12 TO BE TESTED	
- 8260SIM REQUIRES EDB TO BE TESTED	
- 8260SIM REQUIRES BZ TO BE TESTED	
- 8260SIM REQUIRES BZME TO BE TESTED	
- 8260SIM REQUIRES EBZ TO BE TESTED	
- 8260SIM REQUIRES XYLENES TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N

- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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Your file has been successfully submitted!

Submittal Title:	**Third Quarter 2004 QMR. Site #11120**
Submittal Date/Time:	**10/13/2004 3:52:39 PM**
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CONTACT SITE ADMINISTRATOR.

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
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Confirmation Number: 5412899017
Date/Time of Submittal: 10/13/2004 3:53:51 PM
Facility Global ID: T0600101432
Facility Name: BP
Submittal Title: Third Quarter 2004 QMR. Site #11120
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BP 6400 DUBLIN BLVD DUBLIN, CA 94568	**Regional Board - Case #: 01-1556** SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)** **Local Agency (lead agency) - Case #: 2095** ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
5412899017	Third Quarter 2004 QMR. Site #11120	Q3 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	10/13/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

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BP
6400 DUBLIN BLVD
DUBLIN, CA 94568

Regional Board - Case #: 01-1556
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**

Local Agency (lead agency) - Case #: 2095
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES ETHANOL TO BE TESTED	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y

- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

ATTACHMENT E

HISTORICAL GROUNDWATER ANALYTICAL DATA FOR FORMER WELLS ABANDONDED IN 1999 (SOURCE ALISTO ENGINEERING)

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1 (c)	10/27/92	328.96	8.19	320.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-1	04/09/93	328.96	4.79	324.17	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-1	09/25/93	328.96	6.85	322.11	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-1	11/22/93	328.96	7.38	321.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-1	03/07/94	328.96	5.89	323.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-1	06/09/94	328.96	6.42	322.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.9	PACE
MW-1	09/12/94	328.96	7.33	321.63	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	8.8	PACE
MW-1	12/20/94	328.96	6.34	322.62	—	—	—	—	—	—	—	7.6	PACE
MW-1	03/16/95	328.96	4.37	324.59	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—
MW-1	06/29/95	328.96	5.35	323.61	—	—	—	—	—	—	—	5.0	ATI
MW-1	09/06/95	328.96	6.44	322.52	—	—	—	—	—	—	—	—	—
MW-1	12/22/95	328.96	6.04	322.92	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.4	ATI
MW-1	06/20/96	328.96	5.65	323.31	—	—	—	—	—	—	—	—	—
MW-1	09/21/96	328.96	—	—	—	—	—	—	—	—	—	—	—
MW-1	10/31/96	328.96	5.99	322.97	ND<50	160	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.8	SPL
MW-1 (d)	12/02/96	328.96	—	—	—	—	—	—	—	—	—	—	—
MW-1 (d)	06/26/98	328.96	—	—	—	—	—	—	—	—	—	—	—
MW-2	10/27/92	328.50	7.64	320.86	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	04/09/93	328.50	4.12	324.38	ND<50	80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	09/25/93	328.50	6.31	322.19	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	11/22/93	328.50	7.12	321.38	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	03/07/94	328.50	5.60	322.90	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.3	PACE
MW-2	06/09/94	328.50	5.91	322.59	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	8.2	PACE
MW-2	09/12/94	328.50	6.67	321.83	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	7.5	PACE
MW-2	12/20/94	328.50	5.86	322.64	—	—	—	—	—	—	—	—	—
MW-2	03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.6	ATI
MW-2	06/29/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.6	ATI
MW-2	09/06/95	328.50	4.33	324.17	—	—	—	—	—	—	—	—	—
MW-2	12/22/95	328.50	5.85	322.65	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.0	ATI
MW-2	06/20/96	328.50	5.50	323.00	—	—	—	—	—	—	—	—	—
MW-2	09/21/96	328.50	5.07	323.43	—	—	—	—	—	—	—	—	—
MW-2	10/31/96	328.50	—	—	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.0	SPL
MW-2	12/02/96	328.50	5.44	323.06	—	—	—	—	—	—	—	—	—
MW-2	03/27/97	328.50	5.50	323.00	—	—	—	—	—	—	—	—	—
MW-2	06/03/97	328.50	4.61	323.89	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-2	09/16/97	328.50	7.14	321.36	—	—	—	—	—	—	—	—	—
MW-2	12/03/97	328.50	6.10	322.40	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.2	SPL
MW-2	06/26/98	328.50	6.22	322.28	—	—	—	—	—	—	—	—	—
			4.68	323.84	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	10/27/92	329.36	8.43	320.93	210	ND<50	3	0.7	0.9	30	—	—	PACE
MW-3	04/09/93	329.36	4.90	324.46	400	260	6.1	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	08/25/93	329.36	7.13	322.23	2000	440	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3300 (d)	—	PACE
MW-3	11/22/93	329.36	7.80	321.76	1600	360	ND<2.5	ND<2.5	ND<2.5	ND<2.5	910 (e)	—	PACE
MW-3	03/07/94	329.36	6.08	323.28	1300	5000	22	4.0	2.2	3.8	7200 (e)	3.7	PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	25	8.3	0.5	15	13000 (e)	7.2	PACE
OC-1 (f)	06/09/94	—	—	—	8600	—	23	6.3	0.5	10	13000 (e)	—	PACE
MW-3	09/12/94	329.36	7.63	321.73	2100	3200	ND<5.0	ND<5.0	6.8	20	3800 (e)	7.3	PACE
OC-1 (f)	09/12/94	—	—	—	1800	—	ND<5.0	ND<5.0	6.0	10	3900 (e)	—	PACE
MW-3	12/20/94	329.36	6.41	322.95	16000	9600	79	28	69	9.3	—	7.3	PACE
OC-1 (f)	12/20/94	—	—	—	17000	—	79	33	80	ND<2.5	—	—	PACE
MW-3	03/16/95	329.36	4.39	324.97	6300	7000	470	ND<5.0	210	9.9	—	5.5	ATI
OC-1 (f)	03/16/95	—	—	—	6300	—	500	ND<5.0	230	19	—	—	ATI
MW-3	06/28/95	329.36	5.50	323.86	9000	3000 (g)	ND<10	ND<10	ND<10	ND<20	—	7.4	ATI
OC-1 (f)	06/28/95	—	—	—	8600	— (g)	ND<10	ND<10	ND<10	ND<20	—	—	ATI
MW-3	09/06/95	329.36	6.66	322.70	10000	2800	ND<50	ND<50	ND<50	ND<100	37000	7.1	ATI
OC-1 (f)	09/06/95	—	—	—	9700	—	ND<50	ND<50	ND<50	ND<100	38000	—	ATI
MW-3	12/22/95	329.36	6.31	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	29000	6.7	ATI
MW-3	06/20/96	329.36	5.87	323.49	—	—	—	—	—	—	—	—	ATI
MW-3	09/21/96	329.36	—	—	3700	1900	ND<25	ND<50	ND<50	ND<50	4100	6.8	SPL
OC-1 (f)	09/21/96	—	—	—	3500	—	ND<25	ND<50	ND<50	ND<50	4000	—	SPL
MW-3	10/31/96	329.36	6.20	323.16	ND<250	ND<500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
OC-1 (f)	10/31/96	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	12/02/96	329.36	6.27	323.09	ND<250	50	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	SPL
OC-1 (f)	12/02/96	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	03/27/97	329.36	5.39	323.97	470	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	480	6.2	SPL
MW-3	06/03/97	329.36	7.92	321.44	ND<250	100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
OC-1 (f)	06/03/97	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
MW-3	09/16/97	329.36	6.67	322.69	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	5.8	SPL
MW-3	12/03/97	329.36	6.81	322.55	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
OC-1 (f)	12/03/97	—	—	—	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-3	06/26/98	329.36	5.06	324.26	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		DO (ppm)	LAB
MW-4		10/27/92	329.45	5.61	320.84	2300	190	23	54	50	320	—		—	PACE
MW-4		04/09/93	329.45	5.25	324.20	1600	500	76	3.5	88	1.0	—		—	PACE
MW-4		08/25/93	329.45	7.32	322.13	1800	380	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	—	PACE
QC-1	(f)	08/25/93	—	—	—	1600	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	—	PACE
MW-4		11/22/93	329.45	7.63	321.82	610	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		—	PACE
QC-1	(f)	11/22/93	—	—	—	1700	—	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3500	(e)	—	PACE
MW-4		03/07/94	329.45	6.29	323.16	710	1400	0.5	0.8	ND<0.5	ND<0.5	5900	(e)	3.8	PACE
QC-1	(f)	03/07/94	—	—	—	1600	—	ND<0.5	ND<0.5	1.4	0.6	4200	(e)	—	PACE
MW-4		06/09/94	329.45	6.76	322.69	6400	1600	ND<10	ND<10	ND<10	ND<10	10000	(e)	7.5	PACE
MW-4		09/12/94	329.45	7.63	321.82	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4200	(e)	7.2	PACE
MW-4		12/20/94	329.45	6.68	322.77	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	—		6.1	PACE
MW-4		03/16/95	329.45	4.66	324.79	1400	990	140	ND<2.5	58	14	—		5.5	ATI
MW-4		06/28/95	329.45	5.93	323.52	5000	5400	(g) 240	ND<5.0	220	ND<10	—		7.4	ATI
MW-4		09/06/95	329.45	6.63	322.82	4400	4500	ND<13	ND<13	ND<13	ND<25	12000		7.8	ATI
MW-4		12/22/95	329.45	6.42	323.03	3800	4700	16	ND<13	ND<13	ND<25	9200		7.1	ATI
QC-1	(f)	12/22/95	—	—	—	3900	—	16	ND<13	ND<13	ND<25	8600		—	ATI
MW-4		06/20/96	329.45	6.01	323.44	—	—	—	—	—	—	—		—	—
MW-4		06/21/96	329.45	—	—	ND<250	470	ND<12	ND<25	ND<25	ND<25	ND<250		7.7	SPL
MW-4		10/31/96	329.45	6.37	323.08	ND<250	1600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		7.1	SPL
MW-4		12/02/96	329.45	6.71	322.74	ND<50	13000	ND<5	ND<10	ND<10	ND<10	2200		7.3	SPL
MW-4		03/27/97	329.45	5.70	323.75	8300	1500	44	ND<25	ND<25	ND<25	8000		6.2	SPL
QC-1	(f)	03/27/97	—	—	—	6900	—	51	ND<25	ND<25	ND<25	8500		—	SPL
MW-4		06/03/97	329.45	8.37	321.08	2800	270	62	ND<1.0	ND<1.0	ND<1.0	7000		7.1	SPL
MW-4		09/16/97	329.45	6.91	322.54	110	1800	0.80	ND<1.0	ND<1.0	ND<1.0	7700		6.2	SPL
QC-1	(f)	09/16/97	—	—	—	130	—	1.2	ND<1.0	ND<1.0	1.1	7100		—	SPL
MW-4		12/03/97	329.45	7.16	322.29	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		6.0	SPL
MW-4		06/28/98	329.45	5.15	324.30	520	—	0.52	ND<1.0	ND<1.0	ND<1.0	1100		5.3	SPL
MW-5		04/09/93	329.60	5.18	324.42	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		—	PACE
MW-5		08/25/93	329.60	7.28	322.32	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		—	PACE
MW-5		11/22/93	329.60	7.82	321.78	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		—	PACE
MW-5		03/07/94	329.60	6.27	323.33	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		5.7	PACE
MW-5		06/09/94	329.60	6.73	322.87	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		7.7	PACE
MW-5		09/12/94	329.60	7.78	321.82	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—		7.2	PACE
MW-5		12/20/94	329.60	6.63	322.97	—	—	—	—	—	—	—		—	—
MW-5		03/16/95	329.60	4.65	324.95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—		4.9	ATI
MW-5		06/28/95	329.60	5.69	323.91	—	—	—	—	—	—	—		—	—
MW-5		09/06/95	329.60	6.82	322.78	ND<50	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		7.3	ATI
MW-5		12/22/95	329.60	6.40	323.20	—	—	—	—	—	—	—		—	—
MW-5		09/20/96	329.60	5.98	323.62	—	—	—	—	—	—	—		—	—
MW-5		09/21/96	329.60	—	—	ND<50	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10		6.9	SPL
MW-5		10/31/96	329.60	6.29	323.31	—	—	—	—	—	—	—		—	—
MW-5		12/02/96	329.60	6.37	323.23	—	—	—	—	—	—	—		—	—
MW-5		03/27/97	329.60	5.33	324.27	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		5.8	SPL
MW-5		06/03/97	329.60	8.00	321.60	—	—	—	—	—	—	—		—	—
MW-5		09/16/97	329.60	6.89	322.71	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	27		6.4	SPL
MW-5		12/03/97	329.60	6.99	322.61	—	—	—	—	—	—	—		—	—
MW-5		06/28/98	329.60	5.11	324.49	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		4.7	SPL

21-/ug-98

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	04/09/93	329.58	6.57	324.18	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	08/25/93	329.55	7.42	322.13	ND<50	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	11/22/93	329.55	7.93	321.62	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-6	03/07/94	329.55	6.25	323.30	ND<50	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.2	PACE
MW-6	06/09/94	329.55	6.85	322.70	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	7.0	PACE
MW-6	09/12/94	329.55	7.91	321.64	ND<50	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.7	PACE
MW-6	12/20/94	329.55	6.82	322.73	—	—	—	—	—	—	—	—	—
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.1	ATI
MW-6	06/26/95	329.55	5.97	323.58	—	—	—	—	—	—	—	—	—
MW-6	09/06/95	329.55	6.94	322.61	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.2	ATI
MW-6	12/22/95	329.55	6.53	323.02	—	—	—	—	—	—	—	—	—
MW-6	06/20/96	329.55	6.18	323.37	—	—	—	—	—	—	ND<5.0	—	—
MW-6	09/21/96	329.55	—	—	ND<50	120	ND<0.5	ND<1.0	ND<1.0	ND<1.0	—	—	—
MW-6	10/31/96	329.55	6.52	323.03	—	—	—	—	—	—	ND<10	—	SPL
MW-6	12/02/96	329.55	6.55	323.00	—	—	—	—	—	—	—	—	—
MW-6	03/27/97	329.55	5.50	324.05	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.3	SPL
MW-6	06/03/97	329.55	6.19	321.36	—	—	—	—	—	—	—	—	—
MW-6	09/16/97	329.55	6.05	322.60	ND<250	680	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
MW-6	12/03/97	329.55	7.22	322.33	—	—	—	—	—	—	—	—	—
MW-6	06/26/98	329.55	5.20	324.35	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.9	SPL
MW-7	04/09/93	329.49	5.36	324.13	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	08/25/93	329.49	7.44	322.05	ND<50	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	11/22/93	329.49	7.92	321.57	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	03/07/94	329.49	6.20	323.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	3.7	PACE
MW-7	06/09/94	329.49	6.89	322.60	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	5.8	PACE
MW-7	09/12/94	329.49	7.87	321.62	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	12/20/94	329.49	6.77	322.72	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	6.8	PACE
MW-7	03/16/95	329.49	4.77	324.72	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.5	PACE
MW-7	06/26/95	329.49	5.94	323.55	ND<50	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	5.9	ATI
MW-7	09/06/95	329.49	6.98	322.51	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.6	ATI
MW-7	12/22/95	329.49	6.85	322.64	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	6.5	7.5	ATI
MW-7	06/20/96	329.49	6.22	323.27	—	—	—	—	—	—	7.2	6.9	ATI
MW-7	09/21/96	329.49	—	—	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	—	—	—
MW-7	10/31/96	329.49	6.56	322.93	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-7	12/02/96	329.49	6.13	323.36	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	86	6.8	SPL
MW-7	03/27/97	329.49	5.08	324.41	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	58	7.3	SPL
MW-7	06/03/97	329.49	7.80	321.69	650	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.6	SPL
MW-7	09/16/97	329.49	6.50	322.99	120	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	630	6.9	SPL
MW-7	12/03/97	329.49	6.66	322.83	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2200	6.9	SPL
MW-7 (h)	06/26/98	329.49	4.96	324.53	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
												5.1	SPL

24-Aug-98

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2	(i)	08/25/93	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	11/22/93	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	03/07/94	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	06/09/94	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	09/12/94	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	12/20/94	—	—	—	ND<80	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2	(i)	03/16/95	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
QC-2	(i)	06/29/95	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
QC-2	(i)	09/06/95	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	ATI
QC-2	(i)	12/22/95	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	ATI

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
—	Not analyzed/applicable/measured
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

(a) Top of casing elevations surveyed to an arbitrary datum.

(b) Groundwater elevations relative to an arbitrary datum.

(c) Analysis did not detect total oil and grease and halogenated volatile organic compounds above reported detection limits.

(d) Well inaccessible.

(e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-170-05-001.

(f) Blind duplicate.

(g) MTBE peak. Refer to documentation for this data in Appendix C of Alisto report 10-170-05-001.

(h) Analysis did not detect volatile organic compounds above reported detection limits.

(i) Travel blank.

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TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING FOR EPA METHOD 8260 ANALYSIS
BP OIL COMPANY SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	TAME (ug/l)	LAB
MW-4	09/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL
MW-7	09/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL

ABBREVIATIONS:

B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DIPE	Di-isopropyl ether
ETBE	Ethyl t-butyl ether
TBA	t-butyl ether
TAME	tert-amyl methyl ether
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
SPL	Southern Petroleum Laboratories

F:\01\10-170\10-170EC.WQ2

02-Sep-98