Delta
Environmental Consultants, Inc.

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December 5, 2005

Dr. Steven Speer
Orange County Health Care Agency
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, California 92705

Sent via UPS

Subject: Quarterly Update Report Submittal

Dear Dr. Speer:

On behalf of Atlantic Richfield Company, Delta Environmental Consultants, Inc. is submitting the enclosed Quarterly Update Report for the Fourth Quarter 2005. The enclosed quarterly report was prepared for the following ARCO Facility:

ARCO Facility No.	OCHCA Case No.	Location
0629	95UT62	13482 Brookhurst Street, Garden Grove

If you have any questions regarding this project, please contact Christopher Ota (949) 860-0209.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

REGISTERED GEOLOGIST
Bryan L. Van Wagner
No. 5820
STATE OF CALIFORNIA

Christopher Ota
Project Manager

Bryan Van Wagner
California Professional Geologist No. 5820
California Hydrogeologist No. 295

Enclosure: Atlantic Richfield Company Quarterly Update Report

cc: Mr. Darrell Fah, Atlantic Richfield Company, La Palma, California
Ms. Valerie Jahn-Bull, CRWQCB, Santa Ana Region, Riverside, California
Mr. Mike Higuchi, England Geosystem, Inc., Irvine, California

(c:\coverletters\0629.doc)

ATLANTIC RICHFIELD COMPANY QUARTERLY UPDATE REPORT
FOURTH QUARTER 2005
DECEMBER 8, 2005

Facility No.: 0629 Address:	13482 Brookhurst Street, Garden Grove, California
Atlantic Richfield Company Environmental Business Manager / Phone No.:	Darrell Fah / (714) 378-5105
Consulting Co. / Contact Person / Phone No.:	Delta Environmental / Chris Ota / (949) 860-0209
Primary Agency / Contact Person / Regulatory ID No.:	Orange County Health Care Agency – Local Oversight Program (OCLOP) / Steven Speer / 95UT62-Case Closed
Other Agencies to Receive Copies:	California Regional Water Quality Control Board - Santa Ana Region / Valerie Jahn-Bull

WORK PERFORMED THIS QUARTER (Fourth – 2005):

1. Submitted the third quarter 2005 *Quarterly Update Report* to the OCLOP on September 9, 2005.
2. Doulos Environmental, Inc. conducted quarterly groundwater monitoring and no-purge sampling activities on October 24, 2005 (sampling information sheet is included as Attachment A). During the fourth quarter 2005, groundwater samples were collected from four wells (MW-1, MW-4, MW-9 and MW-9d). Deeply screened well MW-9d was purged of 1 well volume, using a peristaltic pump, prior to sampling. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline according to Environmental Protection Agency (EPA) Method 8015B and for benzene, ethylbenzene, toluene, and xylenes according to EPA Method 8021B. In addition, samples were analyzed for methyl *tert*-butyl ether (MTBE), di-isopropyl ether, *tert*-amyl methyl ether, ethyl *tert*-butyl ether, *tert*-butanol, and ethanol according to EPA Method 8260B. Historical groundwater elevation and analytical results are summarized in Tables 1 and 2, respectively. A copy of the laboratory analytical report and chain-of-custody documentation is included as Attachment B.
3. Received *Remedial Action Completion Certificate,* dated November 17, 2005, from the OCLOP.
4. On December 8 and 9, 2005, Delta will be onsite to oversee destruction of all wells by the method of over-drilling to terminal depth, backfilling with bentonite grout, and patching the borehole to match the surrounding surface. Before work is commenced, well destruction permits will be obtained from the OCLOP and an encroachment permit will be obtained from the City of Garden Grove.

WORK PROPOSED FOR THE NEXT QUARTER (First – 2005):

1. Submit fourth quarter 2005 *Quarterly Update Report* to the OCLOP within 45 days following the fourth quarter 2005 sampling event.
2. Submit a well destruction report, summarizing well destruction activities, within 45 days following drilling activities.

Current Phase of Project:	Groundwater Monitoring
Frequency of Sampling:	Groundwater – Semi-Annual / Quarterly
Frequency of Monitoring:	Groundwater – Quarterly
Permits for Discharge (No.):	None
Approximate Depth to Groundwater:	13.73 – 18.93 feet Measured X Estimated
Groundwater Gradient:	0.01 ft/ft (Magnitude) S (Direction)

ATLANTIC RICHFIELD COMPANY QUARTERLY UPDATE REPORT
FOURTH QUARTER 2005
DECEMBER 8, 2005

Facility No.: 0629 Address: 13482 Brookhurst Street, Garden Grove, California

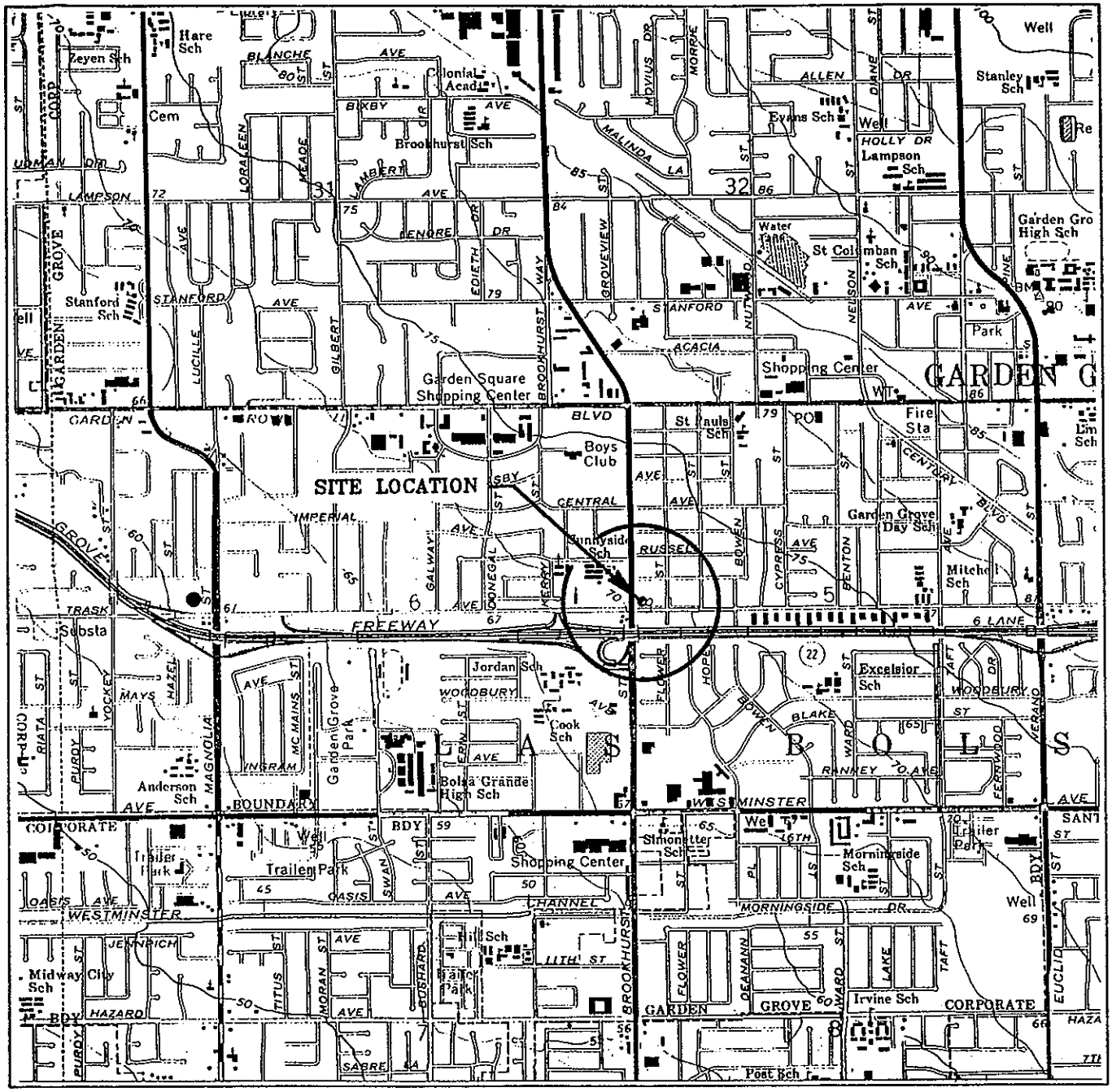
DISCUSSION:

During the fourth quarter 2005, four wells (MW-1, MW-4, MW-9 and MW-9d) were sampled. Groundwater conditions observed during this quarter remained consistent with the previous quarters.

The OCLOP notified the Atlantic Richfield Company in correspondence dated November 17, 2005, confirming the completion of site investigation and corrective action for this site. Groundwater monitoring and sampling will be discontinued and all ten groundwater monitoring wells (MW-1 through MW-9 and MW-9d) will be destroyed on December 8 and 9, 2005. The method employed to destroy the wells will be over-drilling to terminal depth, backfilling with bentonite grout, and patching the borehole to match the surrounding surface. A well destruction report summarizing well destruction activities will be submitted within 45 days following drilling activities; thereby, concluding activity at this site.

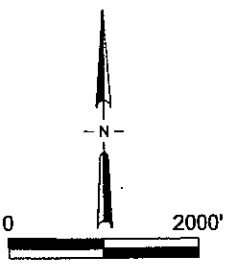
ATTACHMENTS:

Site Location Map (Figure 1)
Groundwater Elevation Contour Map (Figure 2)
Groundwater Analyses Map (Figure 3)
Historical Groundwater Elevation Data (Table 1)
Historical Groundwater Analytical Results (Table 2)
Sampling Information Sheets (Attachment A)
Laboratory Report and Chain-of-Custody Documentation (Attachment B)



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
ANAHEIM, CA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP
1965
PHOTOREVISED 1981

QUADRANGLE LOCATION



SCALE 1:24000

FIGURE 1
SITE LOCATION MAP
ARCO FACILITY NO. 629
13482 BROOKHURST STREET
GARDEN GROVE, CA.

PROJECT NO. AM00-622	DRAWN BY	
FILE NO. 5-607-67Q	PREPARED BY P. MANNS	
DATE 03 JUL 02	REV. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

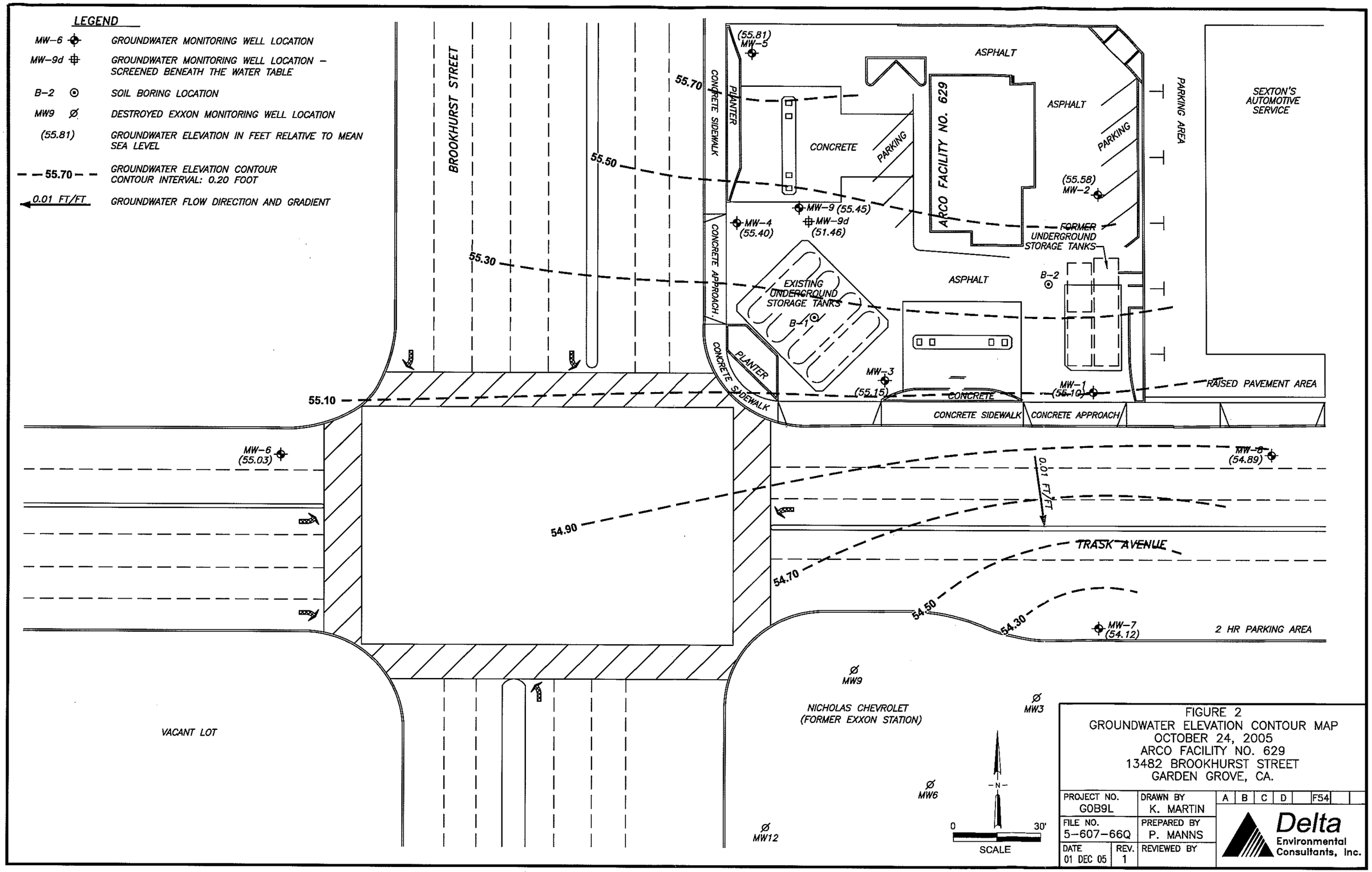


FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 24, 2005
ARCO FACILITY NO. 629
13482 BROOKHURST STREET
GARDEN GROVE, CA.

PROJECT NO. G0B9L	DRAWN BY K. MARTIN	A B C D F54
FILE NO. 5-607-66Q	PREPARED BY P. MANNS	Delta Environmental Consultants, Inc.
DATE 01 DEC 05 / REV. 1	REVIEWED BY	

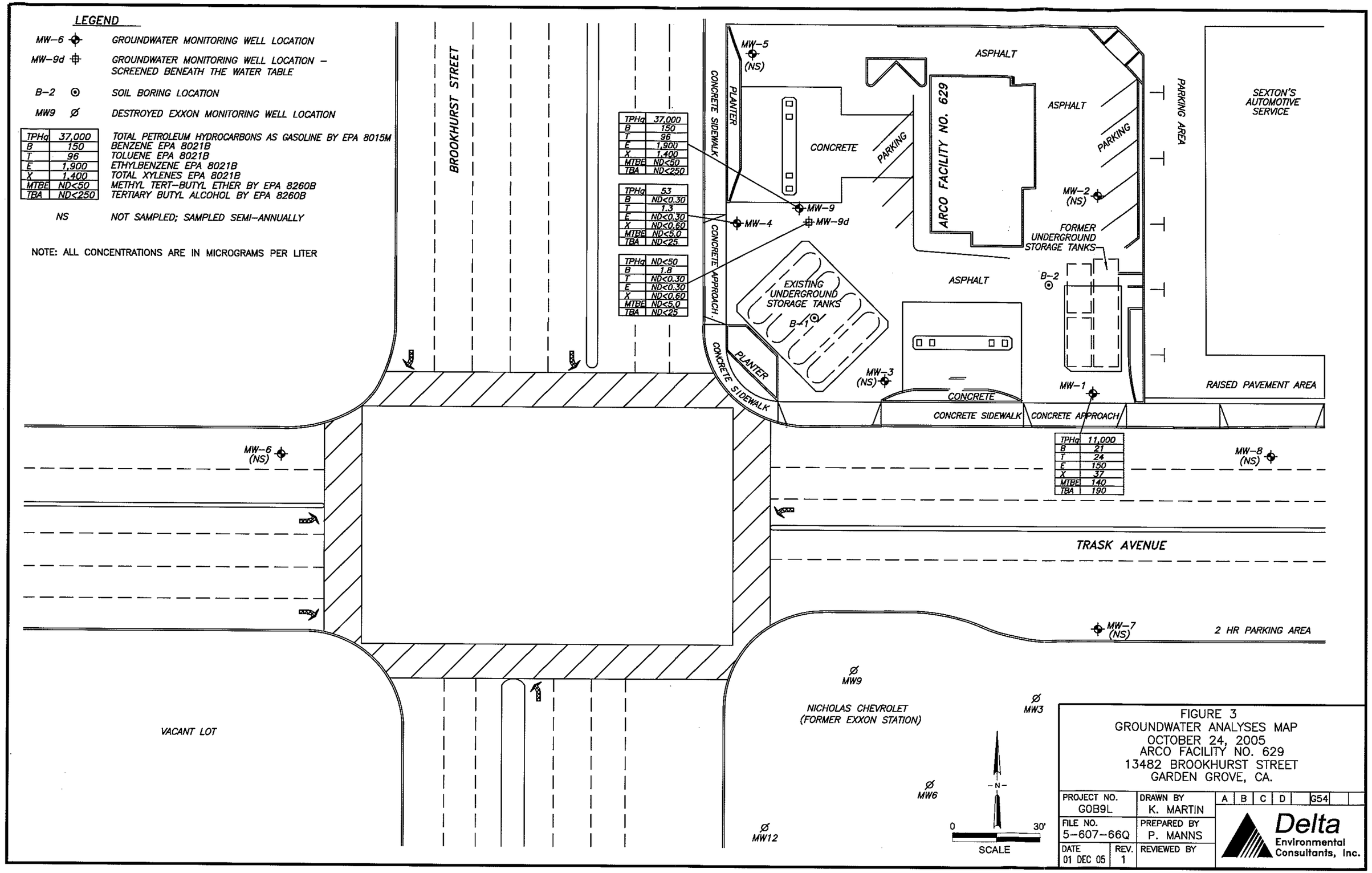
LEGEND

MW–6	GROUNDWATER MONITORING WELL LOCATION
MW–9d	GROUNDWATER MONITORING WELL LOCATION – SCREENED BENEATH THE WATER TABLE
B–2	SOIL BORING LOCATION
MW9	DESTROYED EXXON MONITORING WELL LOCATION

TPHg	37,000	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE BY EPA 8015M
B	150	BENZENE EPA 8021B
T	96	TOLUENE EPA 8021B
E	1,900	ETHYLBENZENE EPA 8021B
X	1,400	TOTAL XYLENES EPA 8021B
MTBE	ND<50	METHYL TERT–BUTYL ETHER BY EPA 8260B
TBA	ND<250	TERTIARY BUTYL ALCOHOL BY EPA 8260B

NS — NOT SAMPLED; SAMPLED SEMI–ANNUALLY

NOTE: ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER



TPHg	37,000
B	150
T	96
E	1,900
X	1,400
MTBE	ND<50
TBA	ND<250

TPHg	53
B	ND<0.30
T	1.3
E	ND<0.30
X	ND<0.60
MTBE	ND<5.0
TBA	ND<25

TPHg	ND<50
B	1.8
T	ND<0.30
E	ND<0.30
X	ND<0.60
MTBE	ND<5.0
TBA	ND<25

TPHg	11,000
B	21
T	24
E	150
X	37
MTBE	140
TBA	190

FIGURE 3
GROUNDWATER ANALYSES MAP
OCTOBER 24, 2005
ARCO FACILITY NO. 629
13482 BROOKHURST STREET
GARDEN GROVE, CA.

PROJECT NO. GOB9L	DRAWN BY K. MARTIN	A B C D G54
FILE NO. 5–607–66Q	PREPARED BY P. MANNS	Delta Environmental Consultants, Inc.
DATE 01 DEC 05 / REV. 1	REVIEWED BY	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-1	1/26/1996	69.84	NA	15.96	NA	53.88	
MW-1	6/25/1996	69.84	NA	16.00	NA	53.84	
MW-1	9/11/1996	69.84	NA	15.92	NA	53.92	
MW-1	12/11/1996	69.84	NA	16.07	NA	53.77	
MW-1	3/27/1997	69.84	NA	15.82	NA	54.02	
MW-1	6/4/1997	69.84	NA	15.60	NA	54.24	
MW-1	8/28/1997	69.84	NA	15.80	NA	54.04	
MW-1	11/20/1997	69.84	NA	15.74	NA	54.10	
MW-1	3/4/1998	69.84	NA	14.55	NA	55.29	
MW-1	6/4/1998	69.84	NA	14.06	NA	55.78	
MW-1	8/5/1998	69.84	NA	14.26	NA	55.58	
MW-1	11/11/1998	69.84	NA	14.46	NA	55.38	
MW-1	2/23/1999	69.84	NA	14.68	NA	55.16	
MW-1	6/15/1999	69.84	NA	14.77	NA	55.07	
MW-1	8/30/1999	69.84	NA	14.72	NA	55.12	
MW-1	11/11/1999	69.84	NA	14.54	NA	55.30	
MW-1	3/20/2000	69.84	NA	14.90	NA	54.94	
MW-1	6/19/2000	69.84	NA	15.05	NA	54.79	
MW-1	8/29/2000	69.73	NA	15.49	NA	54.24	
MW-1	12/18/2000	69.73	NA	15.81	NA	53.92	
MW-1	3/16/2001	69.73	NA	15.34	NA	54.39	
MW-1	6/8/2001	69.73	NA	15.20	NA	54.53	
MW-1	9/11/2001	69.73	NA	15.62	NA	54.11	
MW-1	12/14/2001	69.73	NA	15.73	NA	54.00	
MW-1	3/13/2002	69.73	NA	15.97	NA	53.76	
MW-1	6/5/2002	69.73	NA	16.09	NA	53.64	
MW-1	8/27/2002	69.73	NA	16.09	NA	53.64	
MW-1	11/19/2002	69.73	NA	16.02	NA	53.71	
MW-1	2/19/2003	69.73	NA	15.16	NA	54.57	
MW-1	5/21/2003	69.73	NA	15.60	NA	54.13	
MW-1	8/29/2003	69.73	NA	15.77	NA	53.96	
MW-1	11/14/2003	69.55	NA	15.88	NA	53.67	
MW-1	2/12/2004	69.55	NA	16.03	NA	53.52	
MW-1	5/13/2004	69.55	NA	16.01	NA	53.54	
MW-1	8/12/2004	69.55	NA	16.11	NA	53.44	
MW-1	11/4/2004	69.55	NA	15.92	NA	53.63	
MW-1	2/18/2005	69.55	NA	15.10	NA	54.45	
MW-1	4/26/2005	69.55	NA	14.16	NA	55.39	
MW-1	7/25/2005	69.55	NA	14.40	NA	55.15	
MW-1	10/24/2005	69.55	NA	14.45	NA	55.10	
MW-2	1/26/1996	70.97	NA	16.40	NA	54.57	
MW-2	6/25/1996	70.97	NA	16.35	NA	54.62	
MW-2	9/11/1996	70.97	NA	16.10	NA	54.87	
MW-2	12/11/1996	70.97	NA	16.48	NA	54.49	
MW-2	3/27/1997	70.97	NA	15.75	NA	55.22	
MW-2	6/4/1997	70.97	NA	15.92	NA	55.05	
MW-2	8/28/1997	70.97	NA	16.10	NA	54.87	
MW-2	11/20/1997	70.97	NA	16.10	NA	54.87	
MW-2	3/4/1998	70.97	NA	14.93	NA	56.04	
MW-2	6/4/1998	70.97	NA	14.58	NA	56.39	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-2	8/5/1998	70.97	NA	14.88	NA	56.09	
MW-2	11/11/1998	70.97	NA	15.18	NA	55.79	
MW-2	2/23/1999	70.97	NA	15.40	NA	55.57	
MW-2	6/15/1999	70.97	NA	15.55	NA	55.42	
MW-2	8/30/1999	70.97	NA	15.56	NA	55.41	
MW-2	11/11/1999	70.97	NA	15.46	NA	55.51	
MW-2	3/20/2000	70.97	NA	15.73	NA	55.24	
MW-2	6/19/2000	70.97	NA	15.86	NA	55.11	
MW-2	8/29/2000	70.91	NA	16.11	NA	54.80	
MW-2	12/18/2000	70.91	NA	16.43	NA	54.48	
MW-2	3/16/2001	70.91	NA	15.93	NA	54.98	
MW-2	6/8/2001	70.91	NA	15.87	NA	55.04	
MW-2	9/11/2001	70.91	NA	16.25	NA	54.66	
MW-2	12/14/2001	70.91	NA	16.44	NA	54.47	
MW-2	3/13/2002	70.91	NA	16.71	NA	54.20	
MW-2	6/5/2002	70.91	NA	16.98	NA	53.93	
MW-2	8/27/2002	70.91	NA	17.23	NA	53.68	
MW-2	11/19/2002	70.91	NA	17.13	NA	53.78	
MW-2	2/19/2003	70.91	NA	15.97	NA	54.94	
MW-2	5/21/2003	70.91	NA	16.26	NA	54.65	
MW-2	8/29/2003	70.91	NA	16.42	NA	54.49	
MW-2	11/14/2003	70.70	NA	16.57	NA	54.13	
MW-2	2/12/2004	70.70	NA	16.83	NA	53.87	
MW-2	5/13/2004	70.70	NA	16.77	NA	53.93	
MW-2	8/12/2004	70.70	NA	16.96	NA	53.74	
MW-2	11/4/2004	70.70	NA	16.67	NA	54.03	
MW-2	2/18/2005	70.70	NA	15.62	NA	55.08	
MW-2	4/26/2005	70.70	NA	14.68	NA	56.02	
MW-2	7/25/2005	70.70	NA	14.97	NA	55.73	
MW-2	10/24/2005	70.70	NA	15.12	NA	55.58	
MW-3	1/26/1996	70.24	NA	16.40	NA	53.84	
MW-3	6/25/1996	70.24	NA	16.35	NA	53.89	
MW-3	9/11/1996	70.24	NA	15.35	NA	54.89	
MW-3	12/11/1996	70.24	NA	16.30	NA	53.94	
MW-3	3/27/1997	70.24	NA	15.60	NA	54.64	
MW-3	6/4/1997	70.24	NA	15.67	NA	54.57	
MW-3	8/28/1997	70.24	NA	15.65	NA	54.59	
MW-3	11/20/1997	70.24	NA	15.35	NA	54.89	
MW-3	3/4/1998	70.24	NA	14.42	NA	55.82	
MW-3	6/4/1998	70.24	NA	14.30	NA	55.94	
MW-3	8/5/1998	70.24	NA	14.55	NA	55.69	
MW-3	11/11/1998	70.24	NA	14.72	NA	55.52	
MW-3	2/23/1999	70.24	NA	14.99	NA	55.25	
MW-3	6/15/1999	70.24	NA	15.11	NA	55.13	
MW-3	8/30/1999	70.24	NA	15.08	NA	55.16	
MW-3	11/11/1999	70.24	NA	14.86	NA	55.38	
MW-3	3/20/2000	70.24	NA	15.28	NA	54.96	
MW-3	6/19/2000	70.24	NA	15.43	NA	54.81	
MW-3	8/29/2000	70.15	NA	15.74	NA	54.41	
MW-3	12/18/2000	70.15	NA	16.08	NA	54.07	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-3	3/16/2001	70.15	NA	15.60	NA	54.55	
MW-3	6/8/2001	70.15	NA	15.58	NA	54.57	
MW-3	9/11/2001	70.15	NA	15.93	NA	54.22	
MW-3	12/14/2001	70.15	NA	16.09	NA	54.06	
MW-3	3/13/2002	70.15	NA	16.41	NA	53.74	
MW-3	6/5/2002	70.15	NA	16.61	NA	53.54	
MW-3	8/27/2002	70.15	NA	16.63	NA	53.52	
MW-3	11/19/2002	70.15	NA	16.11	NA	54.04	
MW-3	2/19/2003	70.15	NA	15.31	NA	54.84	
MW-3	5/21/2003	70.15	NA	16.00	NA	54.15	
MW-3	8/29/2003	70.15	NA	16.20	NA	53.95	
MW-3	11/14/2003	69.95	NA	16.31	NA	53.64	
MW-3	2/12/2004	69.95	NA	16.66	NA	53.29	
MW-3	5/13/2004	69.95	NA	16.63	NA	53.32	
MW-3	8/12/2004	69.95	NA	16.68	NA	53.27	
MW-3	11/4/2004	69.95	NA	16.25	NA	53.70	
MW-3	2/18/2005	69.95	NA	15.40	NA	54.55	
MW-3	4/26/2005	69.95	NA	14.55	NA	55.40	
MW-3	7/25/2005	69.95	NA	14.81	NA	55.14	
MW-3	10/24/2005	69.95	NA	14.80	NA	55.15	
MW-4	1/26/1996	70.21	NA	16.60	NA	53.61	
MW-4	6/25/1996	70.21	NA	15.81	NA	54.40	
MW-4	9/11/1996	70.21	NA	14.95	NA	55.26	
MW-4	12/11/1996	70.21	NA	15.91	NA	54.30	
MW-4	3/27/1997	70.21	NA	14.10	NA	56.11	
MW-4	6/4/1997	70.21	NA	15.20	NA	55.01	
MW-4	8/28/1997	70.21	NA	15.24	NA	54.97	
MW-4	11/20/1997	70.21	NA	15.04	NA	55.17	
MW-4	3/4/1998	70.21	NA	13.72	NA	56.49	
MW-4	6/4/1998	70.21	NA	13.91	NA	56.30	
MW-4	8/5/1998	70.21	NA	14.22	NA	55.99	
MW-4	11/11/1998	70.21	NA	14.40	NA	55.81	
MW-4	2/23/1999	70.21	NA	14.73	NA	55.48	
MW-4	6/15/1999	70.21	NA	14.91	NA	55.30	
MW-4	8/30/1999	70.21	NA	14.96	NA	55.25	
MW-4	11/11/1999	70.21	NA	14.85	NA	55.36	
MW-4	3/20/2000	70.21	NA	15.03	NA	55.18	
MW-4	6/19/2000	70.21	NA	15.20	NA	55.01	
MW-4	8/29/2000	70.15	NA	15.48	NA	54.67	
MW-4	12/18/2000	70.15	NA	15.83	NA	54.32	
MW-4	3/16/2001	70.15	NA	15.18	NA	54.97	
MW-4	6/8/2001	70.15	NA	15.28	NA	54.87	
MW-4	9/11/2001	70.15	NA	15.64	NA	54.51	
MW-4	12/14/2001	70.15	NA	15.81	NA	54.34	
MW-4	3/13/2002	70.15	NA	16.14	NA	54.01	
MW-4	6/5/2002	70.15	NA	16.34	NA	53.81	
MW-4	8/27/2002	70.15	NA	16.38	NA	53.77	
MW-4	11/19/2002	70.15	NA	15.76	NA	54.39	
MW-4	2/19/2003	70.15	NA	15.03	NA	55.12	
MW-4	5/21/2003	70.15	NA	15.69	NA	54.46	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-4	8/29/2003	70.15	NA	15.90	NA	54.25	
MW-4	11/14/2003	69.93	NA	16.05	NA	53.88	
MW-4	2/12/2004	69.93	NA	16.42	NA	53.51	
MW-4	5/13/2004	69.93	NA	16.38	NA	53.55	
MW-4	8/12/2004	69.93	NA	16.40	NA	53.53	
MW-4	11/4/2004	69.93	NA	15.85	NA	54.08	
MW-4	2/18/2005	69.93	NA	14.98	NA	54.95	
MW-4	4/26/2005	69.93	NA	14.18	NA	55.75	
MW-4	7/25/2005	69.93	NA	14.46	NA	55.47	
MW-4	10/24/2005	69.93	NA	14.53	NA	55.40	
MW-5	1/26/1996	70.10	NA	15.48	NA	54.62	
MW-5	6/25/1996	70.10	NA	15.26	NA	54.84	
MW-5	9/11/1996	70.10	NA	14.82	NA	55.28	
MW-5	12/11/1996	70.10	NA	15.45	NA	54.65	
MW-5	3/27/1997	70.10	NA	14.54	NA	55.56	
MW-5	6/4/1997	70.10	NA	14.70	NA	55.40	
MW-5	8/28/1997	70.10	NA	14.98	NA	55.12	
MW-5	11/20/1997	70.10	NA	14.80	NA	55.30	
MW-5	3/4/1998	70.10	NA	13.07	NA	57.03	
MW-5	6/4/1998	70.10	NA	13.25	NA	56.85	
MW-5	8/5/1998	70.10	NA	13.68	NA	56.42	
MW-5	11/11/1998	70.10	NA	13.95	NA	56.15	
MW-5	2/23/1999	70.10	NA	14.26	NA	55.84	
MW-5	6/15/1999	70.10	NA	14.49	NA	55.61	
MW-5	8/30/1999	70.10	NA	14.56	NA	55.54	
MW-5	11/11/1999	70.10	NA	14.53	NA	55.57	
MW-5	3/20/2000	70.10	NA	14.63	NA	55.47	
MW-5	6/19/2000	70.10	NA	14.79	NA	55.31	
MW-5	8/29/2000	70.04	NA	15.10	NA	54.94	
MW-5	12/18/2000	70.04	NA	15.48	NA	54.56	
MW-5	3/16/2001	70.04	NA	14.68	NA	55.36	
MW-5	6/8/2001	70.04	NA	14.76	NA	55.28	
MW-5	9/11/2001	70.04	NA	15.27	NA	54.77	
MW-5	12/14/2001	70.04	NA	15.47	NA	54.57	
MW-5	3/13/2002	70.04	NA	15.77	NA	54.27	
MW-5	6/5/2002	70.04	NA	15.95	NA	54.09	
MW-5	8/27/2002	70.04	NA	15.94	NA	54.10	
MW-5	11/19/2002	70.04	NA	15.76	NA	54.28	
MW-5	2/19/2003	70.04	NA	14.73	NA	55.31	
MW-5	5/21/2003	70.04	NA	15.22	NA	54.82	
MW-5	8/29/2003	70.04	NA	15.39	NA	54.65	
MW-5	11/14/2003	69.82	NA	15.59	NA	54.23	
MW-5	2/12/2004	69.82	NA	15.90	NA	53.92	
MW-5	5/13/2004	69.82	NA	15.83	NA	53.99	
MW-5	8/12/2004	69.82	NA	15.85	NA	53.97	
MW-5	11/4/2004	69.82	NA	15.44	NA	54.38	
MW-5	2/18/2005	69.82	NA	14.34	NA	55.48	
MW-5	4/26/2005	69.82	NA	13.48	NA	56.34	
MW-5	7/25/2005	69.82	NA	13.82	NA	56.00	
MW-5	10/24/2005	69.82	NA	14.01	NA	55.81	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-6	3/27/1997	68.98	NA	14.60	NA	54.38	
MW-6	6/4/1997	68.98	NA	16.22	NA	52.76	
MW-6	8/28/1997	68.98	NA	15.05	NA	53.93	
MW-6	11/20/1997	68.98	NA	15.14	NA	53.84	
MW-6	3/4/1998	68.98	NA	12.48	NA	56.50	
MW-6	6/4/1998	68.98	NA	13.12	NA	55.86	
MW-6	8/5/1998	68.98	NA	13.40	NA	55.58	
MW-6	11/11/1998	68.98	NA	13.37	NA	55.61	
MW-6	2/23/1999	68.98	NA	13.95	NA	55.03	
MW-6	6/15/1999	68.98	NA	14.16	NA	54.82	
MW-6	8/30/1999	68.98	NA	14.35	NA	54.63	
MW-6	11/11/1999	68.98	NA	14.38	NA	54.60	
MW-6	3/20/2000	68.98	NA	14.27	NA	54.71	
MW-6	6/19/2000	68.98	NA	14.58	NA	54.40	
MW-6	8/29/2000	68.94	NA	14.91	NA	54.03	
MW-6	12/18/2000	68.94	NA	NA	NA	NA	Not gauged; unable to obtain encroachment permit
MW-6	3/16/2001	68.94	NA	14.26	NA	54.68	
MW-6	6/8/2001	68.94	NA	14.75	NA	54.19	
MW-6	9/11/2001	68.94	NA	15.22	NA	53.72	
MW-6	12/14/2001	68.94	NA	NA	NA	NA	Not gauged; City of Garden Grove would not allow access to street
MW-6	3/13/2002	68.94	NA	15.68	NA	53.26	
MW-6	6/5/2002	68.94	NA	15.99	NA	52.95	
MW-6	8/27/2002	68.94	NA	15.79	NA	53.15	
MW-6	11/19/2002	68.94	NA	15.72	NA	53.22	
MW-6	2/19/2003	68.94	NA	14.53	NA	54.41	
MW-6	5/21/2003	68.94	NA	14.92	NA	54.02	
MW-6	8/29/2003	68.94	NA	15.20	NA	53.74	
MW-6	11/14/2003	68.76	NA	15.45	NA	53.31	
MW-6	2/12/2004	68.76	NA	15.88	NA	52.88	
MW-6	5/13/2004	68.76	NA	15.77	NA	52.99	
MW-6	8/12/2004	68.76	NA	15.70	NA	53.06	
MW-6	11/4/2004	68.76	NA	14.44	NA	54.32	
MW-6	2/18/2005	68.76	NA	14.07	NA	54.69	
MW-6	4/26/2005	68.76	NA	13.54	NA	55.22	
MW-6	7/25/2005	68.76	NA	13.74	NA	55.02	
MW-6	10/24/2005	68.76	NA	13.73	NA	55.03	
MW-7	8/29/2000	68.40	NA	14.45	NA	53.95	
MW-7	12/18/2000	68.40	NA	14.80	NA	53.60	
MW-7	3/16/2001	68.40	NA	14.86	NA	53.54	
MW-7	9/11/2001	68.40	NA	14.90	NA	53.50	
MW-7	12/14/2001	68.40	NA	15.09	NA	53.31	
MW-7	3/13/2002	68.40	NA	15.29	NA	53.11	
MW-7	6/5/2002	68.40	NA	15.35	NA	53.05	
MW-7	8/27/2002	68.40	NA	15.42	NA	52.98	
MW-7	11/19/2002	68.40	NA	15.47	NA	52.93	
MW-7	2/19/2003	68.40	NA	15.03	NA	53.37	
MW-7	5/21/2003	68.40	NA	15.15	NA	53.25	
MW-7	8/29/2003	68.40	NA	15.32	NA	53.08	
MW-7	11/14/2003	68.15	NA	15.40	NA	52.75	
MW-7	2/12/2004	68.15	NA	15.59	NA	52.56	

TABLE 1
HISTORICAL GROUNDWATER GAUGING DATA
ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments
MW-7	5/13/2004	68.15	NA	15.61	NA	52.54	
MW-7	8/12/2004	68.15	NA	15.70	NA	52.45	
MW-7	11/4/2004	68.15	NA	15.68	NA	52.47	
MW-7	2/18/2005	68.15	NA	15.15	NA	53.00	
MW-7	4/26/2005	68.15	NA	14.32	NA	53.83	
MW-7	7/25/2005	68.15	NA	14.15	NA	54.00	
MW-7	10/24/2005	68.15	NA	14.03	NA	54.12	
MW-8	8/29/2000	70.91	NA	14.58	NA	56.33	
MW-8	12/18/2000	70.91	NA	NA	NA	NA	Not gauged; unable to obtain encroachment permit
MW-8	3/16/2001	70.91	NA	14.71	NA	56.20	
MW-8	6/8/2001	70.91	NA	14.54	NA	56.37	
MW-8	9/11/2001	70.91	NA	14.83	NA	56.08	
MW-8	12/14/2001	70.91	NA	NA	NA	NA	Not gauged; City of Garden Grove would not allow access to street
MW-8	3/13/2002	70.91	NA	15.19	NA	55.72	
MW-8	6/5/2002	70.91	NA	15.30	NA	55.61	
MW-8	8/27/2002	70.91	NA	15.34	NA	55.57	
MW-8	11/19/2002	70.91	NA	15.35	NA	55.56	
MW-8	2/19/2003	70.91	NA	14.64	NA	56.27	
MW-8	5/21/2003	70.91	NA	14.89	NA	56.02	
MW-8	8/29/2003	70.91	NA	15.05	NA	55.86	
MW-8	11/14/2003	68.67	NA	15.17	NA	53.50	
MW-8	2/12/2004	68.67	NA	15.36	NA	53.31	
MW-8	5/13/2004	68.67	NA	15.37	NA	53.30	
MW-8	8/12/2004	68.67	NA	15.47	NA	53.20	
MW-8	11/4/2004	68.67	NA	15.37	NA	53.30	
MW-8	2/18/2005	68.67	NA	14.52	NA	54.15	
MW-8	4/26/2005	68.67	NA	13.55	NA	55.12	
MW-8	7/25/2005	68.67	NA	13.71	NA	54.96	
MW-8	10/24/2005	68.67	NA	13.78	NA	54.89	
MW-9	11/14/2003	70.38	NA	16.43	NA	53.95	
MW-9	2/12/2004	70.38	NA	16.76	NA	53.62	
MW-9	5/13/2004	70.38	NA	16.72	NA	53.66	
MW-9	8/12/2004	70.38	NA	16.73	NA	53.65	
MW-9	11/4/2004	70.38	NA	16.31	NA	54.07	
MW-9	2/18/2005	70.38	NA	15.38	NA	55.00	
MW-9	4/26/2005	70.38	NA	14.58	NA	55.80	
MW-9	7/25/2005	70.38	NA	14.86	NA	55.52	
MW-9	10/24/2005	70.38	NA	14.93	NA	55.45	
MW-9d	3/18/2004	70.39	NA	21.80	NA	48.59	
MW-9d	5/13/2004	70.39	NA	22.25	NA	48.14	
MW-9d	8/12/2004	70.39	NA	22.84	NA	47.55	
MW-9d	11/4/2004	70.39	NA	22.54	NA	47.85	
MW-9d	2/18/2005	70.39	NA	21.43	NA	48.96	
MW-9d	4/26/2005	70.39	NA	19.62	NA	50.77	
MW-9d	7/25/2005	70.39	NA	19.26	NA	51.13	
MW-9d	10/24/2005	70.39	NA	18.93	NA	51.46	

TABLE 1

HISTORICAL GROUNDWATER GAUGING DATA

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Measured	TOC Elevation (feet msl)	Depth to LPH (feet)	Depth to Water (feet)	LPH Thickness (feet)	Water Elevation (feet msl)	Comments

Notes: TOC = Top of casing (relative to mean sea level, resurveyed by Azimuth Group on 09/26/00, elevation = 69.51 feet, Benchmark No. GG-L7-93)

All wells resurveyed on 10/31/03 by Dulin and Boynton relative to Orange County BM#1G-159-99 (1995 adj elev=60.595 feet), horizontal datum NAD83, vertical datum NGVD29.

LPH = Liquid-phase hydrocarbons

Note: Water Elevation, if LPH is present, is corrected according to the following formula, (TOC elevation - depth to water) + (0.75 x LPH thickness).

NA = Not applicable

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-1	10/3/1995	22000	3500	83	1200	1400	NA	NA	NA	NA	NA	NA	NA	
MW-1	1/26/1996	8300	590	ND<15	1100	48	NA	NA	NA	NA	NA	NA	NA	
MW-1	6/25/1996	5100	440	ND<6.0	560	26	5500	NA	NA	NA	NA	NA	NA	
MW-1	9/11/1996	6200	1500	26	1400	140	3000	NA	NA	NA	NA	NA	NA	
MW-1	12/11/1996	7700	830	ND<30	820	75	5700	NA	NA	NA	NA	NA	NA	
MW-1	3/27/1997	10000	1200	ND<60	1300	200	10000	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	6/4/1997	11000	870	ND<15	1800	100	2300	2500	NA	NA	NA	NA	NA	No purge sampling
MW-1	8/28/1997	12000	1400	15	2300	240	3300	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	11/20/1997	9700	800	ND<30	2000	170	1300	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	3/4/1998	7400	500	ND<6.0	86	17	2300	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	6/4/1998	30000	2000	960	2300	5800	1200	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	8/5/1998	27000	1600	90	2700	7200	ND<1000	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	11/11/1998	22000	950	36	2500	3500	1800	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	2/23/1999	19000	410	290	2100	2200	1200	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	6/15/1999	27000	380	550	2000	8500	ND<2000	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	8/30/1999	13000	100	ND<20	710	890	NA	470	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-1	11/11/1999	8300	52	ND<3.0	310	120	NA	310	NA	NA	NA	NA	NA	No purge sampling
MW-1	3/20/2000	7500	77	18	590	990	450	NA	NA	NA	NA	NA	NA	No purge sampling
MW-1	6/19/2000	17000	180	99	1500	4400	ND<1000	690	NA	NA	NA	NA	NA	No purge sampling
MW-1	8/29/2000	4000	100	ND<10	270	ND<10	NA	710	ND<25	ND<25	ND<25	ND<250	NA	No purge sampling
MW-1	12/18/2000	2600	35	ND<3.0	110	ND<6.0	NA	200	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-1	3/16/2001	1300	43	8.3	5.5	ND<6.0	NA	570	ND<25	ND<25	ND<25	ND<250	NA	No purge sampling
MW-1	6/8/2001	5600	210	4.6	570	15	NA	900	ND<25	ND<25	ND<25	840	NA	No purge sampling
MW-1	9/11/2001	1600	18	9.0	4.9	ND<6.0	NA	160	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-1	12/14/2001	1300	18	11	3.9	ND<6.0	NA	260	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-1	3/13/2002	860	8.5	1.4	0.74	1.9	NA	110	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-1	6/5/2002	630	15	1.6	ND<0.30	1.2	NA	72	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-1	8/27/2002	740	4.1	15	0.87	6.2	NA	160	NA	NA	NA	NA	NA	No purge sampling
MW-1	11/19/2002	380	1.9	1.5	1.1	2.4	NA	150	NA	NA	NA	NA	NA	No purge sampling
MW-1	2/19/2003	4400	9.0	6.0	540	ND<12	NA	76	NA	NA	NA	NA	NA	No purge sampling
MW-1	5/21/2003	1400	5.5	8.9	ND<1.5	ND<3.0	NA	100	ND<25	ND<25	ND<25	ND<120	ND<750	No purge sampling
MW-1	8/29/2003	670	5.0	1.2	ND<0.60	1.4	NA	43	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-1	11/14/2003	610	2.2	16	2.0	3.2	NA	45	ND<5.0	ND<5.0	ND<5.0	26	ND<150	No purge sampling
MW-1	2/12/2004	390	1.3	14	1.6	5.7	NA	22	ND<5.0	ND<5.0	ND<5.0	33	ND<150	No purge sampling
MW-1	5/13/2004	420	0.67	8.5	0.73	2.9	NA	18	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-1	8/12/2004	300	ND<0.30	7.2	0.54	1.9	NA	14	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-1	11/4/2004	270	2.1	0.58	0.63	1.3	NA	22	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-1	2/18/2005	5200	27	ND<15	520	46	NA	260	ND<50	ND<50	ND<50	510	ND<1500	No purge sampling
MW-1	4/26/2005	15000	86	ND<30	2000	75	NA	95	ND<50	ND<50	ND<50	190	ND<1500	No purge sampling
MW-1	7/25/2005	7300	51	55	440	150	NA	89	ND<10	ND<10	ND<10	50	ND<300	No purge sampling
MW-1	10/24/2005	11000	21	24	150	37	NA	140	ND<20	ND<20	ND<20	190	ND<600	No purge sampling
MW-2	1/26/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
MW-2	6/25/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-2	9/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-2	12/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-2	3/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	6/4/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	8/28/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	11/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	3/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	6/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	8/5/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	11/11/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	2/23/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	6/15/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	8/30/1999	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-2	11/11/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
MW-2	3/20/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	6/19/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-2	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	12/18/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	12/14/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-2	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-2	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	2.7	NA	NA	NA	NA	NA	No purge sampling
MW-2	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	8/29/2003	ND<50	0.44	0.45	0.36	1.1	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-2	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-2	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-2	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-2	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-2	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-2	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	1/26/1996	3600	ND<15	ND<15	ND<15	ND<30	NA	NA	NA	NA	NA	NA	NA	
MW-3	6/25/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	770	NA	NA	NA	NA	NA	NA	
MW-3	9/11/1996	220	1.3	ND<0.30	7.7	ND<0.60	16	NA	NA	NA	NA	NA	NA	
MW-3	12/11/1996	63	ND<0.30	ND<0.30	ND<0.30	ND<0.60	1500	NA	NA	NA	NA	NA	NA	
MW-3	3/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	6/4/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	25	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	8/28/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	11/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	3/4/1998	210	21	1.1	0.59	82	360	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	6/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	15	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	8/5/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	11/11/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	2/23/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	6/15/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	8/30/1999	ND<50	ND<10	ND<10	ND<10	ND<20	NA	370	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-3	11/11/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
MW-3	3/20/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-3	6/19/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-3	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	12/18/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	12/14/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-3	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	5.9	ND<5.0	ND<5.0	ND<5.0	100	NA	No purge sampling
MW-3	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-3	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-3	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-3	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-3	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-3	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-3	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-3	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-3	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-4	1/26/1996	81000	5700	22000	4800	21000	NA	NA	NA	NA	NA	NA	NA	
MW-4	6/25/1996	11000	990	1100	490	1200	4800	NA	NA	NA	NA	NA	NA	
MW-4	9/11/1996	4500	35	8.4	510	71	190	NA	NA	NA	NA	NA	NA	
MW-4	12/11/1996	25000	470	650	2500	4500	2800	NA	NA	NA	NA	NA	NA	
MW-4	3/27/1997	46000	310	280	5900	14000	520	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	6/4/1997	43000	350	810	5400	9700	430	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	8/28/1997	5800	13	8.8	710	150	ND<40	NA	NA	NA	NA	NA	NA	No purge sampling

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-4	11/20/1997	1600	8.4	1.9	73	2.1	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	3/4/1998	340	7.6	0.43	13	0.78	78	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	6/4/1998	280	8.3	0.41	0.54	ND<0.60	13	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	8/5/1998	290	2.6	9.3	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	11/11/1998	200	0.53	9.7	ND<0.30	0.85	71	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	2/23/1999	220	2.0	0.93	ND<0.30	ND<0.60	120	NA	NA	NA	NA	NA	NA	No purge sampling
MW-4	6/15/1999	7500	65	ND<6.0	840	730	290	240	NA	NA	NA	NA	NA	No purge sampling
MW-4	8/30/1999	11000	30	ND<8.0	590	824	NA	140	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-4	11/11/1999	31000	95	100	3800	11000	NA	110	NA	NA	NA	NA	NA	No purge sampling
MW-4	3/20/2000	23000	470	260	3500	9700	ND<1000	850	NA	NA	NA	NA	NA	No purge sampling
MW-4	6/19/2000	1600	8.2	ND<0.60	15	2.7	81	200	NA	NA	NA	NA	NA	No purge sampling
MW-4	8/29/2000	5700	15	ND<2.0	82	17	NA	59	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-4	12/18/2000	2800	23	ND<3.0	26	14	NA	51	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-4	3/16/2001	950	10	22	2.1	ND<3.0	NA	61	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-4	6/8/2001	1900	18	11	24	7.2	NA	190	ND<20	ND<20	ND<20	ND<200	NA	No purge sampling
MW-4	9/11/2001	7100	79	17	87	54	NA	380	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-4	12/14/2001	4000	31	13	72	ND<6.0	NA	400	ND<10	ND<10	ND<10	ND<100	NA	No purge sampling
MW-4	3/13/2002	13000	60	44	2000	2800	NA	640	ND<50	ND<50	ND<50	ND<500	NA	No purge sampling
MW-4	6/5/2002	26000	270	350	3100	5700	NA	190	ND<50	ND<50	ND<50	ND<500	NA	No purge sampling
MW-4	8/27/2002	20000	85	92	2900	4800	NA	170	NA	NA	NA	NA	NA	No purge sampling
MW-4	11/19/2002	14000	15	22	1700	3300	NA	30	NA	NA	NA	NA	NA	No purge sampling
MW-4	2/19/2003	380	0.63	8.0	11	4.6	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-4	5/21/2003	540	1.2	14	1.3	3.6	NA	96	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	8/29/2003	190	0.88	7.0	0.33	1.0	NA	130	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	11/14/2003	160	0.53	10	ND<0.30	1.7	NA	230	ND<25	ND<25	ND<25	ND<120	ND<750	No purge sampling
MW-4	2/12/2004	200	7.1	18	1.8	3.5	NA	6.1	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	5/13/2004	180	0.61	5.6	ND<0.30	0.75	NA	5.1	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	8/12/2004	170	ND<0.30	8.2	ND<0.30	0.98	NA	6.9	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	11/4/2004	82	0.36	ND<0.30	ND<0.30	ND<0.60	NA	9.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	2/18/2005	130	ND<0.30	4.7	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	4/26/2005	85	ND<0.30	2.0	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	No purge sampling
MW-4	7/25/2005	ND<50	ND<0.30	1.2	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-4	10/24/2005	53	ND<0.30	1.3	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	1/26/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
MW-5	6/25/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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13482 Brookhurst Street
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Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-5	9/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-5	12/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-5	3/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	6/4/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	8/28/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	11/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	3/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	6/4/1998	ND<50	ND<0.30	0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	8/5/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	11/11/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	2/23/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	6/15/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	15	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	8/30/1999	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-5	11/11/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
MW-5	3/20/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	6/19/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-5	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	12/18/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	12/14/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-5	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-5	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	2/19/2003	ND<50	ND<0.30	0.33	ND<0.30	ND<0.60	NA	5.7	NA	NA	NA	NA	NA	No purge sampling
MW-5	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	38	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	15	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-5	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-5	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-5	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	3/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-6	6/4/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
MW-6	8/28/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	11/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	3/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	6/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	8/5/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	11/11/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	2/23/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	6/15/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	8/30/1999	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling; BTEX & MTBE by 8260B
MW-6	11/11/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	No purge sampling
MW-6	3/20/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	6/19/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	No purge sampling
MW-6	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-6	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; unable to obtain encroachment permit
MW-6	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-6	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-6	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-6	12/14/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; City of Garden Grove would not allow access to street
MW-6	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-6	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-6	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-6	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-6	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-6	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-6	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-6	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-6	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-6	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-6	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	64	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	BTEX by 8260B
MW-7	12/18/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	12/14/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-7	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	44	NA	NA	NA	NA	NA	No purge sampling
MW-7	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	4.7	NA	NA	NA	NA	NA	No purge sampling
MW-7	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	71	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-7	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-7	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-7	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	6.3	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-7	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-7	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-7	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-7	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	BTEX by 8260B
MW-8	12/18/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; unable to obtain encroachment permit
MW-8	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-8	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-8	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-8	12/14/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; City of Garden Grove would not allow access to street
MW-8	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	No purge sampling
MW-8	6/5/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	No purge sampling
MW-8	11/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	120	NA	NA	NA	NA	NA	No purge sampling
MW-8	5/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-8	11/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-8	5/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-8	11/4/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-8	4/26/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-8	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-8	10/24/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sampled semi-annually (1st and 3rd quarters)
MW-9	11/14/2003	43,000	260	1,200	4,300	7,800	NA	ND<50	ND<50	ND<50	ND<50	ND<250	ND<1500	No purge sampling
MW-9	2/12/2004	34000	190	620	3800	5600	NA	ND<50	ND<50	ND<50	ND<50	ND<250	ND<1500	No purge sampling
MW-9	5/13/2004	33000	230	520	3600	4500	NA	41	ND<20	ND<20	ND<20	ND<100	ND<600	No purge sampling
MW-9	8/12/2004	30000	120	200	3500	4100	NA	39	ND<20	ND<20	ND<20	ND<100	ND<600	No purge sampling
MW-9	11/4/2004	25000	150	140	3500	4500	NA	27	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-9	2/18/2005	36000	300	200	2600	2700	NA	ND<50	ND<50	ND<50	ND<50	ND<250	ND<1500	No purge sampling
MW-9	4/26/2005	36000	300	150	2500	1800	NA	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1500	No purge sampling
MW-9	7/25/2005	23000	210	120	2600	2400	NA	38	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	No purge sampling
MW-9	10/24/2005	37000	150	96	1900	1400	NA	ND<50	ND<50	ND<50	ND<50	ND<250	ND<1500	No purge sampling
MW-9d	3/18/2004	3000	130	320	120	660	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	Peristaltic pump sampling
MW-9d	5/13/2004	130	8.6	1.8	7.5	5.4	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
MW-9d	8/12/2004	ND<50	3.6	0.42	3.3	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
MW-9d	11/4/2004	ND<50	2.4	ND<0.30	1.5	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
MW-9d	2/18/2005	ND<50	1.7	ND<0.30	0.56	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
MW-9d	4/26/2005	ND<50	2.2	ND<0.30	0.37	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	Peristaltic pump sampling
MW-9d	7/25/2005	ND<50	2.2	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
MW-9d	10/24/2005	ND<50	1.8	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	Peristaltic pump sampling
Trip Blank	10/3/1995	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	1/26/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	NA	NA	NA	NA	NA	NA	
Trip Blank	6/25/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	9/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	12/11/1996	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	3/27/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	6/4/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	8/28/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	11/20/1997	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	3/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	6/4/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	8/5/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	11/11/1998	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	2/23/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	6/15/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	8/30/1999	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	NA	NA	NA	NA	NA	BTEX & MTBE analyzed by 8260B

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

ARCO Facility No. 0629
13482 Brookhurst Street
Garden Grove, CA

Well	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	MTBE 8020/ 8021B (µg/L)	MTBE 8240/ 8260/ 8260B (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
Trip Blank	11/11/1999	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	NA	NA	NA	NA	NA	
Trip Blank	3/20/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	6/19/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<10	NA	NA	NA	NA	NA	NA	
Trip Blank	8/29/2000	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	12/18/2000	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	3/16/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	6/8/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	9/11/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	12/14/2001	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	3/13/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	6/5/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
Trip Blank	8/27/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	
Trip Blank	11/19/2002	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	
Trip Blank	2/19/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<1.0	NA	NA	NA	NA	NA	
Trip Blank	5/21/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	8/29/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	11/14/2003	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	2/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	3/18/2004	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	5/13/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	8/12/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	11/4/2004	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	2/18/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	4/26/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150	
Trip Blank	7/25/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	
Trip Blank	10/24/2005	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25	ND<150	

Notes: µg/L = Micrograms per liter
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butanol
NA = Not analyzed
ND<number = Not detected at or above stated laboratory reporting limit

ATTACHMENT A

Sampling Information Sheets

Site	Well ID	Date	Depth to Product	Depth to Water	Comments	Total Well Depth
629	**MW-3**	10/24/05	NP	14.80		-
629	**MW-2**	10/24/05	NP	15.12		-
629	**MW-5**	10/24/05	NP	14.01		-
629	**MW-6**	10/24/05	NP	13.73		-
629	**MW-7**	10/24/05	NP	14.03		-
629	**MW-8**	10/24/05	NP	13.78		-
629	**MW-9D**	10/24/05	NP	18.93		42.55
629	**MW-4**	10/24/05	NP	14.53		-
629	**MW-1**	10/24/05	NP	14.45		-
629	**MW-9**	10/24/05	NP	14.93		-

WELL ID:	MW-3	MW-2	MW-5	MW-6	MW-7	MW-8	MW-9D	MW-4	MW-1	MW-9
Traffic Control level (0,1,2,3,4,N)	3	3	3	4	4	4	3	3	3	3
Traffic control set up at well (start time):										
Remove well cover & accumulated water:										
Well diameter (in):	4	4	4	4	4	4	4	4	4	4
Surface seal (G/P) (tap G)	G	G	G	G	G	G	G	G	G	G
Concrete seal (G/P) (tap G)	G	G	G	G	G	G	G	G	G	G
Pad secure (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Gasket (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Lock (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Expanding cap (Y/N) (tap Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Time gauged:	7:34	7:40	7:46	7:55	8:03	8:11	8:21	8:33	8:45	8:57
Depth to product (ft) (tap NP)	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Depth to water (ft):	14.80	15.12	14.01	13.73	14.03	13.78	18.93	14.53	14.45	14.93
Depth to bottom (ft):	-	-	-	-	-	-	42.55	-	-	-
Product/sheen on probe or in bailer	N	N	N	N	N	N	N	N	N	N
Product sample name										
Appearance:										
DO (mg/L):										
Well cover secured (time):										
Traffic control removed (end time):										
Wellhead parts replaced (Y/N)?	N	N	N	N	N	N	N	N	N	N
Bolts (no. replaced):										
Lid:										
Lock:										
Locking Cap 4"										
Locking Cap 2" (ENTER):										
C - car, N - not found, S - snow, O - other										

Subjective Wellhead Evaluation Form

Site number (s/s): 629

Project number: G0B9L

Location (City, State): Garden Grove, CA

Recorded by: J. Velasquez

Delta Environmental Consultants, Inc.

27141 Aliso Creek Road, Suite 270

Aliso Viejo, CA 92656

(800) 477-7411

gwsfof 6 COC 9-16-05 CA.xls

WELL ID:	MW-9D	A141 - Low flow purge sampling
SAMPLE ID:	MW-9D	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Casing volume (L):	58.4	
Purged by Peri, Subm?:	Peri	other:
Measured in 5 gal pail, Grad cyl?:	Grad	other:
Purge time (from):	9:00:05	

Total Volume purged (mL):	Time measured	Interval flowrate (mL/min)	Depth to water (ft):	T(deg F)	ph	Cond (mS/cm)	DO (mg/L)	ORP	Turbidity
8000.00	9:10:10	793.39		62.80	6.94	1850.0			
16000.00	9:20:15	793.39		63.00	6.96	1890.0			
24000.00	9:30:18	794.70		63.10	6.99	1920.0			

Purge time (to):	9:30:26	30.35	Purge time (total min):
Volume purged (enter mL):	24000	790.77	Purge rate (mL/min):
Purged dry (Y/N)?	N	80% water level	Initial DTW
Pre-sampling depth to water (ft):		23.65	18.93
Sampled by Peri, Subm?:	Peri	other:	
Time / date sampled:	9:30	10/24/05	

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by Ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Purge water disposal:	vac truck		
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling Low Flow Purge Sheet **Delta Environmental Consultants, Inc.**

Site number (s/s): 629 27141 Aliso Creek Road, Suite 270

Project number: G0B9L Aliso Viejo, CA 92656

WELL ID:	MW-4	A140 - No purge sampling
SAMPLE ID:	MW-4	
Traffic control set up at well (start time):		
Traffic control set up (end time):		

Sampled by disposable bailer (Y/N)?	Y	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
Time / date sampled:	10/24/05 8:33	62.4	6.64	1740	0.81

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5
Sample color / clarity:	clear
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?	Y
Any conditions affecting sample quality (Y/N)?	N
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:	
describe:	

Groundwater Sampling No Purge Sheet

Site number (s/s):	629
Project number:	G0B9L
Address:	13482 Brookhurst St.
Location (City, State):	Garden Grove, CA

Delta Environmental Consultants, Inc.
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
(800) 477-7411
gwsfof 6 COC 9-16-05 CA.xls

WELL ID:	MW-1	A140 - No purge sampling
SAMPLE ID:	MW-1	
Traffic control set up at well (start time):		
Traffic control set up (end time):		

Sampled by disposable bailer (Y/N)?	Y	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
Time / date sampled:	10/24/05 8:45	63.1	6.7	1990	0.85

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5		
Sample color / clarity:	clear		
Duplicate sample number:			
Time collected:			
Samples cooled by ice (Y/N)?:	Y	other:	
Any conditions affecting sample quality (Y/N)?:	N	describe:	
Well cover secured (time):			
Traffic control removed (end time):			
Recorded by:	J. Velasquez		

Groundwater Sampling No Purge Sheet		**Delta Environmental Consultants, Inc.**
Site number (s/s):	629	27141 Aliso Creek Road, Suite 270
Project number:	G0B9L	Aliso Viejo, CA 92656
Address:	13482 Brookhurst St.	(800) 477-7411
Location (City, State):	Garden Grove, CA	gwsfof 6 COC 9-16-05 CA.xls

WELL ID:	MW-9	A140 - No purge sampling
SAMPLE ID:	MW-9	
Traffic control set up at well (start time):		
Traffic control set up (end time):		
Sampled by disposable bailer (Y/N)?	Y	
Time / date sampled:	10/24/05 8:57	

	T (deg F)	pH	Cond (mS/cm)	DO (mg/L)
	63.4	6.94	1720	0.87

Sampler container type	No of containers	Preserved by	At what pH	Filter type
40 ml VOA	5	HCl	<2	none

No of containers:	5
Sample color / clarity:	clear
Duplicate sample number:	
Time collected:	
Samples cooled by ice (Y/N)?:	Y
Any conditions affecting sample quality (Y/N)?:	N
Well cover secured (time):	
Traffic control removed (end time):	
Recorded by:	J. Velasquez

other:		
describe:		

Groundwater Sampling	**No Purge Sheet**	**Delta Environmental Consultants, Inc.**
Site number (s/s):	629	27141 Aliso Creek Road, Suite 270
Project number:	G0B9L	Aliso Viejo, CA 92656
Address:	13482 Brookhurst St.	(800) 477-7411
Location (City, State):	Garden Grove, CA	gwsfof 6 COC 9-16-05 CA.xls

ATTACHMENT B

Laboratory Report and Chain-of-Custody Documentation

Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
helps Sarah, CA 92656
Attention: Chris Ota

Project: ARCO 0629, Garden Grove

Sampled: 10/24/05
Received: 10/25/05
Issued: 11/06/05 10:32

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOJ1718-01	MW-9D	Water
IOJ1718-02	MW-4	Water
IOJ1718-03	MW-1	Water
IOJ1718-04	MW-9	Water
IOJ1718-05	Trip Blank	Water

Reviewed By:

Del Mar Analytical, Irvine
Pat Abe
Project Manager

Del Mar Analytical

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
helps Sarah, CA 92656
Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
Received: 10/25/05

VOLATILE FUEL HYDROCARBONS/BTEX (EPA 5030B/8015M/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1718-01 (MW-9D - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B/8021B	5K01043	50	ND	1	11/1/2005	11/1/2005	
Benzene	EPA 8015B/8021B	5K01043	0.30	**1.8**	1	11/1/2005	11/1/2005	
Toluene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Ethylbenzene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Total Xylenes	EPA 8015B/8021B	5K01043	0.60	ND	1	11/1/2005	11/1/2005	
Surrogate: 4-BFB (PID) (65-135%)				*90 %*				
Surrogate: 4-BFB (FID) (65-140%)				*125 %*				
Sample ID: IOJ1718-02 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B/8021B	5K01043	50	**53**	1	11/1/2005	11/1/2005	
Benzene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Toluene	EPA 8015B/8021B	5K01043	0.30	**1.3**	1	11/1/2005	11/1/2005	
Ethylbenzene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Total Xylenes	EPA 8015B/8021B	5K01043	0.60	ND	1	11/1/2005	11/1/2005	
Surrogate: 4-BFB (PID) (65-135%)				*74 %*				
Surrogate: 4-BFB (FID) (65-140%)				*127 %*				
Sample ID: IOJ1718-03 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B/8021B	5K01043	1000	**11000**	20	11/1/2005	11/1/2005	
Benzene	EPA 8015B/8021B	5K01043	6.0	**21**	20	11/1/2005	11/1/2005	
Toluene	EPA 8015B/8021B	5K01043	6.0	**24**	20	11/1/2005	11/1/2005	
Ethylbenzene	EPA 8015B/8021B	5K01043	6.0	**150**	20	11/1/2005	11/1/2005	
Total Xylenes	EPA 8015B/8021B	5K01043	12	**37**	20	11/1/2005	11/1/2005	
Surrogate: 4-BFB (PID) (65-135%)				*93 %*				
Surrogate: 4-BFB (FID) (65-140%)				*126 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
helps Sarah, CA 92656
Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
Received: 10/25/05

VOLATILE FUEL HYDROCARBONS/BTEX (EPA 5030B/8015M/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1718-04 (MW-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B/8021B	5K01043	2500	**37000**	50	11/1/2005	11/1/2005	
Benzene	EPA 8015B/8021B	5K01043	15	**150**	50	11/1/2005	11/1/2005	
Toluene	EPA 8015B/8021B	5K01043	15	**96**	50	11/1/2005	11/1/2005	
Ethylbenzene	EPA 8015B/8021B	5K01043	15	**1900**	50	11/1/2005	11/1/2005	
Total Xylenes	EPA 8015B/8021B	5K01043	30	**1400**	50	11/1/2005	11/1/2005	
Surrogate: 4-BFB (PID) (65-135%)				*88 %*				
Surrogate: 4-BFB (FID) (65-140%)				*122 %*				
Sample ID: IOJ1718-05 (Trip Blank - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B/8021B	5K01043	50	ND	1	11/1/2005	11/1/2005	
Benzene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Toluene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Ethylbenzene	EPA 8015B/8021B	5K01043	0.30	ND	1	11/1/2005	11/1/2005	
Total Xylenes	EPA 8015B/8021B	5K01043	0.60	ND	1	11/1/2005	11/1/2005	
Surrogate: 4-BFB (PID) (65-135%)				*94 %*				
Surrogate: 4-BFB (FID) (65-140%)				*114 %*				

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Del Mar Analytical

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helps Sarah, CA 92656
Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
Received: 10/25/05

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1718-01 (MW-9D - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Butanol (TBA)	EPA 8260B	5J31021	25	ND	1	10/31/2005	10/31/2005	
Ethanol	EPA 8260B	5J31021	150	ND	1	10/31/2005	10/31/2005	IO
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IOJ1718-02 (MW-4 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Butanol (TBA)	EPA 8260B	5J31021	25	ND	1	10/31/2005	10/31/2005	
Ethanol	EPA 8260B	5J31021	150	ND	1	10/31/2005	10/31/2005	IO
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IOJ1718-03 (MW-1 - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5K01004	20	**140**	4	11/1/2005	11/1/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5K01004	20	ND	4	11/1/2005	11/1/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5K01004	20	ND	4	11/1/2005	11/1/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5K01004	20	ND	4	11/1/2005	11/1/2005	
tert-Butanol (TBA)	EPA 8260B	5K01004	100	**190**	4	11/1/2005	11/1/2005	
Ethanol	EPA 8260B	5K01004	600	ND	4	11/1/2005	11/1/2005	IO
Surrogate: Dibromofluoromethane (80-120%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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Delta Env. Consultants - Aliso Viejo
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Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
Received: 10/25/05

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1718-04 (MW-9 - Water)								**BH**
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J31021	50	ND	10	10/31/2005	10/31/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J31021	50	ND	10	10/31/2005	10/31/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J31021	50	ND	10	10/31/2005	10/31/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J31021	50	ND	10	10/31/2005	10/31/2005	
tert-Butanol (TBA)	EPA 8260B	5J31021	250	ND	10	10/31/2005	10/31/2005	
Ethanol	EPA 8260B	5J31021	1500	ND	10	10/31/2005	10/31/2005	IO
Surrogate: Dibromofluoromethane (80-120%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IOJ1718-05 (Trip Blank - Water)								
Reporting Units: ug/l								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J31021	5.0	ND	1	10/31/2005	10/31/2005	
tert-Butanol (TBA)	EPA 8260B	5J31021	25	ND	1	10/31/2005	10/31/2005	
Ethanol	EPA 8260B	5J31021	150	ND	1	10/31/2005	10/31/2005	IO
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Sampled: 10/24/05
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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX (EPA 5030B/8015M/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K01043 Extracted: 11/01/05										
Blank Analyzed: 11/01/2005 (5K01043-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Total Xylenes	ND	0.60	ug/l							
Surrogate: 4-BFB (PID)	*9.44*		*ug/l*	*10.0*		*94*	*65-135*			
Surrogate: 4-BFB (FID)	*11.6*		*ug/l*	*10.0*		*116*	*65-140*			
LCS Analyzed: 11/01/2005 (5K01043-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	866	50	ug/l	800		108	65-140			
Surrogate: 4-BFB (FID)	*24.9*		*ug/l*	*30.0*		*83*	*65-140*			
LCS Analyzed: 11/01/2005 (5K01043-BS2)										
Benzene	19.7	0.30	ug/l	20.0		98	75-120			
Toluene	21.0	0.30	ug/l	20.0		105	80-120			
Ethylbenzene	21.5	0.30	ug/l	20.0		108	85-120			
Total Xylenes	63.9	0.60	ug/l	60.0		106	80-120			
Surrogate: 4-BFB (PID)	*10.1*		*ug/l*	*10.0*		*101*	*65-135*			
Matrix Spike Analyzed: 11/01/2005 (5K01043-MS1)					**Source: IOJ1426-33**					
Volatile Fuel Hydrocarbons (C6-C12)	403	50	ug/l	220	93	141	60-145			
Benzene	16.8	0.30	ug/l	20.0	0.12	83	60-130			
Toluene	18.6	0.30	ug/l	20.0	1.3	86	70-125			
Ethylbenzene	18.8	0.30	ug/l	20.0	ND	94	75-130			
Total Xylenes	55.0	0.60	ug/l	60.0	ND	92	70-125			
Surrogate: 4-BFB (PID)	*9.24*		*ug/l*	*10.0*		*92*	*65-135*			
Surrogate: 4-BFB (FID)	*12.8*		*ug/l*	*10.0*		*128*	*65-140*			

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VOLATILE FUEL HYDROCARBONS/BTEX (EPA 5030B/8015M/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K01043 Extracted: 11/01/05										
Matrix Spike Analyzed: 11/01/2005 (5K01043-MS2)					**Source: IOK0074-01**					
Volatile Fuel Hydrocarbons (C6-C12)	259	50	ug/l	220	ND	118	60-145			
Surrogate: 4-BFB (FID)	*11.8*		*ug/l*	*10.0*		*118*	*65-140*			
Matrix Spike Dup Analyzed: 11/01/2005 (5K01043-MSD1)					**Source: IOJ1426-33**					
Volatile Fuel Hydrocarbons (C6-C12)	395	50	ug/l	220	93	137	60-145	2	20	
Benzene	15.9	0.30	ug/l	20.0	0.12	79	60-130	6	20	
Toluene	17.4	0.30	ug/l	20.0	1.3	80	70-125	7	20	
Ethylbenzene	17.6	0.30	ug/l	20.0	ND	88	75-130	7	20	
Total Xylenes	50.9	0.60	ug/l	60.0	ND	85	70-125	8	20	
Surrogate: 4-BFB (PID)	*9.17*		*ug/l*	*10.0*		*92*	*65-135*			
Surrogate: 4-BFB (FID)	*13.3*		*ug/l*	*10.0*		*133*	*65-140*			
Matrix Spike Dup Analyzed: 11/01/2005 (5K01043-MSD2)					**Source: IOK0074-01**					
Volatile Fuel Hydrocarbons (C6-C12)	267	50	ug/l	220	ND	121	60-145	3	20	
Surrogate: 4-BFB (FID)	*11.9*		*ug/l*	*10.0*		*119*	*65-140*			

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Received: 10/25/05

METHOD BLANK/QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5J31021 Extracted: 10/31/05										
Blank Analyzed: 10/31/2005 (5J31021-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	ug/l							
tert-Butanol (TBA)	ND	25	ug/l							
Ethanol	ND	150	ug/l							
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 10/31/2005 (5J31021-BS1)										
Methyl-tert-butyl Ether (MTBE)	22.3	5.0	ug/l	25.0		89	55-140			
Di-isopropyl Ether (DIPE)	23.9	5.0	ug/l	25.0		96	60-135			
Ethyl tert-Butyl Ether (ETBE)	22.2	5.0	ug/l	25.0		89	60-135			
tert-Amyl Methyl Ether (TAME)	22.2	5.0	ug/l	25.0		89	60-135			
tert-Butanol (TBA)	149	25	ug/l	125		119	65-135			
Ethanol	326	150	ug/l	250		130	35-160			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*		*ug/l*	*25.0*		*92*	*80-120*			
Matrix Spike Analyzed: 10/31/2005 (5J31021-MS1)					**Source: IOJ1718-01**					
Methyl-tert-butyl Ether (MTBE)	28.2	5.0	ug/l	25.0	ND	113	50-150			
Di-isopropyl Ether (DIPE)	26.4	5.0	ug/l	25.0	ND	106	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.4	5.0	ug/l	25.0	ND	106	55-135			
tert-Amyl Methyl Ether (TAME)	27.6	5.0	ug/l	25.0	ND	110	55-140			
tert-Butanol (TBA)	131	25	ug/l	125	ND	105	60-145			
Ethanol	317	150	ug/l	250	ND	127	35-160			
Surrogate: Dibromofluoromethane	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			

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Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
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METHOD BLANK/QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5J31021 Extracted: 10/31/05										
Matrix Spike Dup Analyzed: 10/31/2005 (5J31021-MSD1)					**Source: IOJ1718-01**					
Methyl-tert-butyl Ether (MTBE)	27.8	5.0	ug/l	25.0	ND	111	50-150	1	25	
Di-isopropyl Ether (DIPE)	25.8	5.0	ug/l	25.0	ND	103	60-140	2	25	
Ethyl tert-Butyl Ether (ETBE)	25.3	5.0	ug/l	25.0	ND	101	55-135	4	25	
tert-Amyl Methyl Ether (TAME)	27.0	5.0	ug/l	25.0	ND	108	55-140	2	30	
tert-Butanol (TBA)	128	25	ug/l	125	ND	102	60-145	2	25	
Ethanol	325	150	ug/l	250	ND	130	35-160	2	30	
Surrogate: Dibromofluoromethane	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*23.9*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Batch: 5K01004 Extracted: 11/01/05										
Blank Analyzed: 11/01/2005 (5K01004-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	ug/l							
tert-Butanol (TBA)	ND	25	ug/l							
Ethanol	ND	150	ug/l							
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*92*	*80-120*			
LCS Analyzed: 11/01/2005 (5K01004-BS1)										
Methyl-tert-butyl Ether (MTBE)	27.8	5.0	ug/l	25.0		111	55-140			
Di-isopropyl Ether (DIPE)	28.9	5.0	ug/l	25.0		116	60-135			
Ethyl tert-Butyl Ether (ETBE)	27.9	5.0	ug/l	25.0		112	60-135			
tert-Amyl Methyl Ether (TAME)	28.9	5.0	ug/l	25.0		116	60-135			
tert-Butanol (TBA)	134	25	ug/l	125		107	65-135			
Ethanol	358	150	ug/l	250		143	35-160			
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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METHOD BLANK/QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K01004 Extracted: 11/01/05										
Matrix Spike Analyzed: 11/01/2005 (5K01004-MS1)					**Source: IOK0003-01**					
Methyl-tert-butyl Ether (MTBE)	25.4	5.0	ug/l	25.0	ND	102	50-150			
Di-isopropyl Ether (DIPE)	26.2	5.0	ug/l	25.0	ND	105	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.4	5.0	ug/l	25.0	ND	102	55-135			
tert-Amyl Methyl Ether (TAME)	26.4	5.0	ug/l	25.0	ND	106	55-140			
tert-Butanol (TBA)	149	25	ug/l	125	ND	119	60-145			
Ethanol	404	150	ug/l	250	ND	162	35-160			*LM,AY*
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 11/01/2005 (5K01004-MSD1)					**Source: IOK0003-01**					
Methyl-tert-butyl Ether (MTBE)	22.2	5.0	ug/l	25.0	ND	89	50-150	13	25	
Di-isopropyl Ether (DIPE)	22.9	5.0	ug/l	25.0	ND	92	60-140	13	25	
Ethyl tert-Butyl Ether (ETBE)	22.3	5.0	ug/l	25.0	ND	89	55-135	13	25	
tert-Amyl Methyl Ether (TAME)	23.2	5.0	ug/l	25.0	ND	93	55-140	13	30	
tert-Butanol (TBA)	131	25	ug/l	125	ND	105	60-145	13	25	
Ethanol	353	150	ug/l	250	ND	141	35-160	13	30	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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Del Mar Analytical

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Laguna Hills, CA 92656
Attention: Chris Ota

Project ID: ARCO 0629, Garden Grove

Report Number: IOJ1718

Sampled: 10/24/05
Received: 10/25/05

DATA QUALIFIERS AND DEFINITIONS

BH	Reporting limits raised due to high level of non-target analytes
IO	Contract limits originate from BP-GCLN Technical Requirements
LM,AY	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF Parlabel	Analyte	EDF Parlabel
Benzene	BZ	Ethylbenzene	EBZ
Toluene	BZME	Total Xylenes	XYLENES
Volatile Fuel Hydrocarbons (C6-C12)	GROC6C12		

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EDD	Water		
EPA 8015B/8021B	Water	X	X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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Pat Abe
Project Manager

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BP

Chain of Custody Record

On-site Time:	##	Temp:	59
Off-site Time:	##	Temp:	65
Sky Conditions:	cloudy		
Meteorological Events:	none		
Wind Speed and Direction:			

Project Name 629 Garden Grove, CA
BP BU/AR Region/Enfos Segment Remediation Management, WEST, Orange/Desert
State of Lead Regulatory Agency

YEAR 2005 Requested Due Date (mm/dd/yy) 10 Days

gwsfof 6 COC 9-16-05 CA.xls COC TRACKING No.

Lab Name:	Delmar Analytical	BP/AR Facility No.	629	Consultant/Contractor:	Delta Env. Consultants, Inc.
Lab Address:	17461 Derian Ave, Ste 100	BP/AR Facility Address	13482 Brookhurst St.	Address:	27141 Aliso Creek Road, Suite 270
	Irvine, CA 92614	Site Lat/Long	n/a		Aliso Viejo, CA 92656
Lab PM:	Pat Abe	California Global ID #	T0605901913	e-mail EDD to:	ckuhlmann@deltaenv.com
Tele/Fax:	949-261-1022	Enfos Project No.	G0B74-0013	Consultant/Contractor Project No.:	G0B9L
BP/AR PM Contact Name:	Darrell Fah	Provision or RCOP	P	Consultant/Contractor Tele/Fax:	949-860-0209
Address:	6 Centerpointe Drive	Phase/WBS	4	Consultant/Contractor PM:	Chris Ota
	La Palma, CA 90623	Subphase/Task	5	Invoice to:	Enfos
Tele/Fax:		Cost Element	27	Report Type and QC level:	Level 1

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: SOIL	Matrix: WATER	Matrix: AIR	Laboratory Tracking Number (T0/7/8)	No. of containers	Unpreserved	H2SO4	HNO3	HCl	Methanol	Ice	TPH-G 8015M	BTEX OXYS ETOH 8260B	BTEX 8021B	OXYS ETOH 8260	FULL SCAN 8260	Sample Point Lat/Long Comments
1	MW-9D	9:30	10/24/05		x			5				x		x	✓		x	x		
2	MW-4	8:33	10/24/05		x			5				x		x			x	x		
3	MW-1	8:45	10/24/05		x			5				x		x			x	x		
4	MW-9	8:57	10/24/05		x			5				x		x			x	x		
5	Trip Blank				x							x		x	✓		x	x		

10/25/05 [illegible]

Sampler's Name:	J. Velasquez	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Doulos	Doulos	10/25/05	13:35		10/25/05	13:50
Shipment Date:							
Shipment Method:							
Shipment Tracking No:							

Special Instructions: MTBE and TBA for lowest possible detection limits

Custody seals in place (circle one) Y N/A Temp Blank (circle one) Y N Cooler Temperature on Receipt 5 F/C (circle one) Trip Blank? Y / N (circle one)

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