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290 Conejo Ridge Ave., Suite 200
Thousand Oaks, CA 91361
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ATLANTIC RICHFIELD COMPANY QUARTERLY REPORT
Quarter 1, 2005 (April 15, 2005)

Station No.: 0069 Address: 9922 South Figueroa Street, Los Angeles, California
Atlantic Richfield Company Environmental Engineer/Phone No.: Jack Oman (714) 730-1898
Consulting Co./Contact Person/Phone No.: SECOR/Mr. Don Indermill/ (805) 230-1266 Ext 269
SECOR Project No.: 37BP.U0069.01
Primary Agency/Regulatory ID No.: LARWQCB / Mr. Jimmy Woo /File No. 905040061
Other Agencies to Receive Copies: None

WORK PERFORMED THIS QUARTER [First - 2005]:

1. Conducted quarterly groundwater sampling and prepared Quarterly Report.
2. Enhanced Fluid Recovery (EFR) on Wells MW-6 and MW-7 Discontinued.
3. Restarted remediation system.
4. Conducted remediation system operation and maintenance.

WORK PROPOSED FOR NEXT QUARTER [Second - 2005]:

1. Conduct quarterly groundwater sampling and prepare Quarterly Report.
2. Continue EFRs in wells MW-5 and MW-6, if needed.
3. Conduct remediation system operation and maintenance.

Current Phase of Project:	Monitoring/Remediation	(Assmnt, Remed. etc)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Separate Phase Hydrocarbon Present On-Site	No	(Yes/No)
Cumulative SPH Recovered to Date:	2.21	(gallons)
SPH Recovered This Quarter:	0	(gallons)
Bulk Soil Removed to Date:	Unknown	(cubic yards)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters (4000-ft radius)	Well 2S/13W-31K02	
Radius & Their Respective Directions:	2,000' North (status unknown)	(Distance and Direction)
Current Remediation Techniques:	EFR, SVE	(SVE, SPH Removal etc.)
Permits for Discharge:	AQMD	(NPDES, POTW, etc.)
Approximate Depth to Groundwater:	Range: 19.23 to 21.38	(Measured Feet)
Groundwater Gradient:	Southeast	(Direction)
	0.008 feet/foot	(Magnitude)

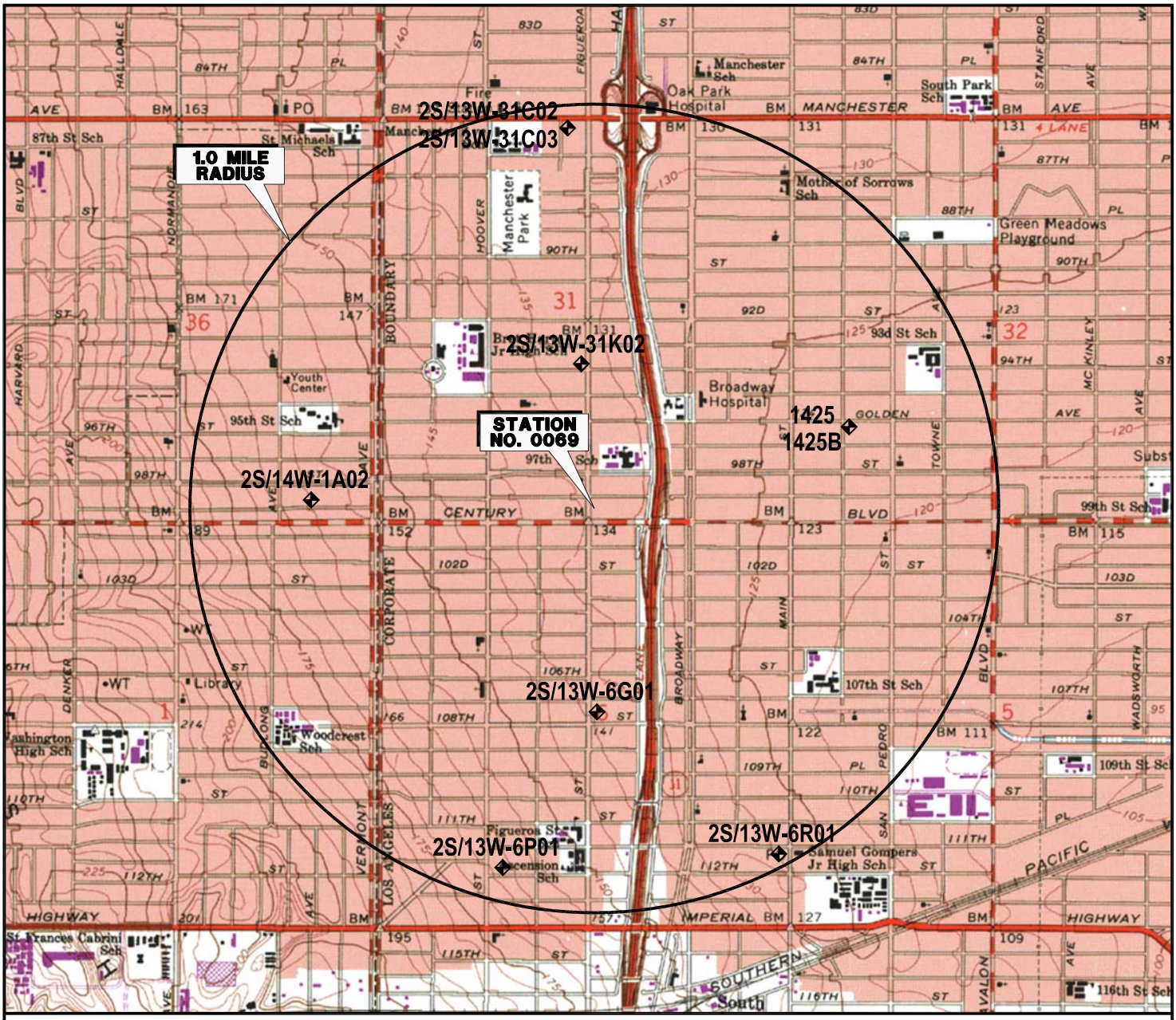
REGISTERED GEOLOGIST
DONALD C. INDERMILL
No. 5102
Exp. 31 Mar 2006
STATE OF CALIFORNIA

Agency Directive Requirement: Continue Quarertly Monitoring

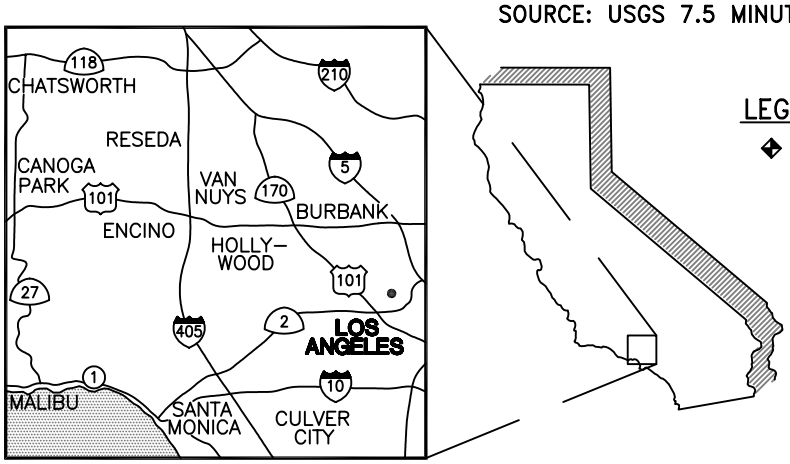
ATTACHED:

Figure 1 - Site Location Map Showing Wells Within A One-Mile Radius
Figure 2 - Site Map Showing Groundwater Monitoring Well Locations
Figure 3 - Site Map Showing Groundwater Contour and Hydrocarbon Concentration Map
Figure 4 - GRO Isoconcentration Map
Figure 5 - Benzene Isoconcentration Map
Figure 6 - MTBE Isoconcentration Map
Figure 7 - TBA Isoconcentration Map
Figure 8 - Cumulative Pounds of Gasoline Range Organics Removed
Table 1 - SVE Operation Report
Table 2 - Summary of SVE Operation Data
Table 3a,b,c - Daily Operational Log
Table 4 - Individual Soil Vapor Extraction Well Field Monitoring Data
Table 5 - Summary of Process Vapor Sampling Results
Table 6 - Summary of Individual Well Vapor Analytical Results
Table 7 - Summary of Grourdwater Analytical and Elevation Results
Table 8 - Summary of Enhanced Fluid Recovery (EFR) Data (Discontinued)
Appendix A - Laboratory Report and Chain-of-Custody
Appendix B - Groundwater Sampling and O&M Field Data Sheets
Appendix C - Waste Disposal Documents

FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS, INGLEWOOD QUADRANGLE, 1964
PHOTO REVISED; 1981



LEGEND

◆ PRODUCTION WELL LOCATION (ACTIVE)

N

0 2000 4000

APPROXIMATE SCALE (FEET)

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STATION NO. 0069
9922 FIGUEROA STREET
LOS ANGELES, CALIFORNIA

SITE LOCATION MAP SHOWING WELLS WITHIN A ONE-MILE RADIUS

FIGURE: **1**

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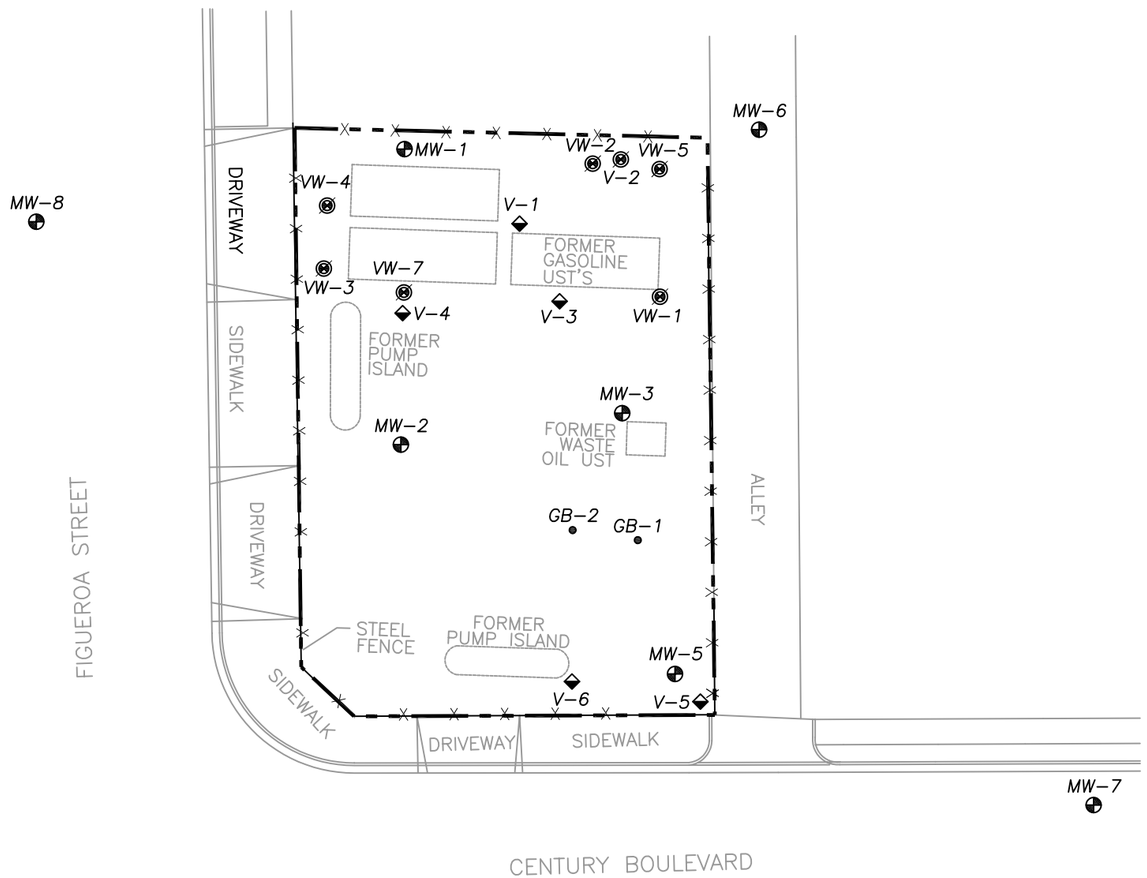
\ARCO\0069 Los Angeles\GIS\SLM-CLR\ 0069-SLMR

LEGEND

— — —	SITE PROPERTY LINE
MW–2	GROUNDWATER MONITORING WELL LOCATION
V–6	VADOSE MONITORING WELL LOCATION
VW–2	ABANDONED VENT WELL/ BORING LOCATION
GB–1	SOIL BORING LOCATION

N



NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.

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SITE MAP SHOWING GROUNDWATER MONITORING WELL LOCATIONS

FIGURE: **2**

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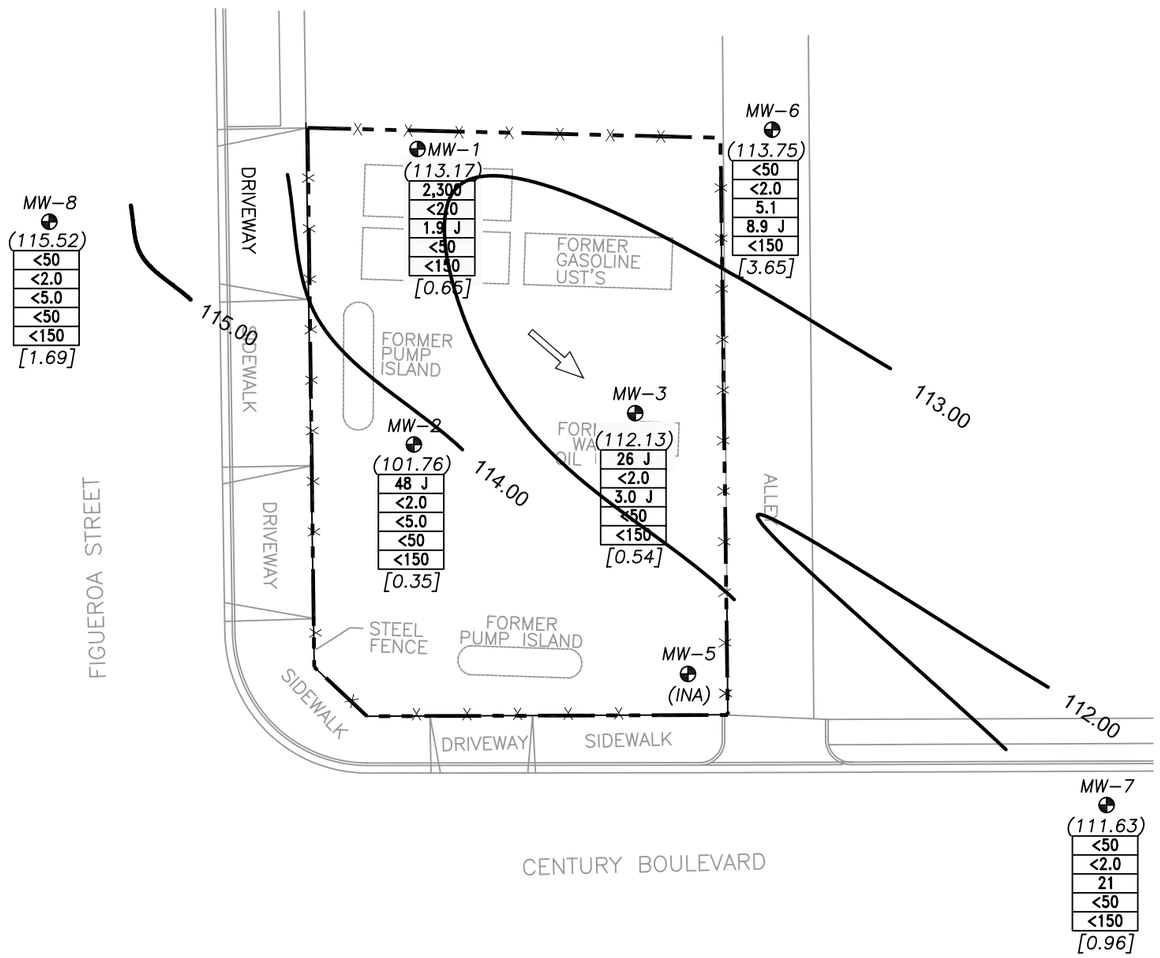
0069-Q1GW05



LEGEND

— — —	SITE PROPERTY LINE
MW-2	GROUNDWATER MONITORING WELL LOCATION
(101.76)	GROUNDWATER ELEVATION (Feet above mean sea level)
GRO / BENZ / MTBE / TBA / ETHANOL	GASOLINE RANGE ORGANICS (C4–C12), BENZENE, MTBE, TERTIARY BUTANOL, AND ETHANOL CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
[0.35]	DISSOLVED–OXYGEN CONCENTRATIONS IN GROUNDWATER
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
	GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION
(INA)	WELL INACCESSIBLE

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON MARCH 2, 2005.

0 30 60

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SITE MAP SHOWING GROUNDWATER CONTOUR AND HYDROCARBON CONCENTRATIONS

FIGURE: **3**

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37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	04/15/05

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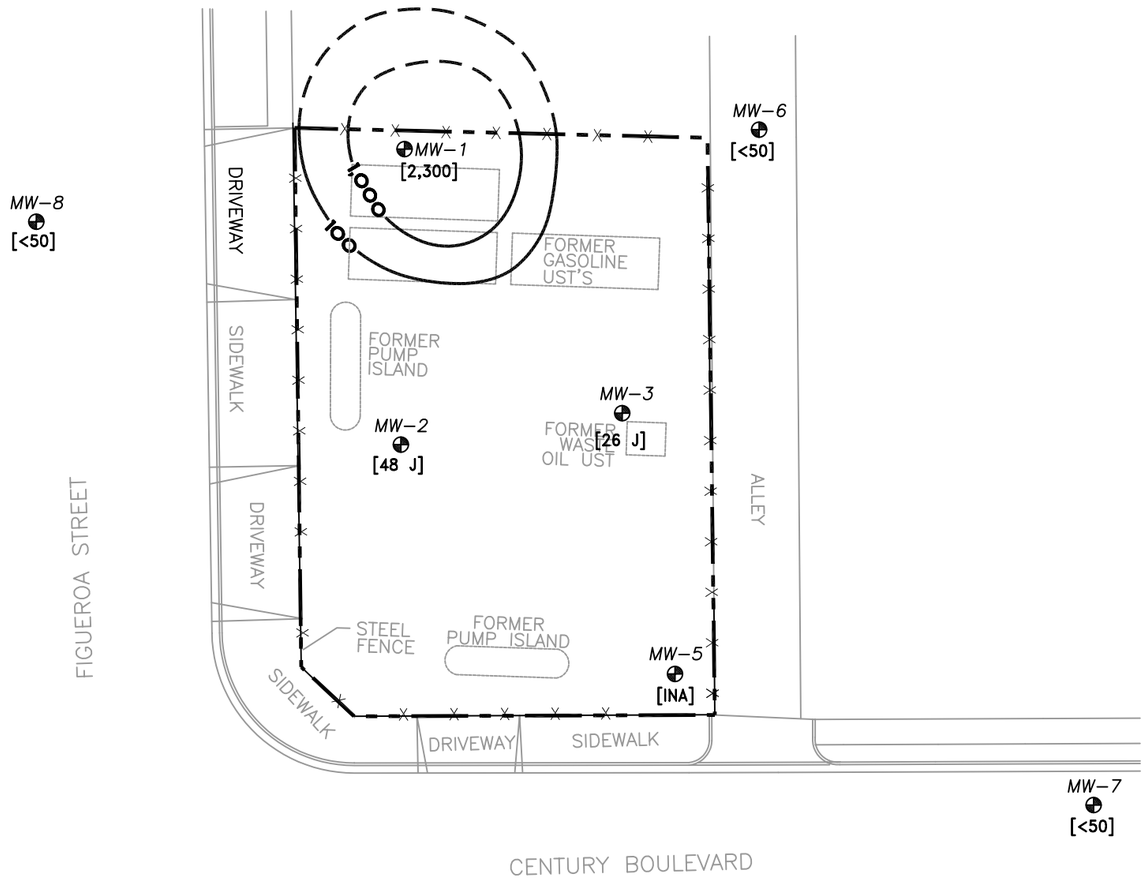

LEGEND

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[GRO]	GASOLINE RANGE ORGANICS (C4–C12), CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
∼	GRO ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE

N

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
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GRO ISOCONCENTRATION MAP

FIGURE: **4**

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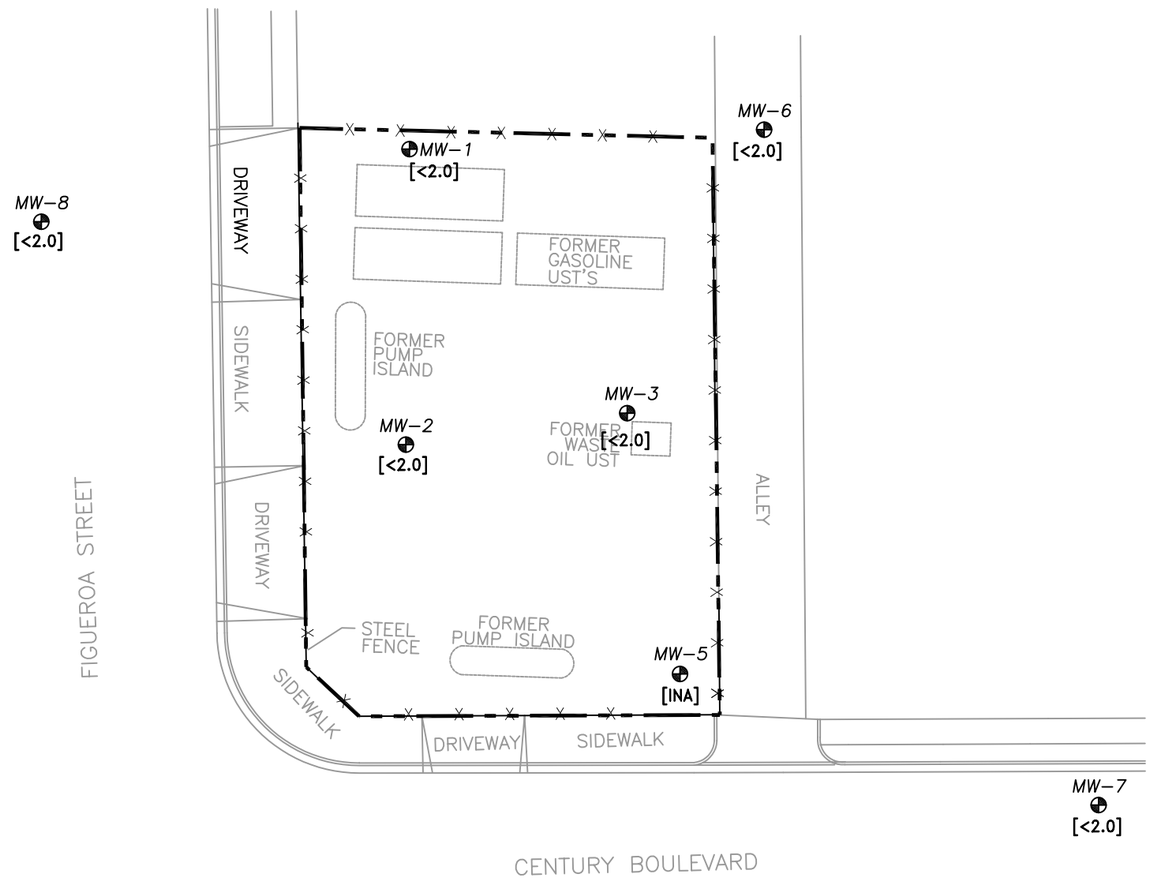

LEGEND

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[BENZ]	BENZENE CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
∼	TPHG ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE

N

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
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BENZENE ISOCONCENTRATION MAP

FIGURE: **5**

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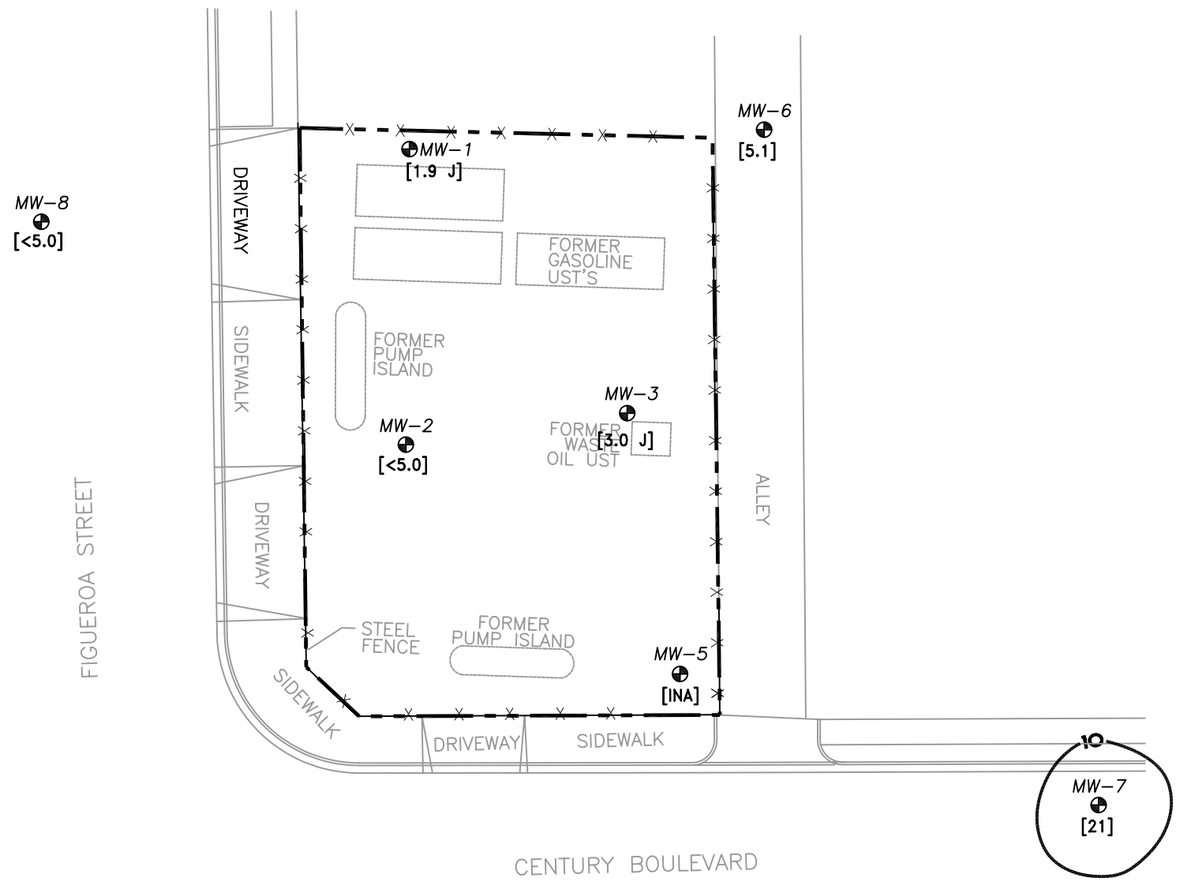

LEGEND

N

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[MTBE]	METHYL TERTIARY BUTYL ETHER CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
∼	METHYL TERTIARY BUTYL ETHER ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
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MTBE ISOCONCENTRATION MAP

FIGURE: **6**

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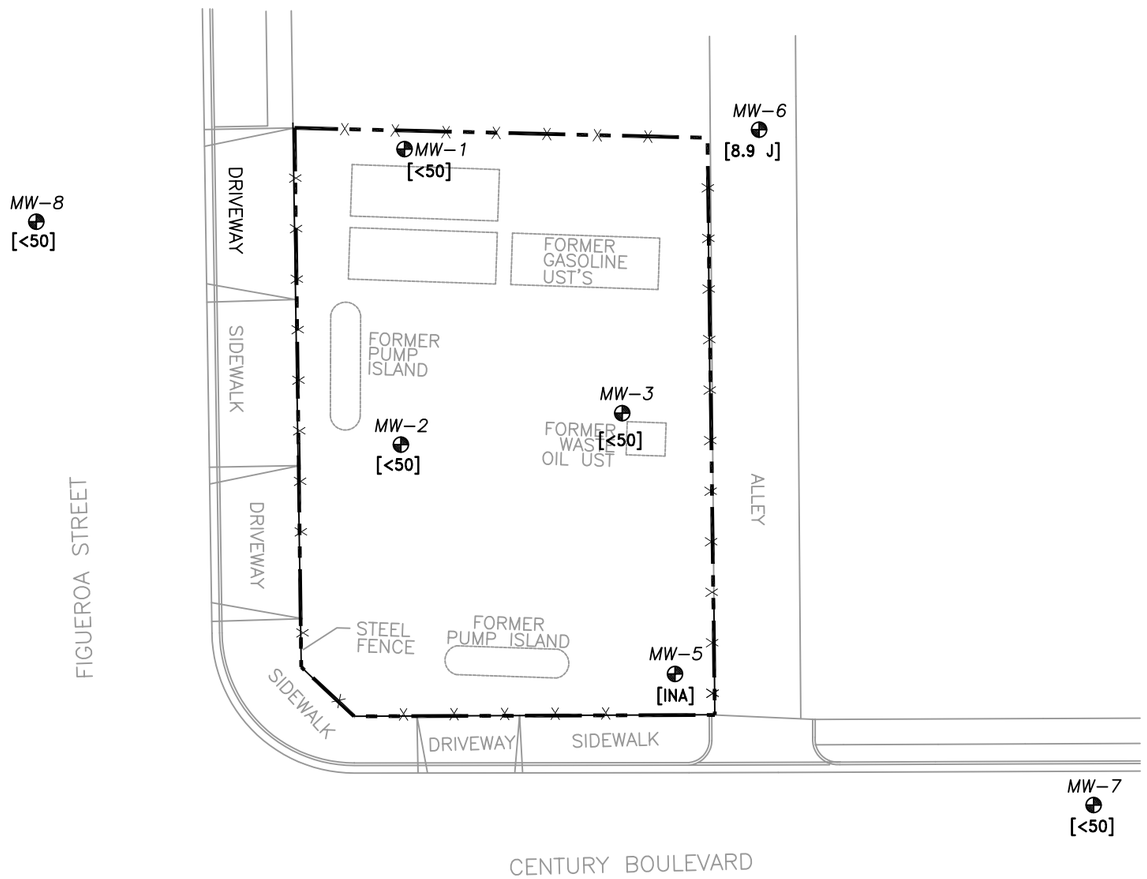

LEGEND

N

— — — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[TBA]	TERTIARY BUTANOL CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
∼	TERTIARY BUTANOL ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON MARCH 2, 2005.

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TBA ISOCONCENTRATION MAP

FIGURE: **7**

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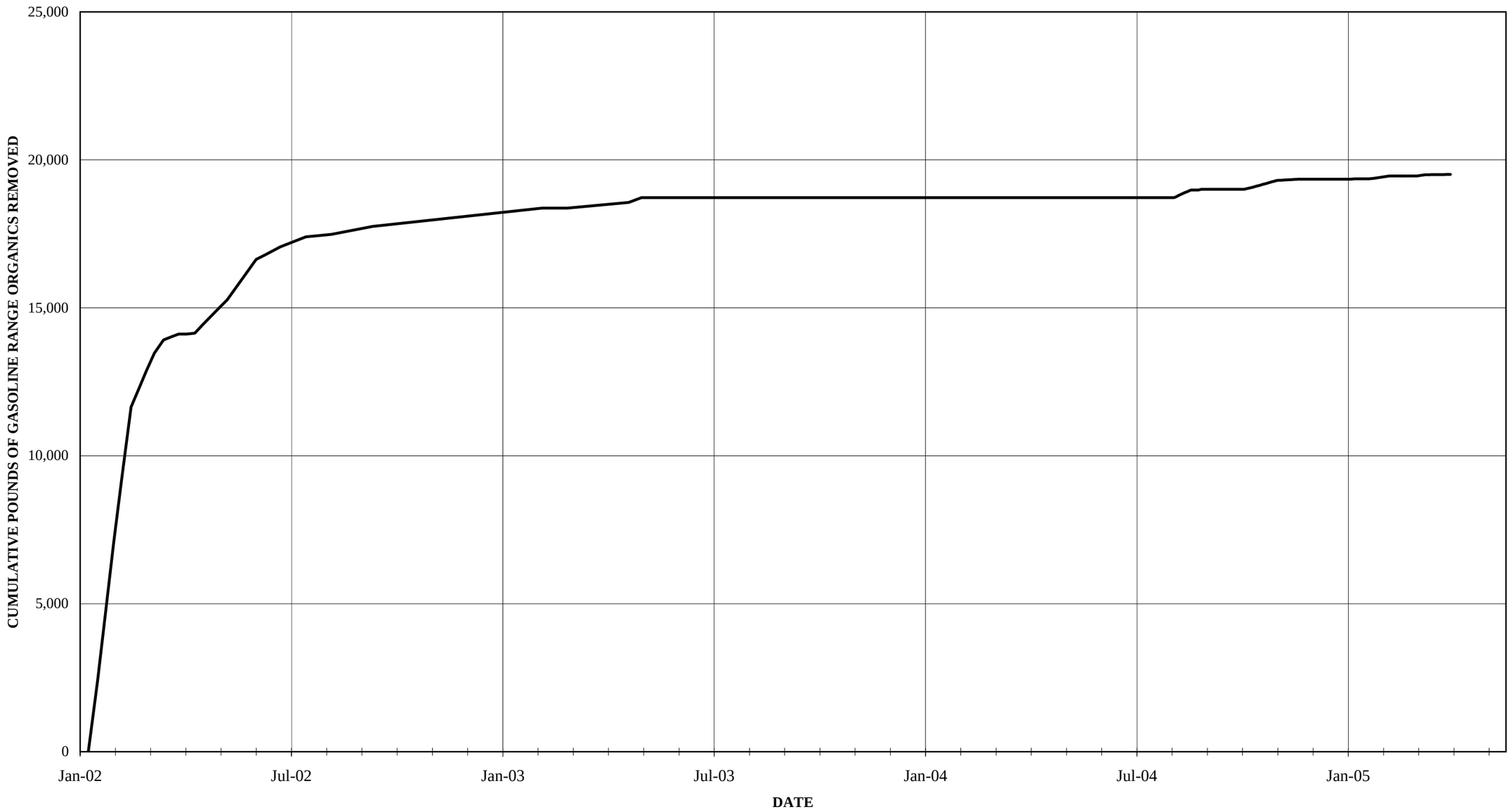
0069-Q1GW05

FIGURE 8
ATLANTIC RICHFIELD COMPANY SERVICE STATION NO. 0069
CUMULATIVE POUNDS OF GASOLINE RANGE ORGANICS REMOVED



TABLES

TABLE 1
SVE OPERATION REPORT

ARCO STATION NO. 0069 9922 Figueroa Street, Los Angeles, CA VES SUMMARY OF THE OPERATING PERIOD First Quarter, 2005	
Atlantic Richfield Company Engineer:	Ray Vose
Consultant:	SECOR International Incorporated
Lead Agency:	SCAQMD
Reporting Period:	January 1, 2005 through March 31, 2005
Equipment Inventory:	King, Buck/Hasstech, Model MMC-5A Skid Mounted
Operating Mode:	Catalytic Oxidation
SCAQMD Permit #:	F64757
Influent GRO Concentration at system start up:	System startup 1/9/02
Field observed concentration:	1,904 ppmv
Laboratory reported concentration:	760 ppmv
Influent Benzene Concentration at system start up:	System startup 2/19/04
Field observed concentration:	not measured
Laboratory reported concentration:	1.9 ppmv
Influent GRO Concentration at end of period:	
Field observed concentration:	479 ppmv (3/10/05)
Laboratory reported concentration:	9.7 ppmv (3/10/05)
Influent Benzene Concentration at end of period:	
Field observed concentration:	not measured
Laboratory reported concentration:	<0.004 ppmv (3/10/05)
Flow Rate at end of period:	147 scfm (3/24/05)
Gasoline Range Organics Removed This Period:	158 lb
Utility usage:	
Electricity:	5,745 kWh
Natural Gas:	6,049 Therms
Percent up time during this period:	53% (Vapor Extraction)
Number of auto shut downs during this period:	2 (Vapor Extraction)

Notes:
NA = Not Available
GRO = Gasoline Range Organics (C4 - C12)

TABLE 2
SUMMARY OF SVE OPERATION DATA

ARCO STATION NO. 0069 **9922 Figueroa Street, Los Angeles, CA** **VES OPERATING REPORT** **First Quarter, 2005**			
CURRENT SOURCE (Without Dilution Air Added)			
Current Well Source:	AMW-1, D-3, D-6, D-7, AMW-2, GTV-1, VE-1, GTW-5		
GRO Concentration at end of period:	9.7	ppmv	(3/10/05)
GRO Concentration at end of last period:	38	ppmv	(11/2/04)
Initial GRO Concentration:	760	ppmv	(initial startup 2/19/04)
Benzene Concentration at end of period:	<0.004	ppmv	(3/10/05)
Benzene Concentration at end of last period:	<1.2	ppmv	(11/2/04)
Initial Benzene Concentration:	1.9	ppmv	(initial startup 2/19/04)
CURRENT PROCESS (With Dilution Air Added) - INFLUENT SUMMARY			
GRO Concentration at end of period:	NA		
GRO Concentration at end of last period:	NA		
Benzene Concentration at end of period:	NA		
Benzene Concentration at end of last period:	NA		
Initial Benzene Concentration:	NA		
CURRENT PROCESS - EFFLUENT SUMMARY			
GRO Concentration at end of period:	<1.0	ppmv	(3/10/05)
GRO Permit Requirement Concentration:	50	ppmv	(as Hexane)
Percent (%) TPH Conversion:	99.5	%	
Benzene Concentration at end of period:	<0.002	ppmv	(3/10/05)
Benzene Permit Requirement Concentration:	0.4	ppmv	
MTBE Concentration at end of period:	<0.002	ppmv	(3/10/05)
MTBE Permit Requirement Concentration:	3.9	ppmv	
Cumulative Hydrocarbons removed:	19,508	lb	
Avg. Stack Temperature (Process):	1449	deg. F	
(Catalytic/Outlet):	1453	deg. F	
Avg. Source Flow:	164	scfm	
Avg. Effluent Flow:	164	scfm	
Avg. Source Vacuum:	69	in. H_2O	

Notes:
Average values do not include down time.
NA = Not Applicable
NM = Not Measured
GRO = Gasoline Range Organics (C_4 - C_{12})

TABLE 3a

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

JANUARY, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
01/01/05	system off											19,349	0.0
01/02/05	system off											19,349	0.0
01/03/05	system off											19,349	0.0
01/04/05	system off											19,349	0.0
01/05/05	TECH	1					99.5	130	80	1,460	1,471	19,350	14.0
01/06/05	TECH	2	100	<1.0	387	4.6	99.5	187	140	1,444	1,448	19,355	17.9
01/07/05	*				387	4.6	99.5	187	140	1,444	1,448	19,361	23.3
01/08/05	system off											19,361	0.0
01/09/05	system off											19,361	0.0
01/10/05	system off											19,361	0.0
01/11/05	system off											19,361	0.0
01/12/05	system off											19,361	0.0
01/13/05	system off	3										19,361	0.0
01/14/05	system off	4, 5										19,361	0.0
01/15/05	system off											19,361	0.0
01/16/05	system off											19,361	0.0
01/17/05	system off											19,361	0.0
01/18/05	system off											19,361	0.0
01/19/05	system off											19,361	0.0
01/20/05	system off	6										19,361	0.0
01/21/05	TECH	7			269	0.0	99.5	155	67	1,450	1,455	19,363	13.1
01/22/05	*				269	0.0	99.5	155	67	1,450	1,455	19,368	24.0
01/23/05	*				269	0.0	99.5	155	67	1,450	1,455	19,373	24.0
01/24/05	*				269	0.0	99.5	155	67	1,450	1,455	19,379	24.0
01/25/05	*				269	0.0	99.5	155	67	1,450	1,455	19,384	24.0
01/26/05	*				269	0.0	99.5	155	67	1,450	1,455	19,389	24.0
01/27/05	TECH				294	0.0	99.5	180	67	1,440	1,446	19,394	22.0
01/28/05	*				294	0.0	99.5	180	67	1,440	1,446	19,400	24.0
01/29/05	*				294	0.0	99.5	180	67	1,440	1,446	19,406	24.0
01/30/05	*				294	0.0	99.5	180	67	1,440	1,446	19,412	24.0
01/31/05	*				294	0.0	99.5	180	67	1,440	1,446	19,418	24.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,418
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG JANUARY, 2005	68
TOTAL HOURS ON-LINE DURING JANUARY, 2005	306

Notes:
1 - Wired up new motor. Turned system on for 15 hour test.
2 - Certified vapor sampling.

TECH - Technician performed O&M on this date
GRO - Gasoline Range Organics (C_4 - C_{12})
* - Data extrapolated
-- - Not Applicable

3 - Main breaker to SVE system had blown fuse. Locked out breaker and ordered fuse.
4 - Replaced fuse and restarted system. When autodilution valve was closed system pulled too many amps.
5 - All piping is 4 inch galvanized steel. Will order replacement valve to install to reduce amps.
6 - Installed autodilution valve. Air pulling through manifold was very loud. Order 4 foot pipe section to muffle noise.
7 - Installed pipe section to muffle noise. Restarted system. Noted reduced amps pulled by motor.

TABLE 3b

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

FEBRUARY, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
02/01/05	*				294	0.0	99.5	180	67	1,440	1,446	19,423	24.0
02/02/05	*				294	0.0	99.5	180	67	1,440	1,446	19,429	24.0
02/03/05	TECH	1			311	0.0	99.5	191	71	1,445	1,450	19,436	24.0
02/04/05	*				311	0.0	99.5	191	71	1,445	1,450	19,442	24.0
02/05/05	*				311	0.0	99.5	191	71	1,445	1,450	19,448	24.0
02/06/05	*				311	0.0	99.5	191	71	1,445	1,450	19,454	24.0
02/07/05	*				311	0.0	99.5	191	71	1,445	1,450	19,457	9.0
02/08/05	system off											19,457	0.0
02/09/05	system off											19,457	0.0
02/10/05	system off	2										19,457	0.0
02/11/05	system off											19,457	0.0
02/12/05	system off											19,457	0.0
02/13/05	system off											19,457	0.0
02/14/05	system off											19,457	0.0
02/15/05	system off											19,457	0.0
02/16/05	system off											19,457	0.0
02/17/05	system off											19,457	0.0
02/18/05	system off											19,457	0.0
02/19/05	system off											19,457	0.0
02/20/05	system off											19,457	0.0
02/21/05	system off											19,457	0.0
02/22/05	system off											19,457	0.0
02/23/05	system off											19,457	0.0
02/24/05	system off											19,457	0.0
02/25/05	system off											19,457	0.0
02/26/05	system off											19,457	0.0
02/27/05	system off											19,457	0.0
02/28/05	system off											19,457	0.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,457
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG FEBRUARY, 2005	39
TOTAL HOURS ON-LINE DURING FEBRUARY, 2005	153

Notes:
1 - Certified vapor sampling. However, the are no analytical results due to STL exceeding hold time.
2 - System shut down automatically due to blown fuse.

TECH - Technician performed O&M on this date
* - Data extrapolated
GRO - Gasoline Range Organics (C_4 - C_{12})
-- - Not Applicable

TABLE 3c

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

MARCH, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
03/01/05	system off											19,457	0.0
03/02/05	system off											19,457	0.0
03/03/05	*				311	0.0	99.5	191	71	1,445	1,450	19,460	12.7
03/04/05	*				311	0.0	99.5	191	71	1,445	1,450	19,466	24.0
03/05/05	*				311	0.0	99.5	191	71	1,445	1,450	19,472	24.0
03/06/05	*				311	0.0	99.5	191	71	1,445	1,450	19,479	24.0
03/07/05	*				311	0.0	99.5	191	71	1,445	1,450	19,485	24.0
03/08/05	*				311	0.0	99.5	191	71	1,445	1,450	19,491	24.0
03/09/05	*				311	0.0	99.5	191	71	1,445	1,450	19,497	24.0
03/10/05	TECH	1	9.7	<1.0	479	0.2	99.0	146	60	1,455	1,459	19,498	24.0
03/11/05	*				479	0.2	99.0	146	60	1,455	1,459	19,498	24.0
03/12/05	*				479	0.2	99.0	146	60	1,455	1,459	19,499	24.0
03/13/05	*				479	0.2	99.0	146	60	1,455	1,459	19,499	24.0
03/14/05	*				479	0.2	99.0	146	60	1,455	1,459	19,500	24.0
03/15/05	*				479	0.2	99.0	146	60	1,455	1,459	19,500	24.0
03/16/05	*				479	0.2	99.0	146	60	1,455	1,459	19,501	24.0
03/17/05	TECH				482	0.0	99.0	147	63	1,453	1,457	19,501	23.4
03/18/05	*				482	0.0	99.0	147	63	1,453	1,457	19,502	24.0
03/19/05	*				482	0.0	99.0	147	63	1,453	1,457	19,502	24.0
03/20/05	*				482	0.0	99.0	147	63	1,453	1,457	19,502	24.0
03/21/05	*				482	0.0	99.0	147	63	1,453	1,457	19,503	24.0
03/22/05	*				482	0.0	99.0	147	63	1,453	1,457	19,503	24.0
03/23/05	*				482	0.0	99.0	147	63	1,453	1,457	19,504	24.0
03/24/05	TECH				461	0.0	99.0	147	61	1,451	1,455	19,504	24.0
03/25/05	*				461	0.0	99.0	147	61	1,451	1,455	19,505	24.0
03/26/05	*				461	0.0	99.0	147	61	1,451	1,455	19,505	24.0
03/27/05	*				461	0.0	99.0	147	61	1,451	1,455	19,506	24.0
03/28/05	*				461	0.0	99.0	147	61	1,451	1,455	19,506	24.0
03/29/05	*				461	0.0	99.0	147	61	1,451	1,455	19,507	24.0
03/30/05	*				461	0.0	99.0	147	61	1,451	1,455	19,507	24.0
03/31/05	TECH				414	0.0	99.0	147	60	1,450	1,452	19,508	24.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,508
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG MARCH, 2005	51
TOTAL HOURS ON-LINE DURING MARCH, 2005	684

Notes:
1 - Certified vapor sampling.

TECH - Technician performed O&M on this date
* - Data extrapolated
GRO - Gasoline Range Organics (C_4 - C_{12})
-- - Not Applicable

TABLE 4
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
VE-6	01/06/05	2,106	--	140	100
	01/21/05	1,191	--	67	100
	01/27/05	1,092	--	67	100
(14 TO 24.5)	02/03/05	947	--	71	100
	03/10/05	60	--	1226	100
(28)*	03/17/05	63	--	1004	100
	03/24/05	61	--	991	100
	03/31/05	60	--	826	100
MW-5	01/06/05	667	--	140	100
	01/21/05	415	--	67	100
	01/27/05	397	--	67	100
(5 TO 30)	02/03/05	361	--	71	100
	03/10/05	60	--	418	100
(64)*	03/17/05	63	--	398	100
	03/24/05	61	--	299	100
	03/31/05	60	--	217	100
MW-3	01/06/05		--	--	0
	01/21/05		--	--	0
	01/27/05		--	--	0
(20 TO 40)	02/03/05		--	--	0
	03/10/05		--	--	0
(1,600)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0
MW-2	01/06/05		--	--	0
	01/21/05		--	--	0
	01/27/05		--	--	0
(6 TO 31)	02/03/05		--	--	0
	03/10/05		--	--	0
(530)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0
V-4 Low	01/06/05		--	--	0
	01/21/05		--	--	0
	01/27/05		--	--	0
(10 TO 17)	02/03/05		--	--	0
	03/10/05		--	--	0
(3,500)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0

TABLE 4
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
V-4 High	01/06/05		--	--	0
	01/21/05		--	--	0
	01/27/05		--	--	0
(35.5 TO 53.5)	02/03/05		--	--	0
	03/10/05		--	--	0
(54)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0
	01/06/05		--	--	0
MW-1	01/21/05		--	--	0
	01/27/05		--	--	0
(5 TO 31)	02/03/05		--	--	0
	03/10/05		--	--	0
(4,200)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0
V-1 Low	01/06/05	43	--	140	100
	01/21/05	24	--	67	100
	01/27/05	56	--	67	100
(20 TO 40)	02/03/05	129	--	71	100
	03/10/05		--	--	0
(3,900)*	03/17/05		--	--	0
	03/24/05		--	--	0
	03/31/05		--	--	0
V-1 High	01/06/05	209	--	140	100
	01/21/05	129	--	67	100
	01/27/05	139	--	67	100
(15 TO 30)	02/03/05	196	--	71	100
	03/10/05	60	--	210	100
(4,700)*	03/17/05	63	--	198	100
	03/24/05	61	--	171	100
	03/31/05	60	--	179	100
V-1 Mid	01/06/05	56	--	140	100
	01/21/05	47	--	67	100
	01/27/05	53	--	67	100
(17 TO 26.5)	02/03/05	42	--	71	100
	03/10/05	60	--	289	100
(2,800)*	03/17/05	63	--	292	100
	03/24/05	61	--	307	100
	03/31/05	60	--	323	100
V-3 Low	01/06/05	58	--	140	100
	01/21/05	52	--	67	100
	01/27/05	60	--	67	100
(17 TO 26.5)	02/03/05	79	--	71	100
	03/10/05	60	--	101	100
(2,800)*	03/17/05	63	--	166	100
	03/24/05	61	--	176	100
	03/31/05	60	--	155	100

TABLE 4
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
V-3 High	01/06/05	49	--	140	100
	01/21/05	38	--	67	100
	01/27/05	44	--	67	100
(32 TO 51.5)	02/03/05	53	--	71	100
	03/10/05	60	--	30.5	100
(80)*	03/17/05	63	--	55.1	100
	03/24/05	61	--	35.2	100
	03/31/05	60	--	30.8	100

VOC = Volatile Range Organics
* = GRO from Laboratory analytical samples taken on start-up
-- = not measured

TABLE 5
Summary of Process Vapor Sampling Results
ARCO STATION NO. 0069
9922 Figueroa Street, Los Angeles, CA

Sample Date	Sample ID	GRO (ppmV)	Benzene (ppmV)	Ethylbenzene (ppmV)	Toluene (ppmV)	Total Xylenes (ppmV)	DIPE (ppmV)	ETBE (ppmV)	MTBE (ppmV)	TAME (ppmV)	TBA (ppmV)	CO_2 (%)	CO (%)	CH_4 (%)	N_2 (%)	O_2 (%)
8/5/2004	Influent	240	<1.2	<0.92	1.2	6.5	<2.4	<2.7	<2.8	<2.4	<33	2.5	<0.10	<0.10	79	18
	Effluent	5.1	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.3	<0.10	<0.10	81	15
10/5/2004	Influent	180	<1.2	1.8	4	19	<2.4	<2.7	<2.8	<2.4	<33	--	--	--	--	--
	Effluent	<2.4	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	--	--	--	--	--
11/2/2004	Influent	38	<1.2	<0.92	<1.1	3.6	<2.4	<2.7	<2.8	<2.4	<33	0.55	<0.10	<0.10	78	21
	Effluent	<2.4	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.1	0.10	<0.10	80	16
1/6/2005	Influent	100	0.089	0.58	0.43	6.9	<0.02	<0.02	0.14	<0.02	<0.10	0.62	<0.001	0.0061	77	21
	Effluent	<1.0	<0.002	<0.002	<0.005	0.0036	<0.002	<0.002	<0.002	<0.002	<0.010	0.052	<0.001	0.00021	76	21
3/10/2005	Influent	9.7	<0.004	0.071	<0.01	1.4	<0.004	<0.004	<0.004	<0.004	<0.02	0.22	<0.001	0.00026	77	22
	Effluent	<1.0	<0.002	<0.002	<0.005	0.014	<0.002	<0.002	<0.002	<0.002	<0.01	0.061	<0.001	0.00028	77	22

Notes:

GRO = Gasoline Range Organics (C_4 - C_{12})
BTEX and Oxygenates analyzed using EPA Method 8260B
Effluent Benzene analyzed using EPA Method 410A Modified
Fixed gases analyzed using ASTM 1946-90
ppmV = Parts per million on a volume basis
-- = Not sampled/Not analyzed

DIPE = Di-Isopropyl ether
ETBE = Ethyl tert-butyl ether
MTBE = Methyl Tertiary Butyl Ether
TAME = Tertiary-amyl methylether
TBA = Tert-butyl alcohol

CO_2 = Carbon dioxide
CO = Carbon monoxide
CH_4 = Methane
N_2 = Nitrogen
O_2 = Oxygen
(%) = Percentage of air volume

TABLE 6
Summary of Individual Well Vapor Sample Analytical Results
ARCO STATION NO. 0069
9922 Figueroa Street, Los Angeles, CA

Sample Date	Sample ID	GRO (ppmV)	Benzene (ppmV)	Ethylbenzene (ppmV)	Toluene (ppmV)	Total Xylenes (ppmV)	DIPE (ppmV)	ETBE (ppmV)	MTBE (ppmV)	TAME (ppmV)	TBA (ppmV)	CO_2 (%)	CO (%)	CH_4 (%)	N_2 (%)	O_2 (%)
8/5/2004	V-1a Low	95	<1.2	<0.92	<1.1	2.6	<2.4	<2.7	<2.8	<2.4	<33	2.1	<0.10	<0.10	78	20
8/5/2004	V-1b Mid	1,600	6.1	10	2.8	82	<2.4	<2.7	<2.8	<2.4	<33	8.1	<0.10	0.11	82	9.8
8/5/2004	V-1c High	48	<1.2	<0.92	<1.1	4.6	<2.4	<2.7	<2.8	<2.4	<33	1.9	<0.10	<0.10	78	20
8/5/2004	V-3a Low	16	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.2	<0.10	<0.10	81	15
8/5/2004	V-3b High	23	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	3.0	<0.10	<0.10	80	17
8/5/2004	V-4a Low	7.6	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	1.4	<0.10	<0.10	79	20
8/5/2004	V-4b High	62	<1.2	<0.92	<1.1	4.5	<2.4	<2.7	<2.8	<2.4	<33	1.4	<0.10	<0.10	82	16
8/5/2004	V-6	1,100	5.4	2.3	5.6	19	<2.4	<2.7	6.3	<2.4	<33	5.0	<0.10	0.11	82	13
8/5/2004	MW-1	13	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	1.5	<0.10	<0.10	82	17
8/5/2004	MW-2	22	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	0.81	<0.10	<0.10	84	16
8/5/2004	MW-3	18	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	0.79	<0.10	<0.10	83	16
8/5/2004	MW-5	530	2.2	3.7	2.2	26	<2.4	<2.7	3.2	<2.4	<33	3.8	<0.10	<0.10	82	14

Notes:

GRO = Gasoline Range Organics (C_4 - C_{12})
BTEX and Oxygenates analyzed using EPA Method 8260B
Effluent Benzene analyzed using EPA Method 410A Modified
Fixed gases analyzed using ASTM 1946-90
ppmV = Parts per million on a volume basis
-- = Not sampled/Not analyzed

DIPE = Di-Isopropyl ether
ETBE = Ethyl tert-butyl ether
MTBE = Methyl Tertiary Butyl Ether
TAME = Tertiary-amyl methylether
TBA = Tert-butyl alcohol

CO_2 = Carbon dioxide
CO = Carbon monoxide
CH_4 = Methane
N_2 = Nitrogen
O_2 = Oxygen
(%) = Percentage of air volume

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-1	01/31/96		133.60	24.00	0.00	109.60	7,400	290	580	480	1,500	-	-	-	-	-	-	MW-1	
	04/15/96			24.50	0.00	109.10	5,200	190	370	370	1,000	3,400	-	-	-	-	-	MW-1	
	07/22/96			24.90	0.00	108.70	12,000	320	1,000	760	2,900	4,500	-	-	-	-	-	MW-1	
	10/17/96			24.87	0.00	108.73	6,600	110	390	400	1,500	3,600	-	-	-	-	-	MW-1	
	03/25/97			25.00	0.00	108.60	5,600	56	200	390	1,000	3,000	-	-	-	-	-	MW-1	
	06/20/97			22.70	0.00	110.90	2,600	28	5.5	400	62	9,300	-	-	-	-	-	MW-1	
	08/22/97			23.69	0.00	109.91	2,900	24	<3.9	260	19	9,100	-	-	-	-	-	MW-1	
	11/17/97			24.36	0.00	109.24	7,200	42	16	290	77	15,000	-	-	-	-	-	MW-1	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			17.64	0.00	115.96	360	5.0	2.7	5.2	4.0	7,300	-	-	-	-	-	MW-1	
	08/20/98			19.55	0.00	114.05	420	10	2.6	4.1	5.7	2,900	-	-	-	-	-	MW-1	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			21.98	0.00	111.62	950	13	2.8	1.7	2.4	12,000	-	-	-	-	-	MW-1	
	06/15/99			22.14	0.00	111.46	940	12	<3.0	3.4	<6.0	5,700	-	-	-	-	-	MW-1	
	09/01/99			22.78	0.00	110.82	630	9.9	1.4	0.95	2.0	4,100	-	-	-	-	-	MW-1	
	11/30/99			23.53	0.00	110.07	850	7.0	<0.30	0.39	3.8	5,400	-	-	-	-	-	MW-1	
	03/23/00			23.98	0.00	109.62	7,200	26 J	300	830	3,100	2,200	1,600	<100	<100	<100	-	MW-1	
	04/17/00			23.81	0.00	109.79	15,000	31 J	340	840	3,200	2,200	1,500 J	<25	<28	<34	-	MW-1	
	07/11/00			23.93	0.00	109.67	7,100	16 J	160	450	1,600	1,100	1,700	<10	<11	<14	-	MW-1	
	10/11/00			24.41	0.00	109.19	16,000	21 J	210	610	2,000	1,100	970 J	<10	<11	15 J	-	MW-1	
	01/04/01			25.05	0.00	108.55	12,000	16 J	170	560	2,000	600	1,100	<10	<11	<14	-	MW-1	
	04/19/01			23.23	0.00	110.37	8,100	22 J	110	320	1,100	590	900	<20	<20	<20	-	MW-1	
	07/09/01			23.10	0.00	110.50	7,900	19 J	120	480	1,500	470	1,500	<20	<20	<20	-	MW-1	
	10/02/01			24.94	0.00	108.66	6,100	<10	64	330	980	180	1,100	<20	<20	<20	-	MW-1	
	01/03/02			26.22	0.00	107.38	6,500	<10	81	430	1,200	250	890	<20	<20	<20	-	MW-1	
	04/02/02			26.02	0.00	107.58	3,500	<10	41 J	280	780	90	560	<20	<20	<20	-	MW-1	
	08/23/02			24.69	0.00	108.91	2,400	1.5 J	25	210	530	47	170	<5.0	<5.0	0.64 J	-	MW-1	
	12/19/02			25.63	0.00	107.97	10,000	3.0 J	47	440	1,100	59	160	<10	<10	0.72 J	-	MW-1	
	02/06/03			25.92	0.00	107.68	6,700	2.9 J	36	340	790	55	130	<10	<10	<10	<300	MW-1	
	05/20/03			24.11	0.00	109.49	3,900	<0.5	11	120	300	23	72	<1.0	<1.0	<1.0	<50	MW-1	
	07/18/03			23.54	0.00	110.06	2,600	<10	13	160	400	29	57 J	<25	<25	<25	<750	MW-1	
	11/21/03			23.47	0.00	110.13	1,100	<2.0	5.3	72	170	17	27 J	<5.0	<5.0	<5.0	<150	MW-1	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		24.71	0.00	108.89	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	1,500	<8.0	18	140	390	5.7 J	21 J	<20	<20	<20	<600	MW-1	
	12/14/04			24.81	0.00	108.79	770	<2.0	4.9	25	110	5.0	5.5 J	<5.0	<5.0	<5.0	<150	MW-1	
	03/02/05			20.43	0.00	113.17	2,300	<2.0	4.6	62	150	1.9 J	<50	<5.0	<5.0	<5.0	<150	MW-1	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-2	01/31/96		133.36	23.30	0.00	110.06	16,000	2,200	420	1,500	2,700	-	-	-	-	-	-	MW-2	
	04/15/96			24.30	0.00	109.06	20,000	1,800	280	1,600	2,200	<10	-	-	-	-	-	MW-2	
	07/22/96			24.60	0.00	108.76	16,000	1,000	170	1,100	1,400	<10	-	-	-	-	-	MW-2	
	10/17/96			24.25	0.00	109.11	16,000	1,100	150	1,300	1,600	<10	-	-	-	-	-	MW-2	
	03/25/97			22.22	0.00	111.14	11,000	480	58	660	990	<10	-	-	-	-	-	MW-2	
	06/20/97			21.39	0.00	111.97	1,500	86	<6.0	70	48	130	-	-	-	-	-	MW-2	
	08/22/97			22.16	0.00	111.20	1,200	40	7.5	28	35	82	-	-	-	-	-	MW-2	
	11/17/97			22.88	0.00	110.48	1,300	45	<0.5	15	30	42	-	-	-	-	-	MW-2	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			19.00	0.00	114.36	360	21	<0.30	4.8	0.83	130	-	-	-	-	-	MW-2	
	08/20/98			19.33	0.00	114.03	230	8.5	<0.30	2.4	<0.60	190	-	-	-	-	-	MW-2	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.85	0.00	110.51	120	0.85	<0.30	<0.30	0.64	120	-	-	-	-	-	MW-2	
	06/15/99			21.96	0.00	111.40	110	1.2	<0.30	0.56	<0.60	70	-	-	-	-	-	MW-2	
	09/01/99			22.47	0.00	110.89	110	0.42	<0.30	<0.30	<0.60	45	-	-	-	-	-	MW-2	
	11/30/99			23.02	0.00	110.34	150	1.7	<0.30	<0.30	<0.60	21	-	-	-	-	-	MW-2	
	03/23/00			23.47	0.00	109.89	3,400	29	0.18 J	82	67	15	<50	<5.0	<5.0	<5.0	-	MW-2	
	04/17/00			23.19	0.00	110.17	4,700	36	0.21 J	73	77	15	5.4	<0.50	<0.57	<0.68	-	MW-2	
	07/11/00			23.36	0.00	110.00	4,500	28	0.24 J	94	56	13	<5.0	<0.50	<0.57	<0.68	-	MW-2	
	10/11/00			23.65	0.00	109.71	2,800	25	0.16 J	57	41	8.1	<5.0	<0.50	<0.57	<0.68	-	MW-2	
	01/04/01			24.49	0.00	108.87	4,200	20	0.32 J	86	51	6.8 J	<10	<1.0	<1.1	<1.4	-	MW-2	
	04/19/01			22.93	0.00	110.43	2,600	19	<1.0	59	71	16	<10	<2.0	<2.0	<2.0	-	MW-2	
	07/09/01			22.68	0.00	110.68	2,100	12	<1.0	27	31	34	<10	<2.0	<2.0	<2.0	-	MW-2	
	10/02/01			24.30	0.00	109.06	1,600	7.6	<1.0	18	18	22	<10	<2.0	<2.0	<2.0	-	MW-2	
	01/03/02			25.81	0.00	107.55	2,000	9.0	<1.0	32	26	11	<10	<2.0	<2.0	<2.0	-	MW-2	
	04/02/02			25.40	0.00	107.96	1,200	5.1	<1.0	13	7.8	5.1	<10	<2.0	<2.0	<2.0	-	MW-2	
	08/23/02			24.46	0.00	108.90	330	1.4 J	<2.0	2.4	2.4 J	1.8 J	<50	<5.0	<5.0	<5.0	-	MW-2	
	12/19/02			24.63	0.00	108.73	230	0.89 J	<2.0	0.98 J	0.65 J	0.60 J	<50	<5.0	<5.0	<5.0	-	MW-2	
	02/06/03			24.94	0.00	108.42	370	1.9 J	<2.0	1.8 J	1.1 J	1.2 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	05/20/03			23.41	0.00	109.95	96	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-2	
	07/18/03			23.01	0.00	110.35	40 J	<2.0	<2.0	<2.0	<4.0	0.51 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	11/21/03			23.60	0.00	109.76	99	<2.0	<2.0	<2.0	<4.0	0.38 J	<50	<5.0	<5.0	<5.0	<150	MW-2	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-2	02/20/04	INA	133.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04		134.56	24.45	0.00	110.11	370	0.61 J	<2.0	1.7 J	1.5 J	0.58 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	06/23/04	DUP		-	-	-	610	0.62 J	<2.0	1.7 J	1.4 J	0.54 J	<50	<5.0	<5.0	<5.0	<150	Dup-0069-20040623	
	09/08/04	NS		24.49	0.00	110.07	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	320	1.8 J	<2.0	2.3	<4.0	0.51 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	12/14/04			24.66	0.00	109.90	570	0.86 J	<2.0	1.5 J	1.0 J	0.36 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	12/14/04	DUP		-	-	-	570	0.72 J	<2.0	1.1 J	0.69 J	0.43 J	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20041214	
	03/02/05			32.80	0.00	101.76	48 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-2	
	03/02/05	DUP		-	-	-	45 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20050302	

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9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-3	01/31/96		133.51	24.00	0.00	109.51	8,000	3,400	<30	280	<60	-	-	-	-	-	-	MW-3	
	04/15/96			24.40	0.00	109.11	5,200	2,700	<30	170	<60	2,800	-	-	-	-	-	MW-3	
	07/22/96			25.15	0.00	108.36	8,700	4,700	<30	480	91	3,000	-	-	-	-	-	MW-3	
	10/17/96			25.42	0.00	108.09	13,000	6,800	93	750	280	3,400	-	-	-	-	-	MW-3	
	03/25/97			23.20	0.00	110.31	9,800	3,700	52	530	300	1,200	-	-	-	-	-	MW-3	
	06/20/97			22.16	0.00	111.35	370	35	2.4	2.3	3.0	430	-	-	-	-	-	MW-3	
	08/22/97			23.88	0.00	109.63	360	4.7	0.74	1.1	1.9	370	-	-	-	-	-	MW-3	
	11/17/97			24.39	0.00	109.12	400	2.6	0.80	1.7	2.8	470	-	-	-	-	-	MW-3	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			18.80	0.00	114.71	440	3.2	<0.30	<0.30	1.2	1,400	-	-	-	-	-	MW-3	
	08/20/98			19.33	0.00	114.18	300	5.8	1.5	<0.30	1.4	6,200	-	-	-	-	-	MW-3	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.34	0.00	111.17	390	3.7	0.96	<0.30	1.1	11,000	-	-	-	-	-	MW-3	
	06/15/99			22.92	0.00	110.59	140	<0.30	0.32	<0.30	<0.60	1,700	-	-	-	-	-	MW-3	
	09/01/99			23.11	0.00	110.40	180	0.63	<0.30	0.35	0.86	<10	-	-	-	-	-	MW-3	
	11/30/99			23.78	0.00	109.73	270	<0.30	<0.30	<0.30	2.0	2,100	-	-	-	-	-	MW-3	
	03/23/00			24.16	0.00	109.35	380	35 J	<40	28 J	<80	1,100	730 J	<100	<100	<100	-	MW-3	
	04/17/00			24.04	0.00	109.47	3,300	330	<4.7	230	<41	2,200	1,500 J	<25	<28	<34	-	MW-3	
	07/11/00			24.06	0.00	109.45	5,000	680	38 J	260	63 J	2,900	2,100	<10	<11	22 J	-	MW-3	
	10/11/00			24.65	0.00	108.86	6,200	770	42 J	530	110 J	2,400	2,200	<10	<11	<14	-	MW-3	
	01/04/01			25.40	0.00	108.11	10,000	960	280 J	720	520 J	2,000	2,000	<10	<11	15 J	-	MW-3	
	04/19/01			23.61	0.00	109.90	2,900	190	<20	260	68 J	1,000	1,000	<40	<40	<40	-	MW-3	
	07/09/01			23.66	0.00	109.85	3,500	160	<10	260	39 J	1,100	1,800	<20	<20	<20	-	MW-3	
	10/02/01			25.34	0.00	108.17	4,000	160	97 J	250	180	910	1,800	<40	<40	<40	-	MW-3	
	01/03/02			26.81	0.00	106.70	6,900	320	610	480	1,100	730	1,000	<40	<40	<40	-	MW-3	
	04/02/02			26.53	0.00	106.98	4,600	300	260	460	600	640	700	<40	<40	<40	-	MW-3	
	08/23/02			25.70	0.00	107.81	2,100	130	72	180	150	170	180	<5.0	<5.0	1.8 J	-	MW-3	
	12/19/02			25.67	0.00	107.84	1,300	69	17	100	60	59	110	<5.0	<5.0	0.59 J	-	MW-3	
	02/06/03			25.92	0.00	107.59	820	72	13	78	46	54	72	<5.0	<5.0	0.66 J	<150	MW-3	
	05/20/03			24.33	0.00	109.18	85	4.3	1.4	6.2	4.3	12	28	<1.0	<1.0	<1.0	<50	MW-3	
	07/18/03			23.86	0.00	109.65	51	1.1 J	0.51 J	1.9 J	2.2 J	4.7 J	10 J	<5.0	<5.0	<5.0	<150	MW-3	
	11/21/03			24.13	0.00	109.38	120	1.6 J	0.57 J	3.1	2.7 J	4.5 J	9.4 J	<5.0	<5.0	<5.0	<150	MW-3	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		25.47	0.00	108.04	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	85	0.59 J	<2.0	1.5 J	<4.0	4.0 J	6.3 J	<5.0	<5.0	<5.0	<150	MW-3	
	09/09/04	DUP		-	-	-	34 J	0.41 J	<2.0	0.89 J	<4.0	3.8 J	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20040909	
	12/14/04			25.62	0.00	107.89	1,900	6.2	2.2	24	14	16	48 J	<5.0	<5.0	<5.0	<150	MW-3	
	03/02/05			21.38	0.00	112.13	26 J	<2.0	<2.0	<2.0	<4.0	3.0 J	<50	<5.0	<5.0	<5.0	<150	MW-3	

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Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-5	01/31/96	SPH	133.54	24.10	0.00	109.44	-	-	-	-	-	-	-	-	-	-	-	-	Purge sheen
	04/15/96	SPH		24.39	0.00	109.15	-	-	-	-	-	-	-	-	-	-	-	-	Purge sheen
	07/22/96	SPH		45.25	0.30	88.52	-	-	-	-	-	-	-	-	-	-	-	-	
	10/17/96	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/25/97	SPH		24.18	0.53	109.76	-	-	-	-	-	-	-	-	-	-	-	-	
	06/20/97	SPH		24.13	0.40	109.71	-	-	-	-	-	-	-	-	-	-	-	-	
	08/22/97	SPH		24.62	0.22	109.09	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97	SPH		25.07	0.09	108.54	-	-	-	-	-	-	-	-	-	-	-	-	
	03/18/98			20.25	0.00	113.29	39,000	4,000	7,400	920	6,700	2,000	-	-	-	-	-	MW-5	
	06/18/98			20.32	0.00	113.22	69,000	12,000	20,000	2,300	14,000	9,800	-	-	-	-	-	MW-5	
	08/20/98			19.66	0.00	113.88	71,000	13,000	20,000	2,000	13,000	11,000	-	-	-	-	-	MW-5	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.81	0.00	110.73	73,000	11,000	16,000	2,300	13,000	13,000	-	-	-	-	-	MW-5	
	06/15/99	SPH		23.09	sheen	110.45	70,000	9,300	12,000	2,000	12,000	6,400	-	-	-	-	-	MW-5	
	09/01/99	SPH		23.53	sheen	110.01	-	-	-	-	-	-	-	-	-	-	-	-	
	11/30/99	SPH		24.13	sheen	109.41	-	-	-	-	-	-	-	-	-	-	-	-	
	03/23/00	SPH		24.77	sheen	108.77	-	-	-	-	-	-	-	-	-	-	-	-	
	04/17/00	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/11/00	SPH		24.84	0.04	108.73	-	-	-	-	-	-	-	-	-	-	-	-	
	10/11/00	SPH		24.90	sheen	108.64	-	-	-	-	-	-	-	-	-	-	-	-	
	01/04/01	SPH		25.31	sheen	108.23	-	-	-	-	-	-	-	-	-	-	-	-	
	04/19/01	SPH		24.61	sheen	108.93	-	-	-	-	-	-	-	-	-	-	-	-	
	07/09/01	SPH		25.12	0.13	108.52	-	-	-	-	-	-	-	-	-	-	-	-	
	10/02/01	SPH		26.07	0.05	107.51	-	-	-	-	-	-	-	-	-	-	-	-	
	01/03/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04/02/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/23/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/19/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/06/03	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/20/03	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/18/03			24.39	0.00	109.15	37,000	1,200	1,900	2,000	15,000	5,800	9,900	<250	<250	61 J	<7,500	MW-5	
	11/21/03			24.80	0.00	108.74	29,000	1,100	620	1,500	11,000	5,500	7,500	<250	<250	58 J	<7,500	MW-5	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		25.92	0.00	107.62	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	4,100	11 J	7.8 J	33	330	160	2,300	<50	<50	<50	<1,500	MW-5	
	12/14/04			25.93	0.00	107.61	1,100	<4.0	<4.0	5.2	34	19	1,400	<10	<10	<10	<300	MW-5	
	03/02/05	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-6	01/31/96		134.50	23.90	0.00	110.60	1,300	<3.0	<3.0	<3.0	<6.0	-	-	-	-	-	-	MW-6	
	04/15/96			24.26	0.00	110.24	87	3.7	0.38	<0.30	<0.60	<10	-	-	-	-	-	MW-6	
	07/22/96			26.48	0.00	108.02	170	0.43	<0.30	0.67	<0.60	2,500	-	-	-	-	-	MW-6	
	10/17/96			26.96	0.00	107.54	91	<0.30	<0.30	<0.30	<0.60	2,300	-	-	-	-	-	MW-6	
	03/25/97			25.27	0.00	109.23	120	<0.30	<0.30	<0.30	<0.60	1,700	-	-	-	-	-	MW-6	
	06/20/97			24.90	0.00	109.60	<50	<0.30	<0.30	<0.30	<0.60	850	-	-	-	-	-	MW-6	
	08/22/97			25.70	0.00	108.80	<50	0.61	0.32	<0.30	<0.60	900	-	-	-	-	-	MW-6	
	11/17/97			26.25	0.00	108.25	<50	0.60	<0.5	<0.5	<1.0	1,000	-	-	-	-	-	MW-6	
	03/18/98			20.30	0.00	114.20	<50	<0.30	<0.30	<0.30	<0.60	200	-	-	-	-	-	MW-6	
	06/18/98			19.84	0.00	114.66	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-6	
	08/20/98			20.81	0.00	113.69	<50	0.33	<0.30	<0.30	<0.60	73	-	-	-	-	-	MW-6	
	11/18/98			22.14	0.00	112.36	<50	0.51	<0.30	<0.30	<0.60	110	-	-	-	-	-	MW-6	
	03/24/99			23.35	0.00	111.15	<50	<0.30	<0.30	<0.30	<0.60	190	-	-	-	-	-	MW-6	
	06/15/99			23.73	0.00	110.77	<50	<0.30	<0.30	<0.30	<0.60	210	-	-	-	-	-	MW-6	
	09/01/99			24.30	0.00	110.20	<50	<0.30	<0.30	<0.30	<0.60	360	-	-	-	-	-	MW-6	
	11/30/99			25.38	0.00	109.12	<50	0.45	<0.30	<0.30	<0.60	350	-	-	-	-	-	MW-6	
	03/23/00			26.20	0.00	108.30	27 J	<20	<20	<20	<40	840	<500	<50	<50	<50	-	MW-6	
	04/17/00			25.99	0.00	108.51	500	<1.1	<0.93	<1.8	<8.2	950	<5.0	<5.0	<5.7	<6.8	-	MW-6	
	07/11/00			25.81	0.00	108.69	250	<1.1	<0.93	<1.8	<8.2	1,100	72 J	<5.0	<5.7	<6.8	-	MW-6	
	10/11/00			26.62	0.00	107.88	390	3.6 J	<1.9	<3.6	<16	1,400	<100	<10	<11	<14	-	MW-6	
	01/04/01			27.30	0.00	107.20	480	1.2 J	1.4 J	<1.8	<8.2	1,500	<50	<5.0	<5.7	8.3 J	-	MW-6	
	04/19/01			25.10	0.00	109.40	120	<4.0	<4.0	<4.0	<4.0	240	<40	<8.0	<8.0	<8.0	-	MW-6	
	07/09/01			25.33	0.00	109.17	180	<4.0	<4.0	<4.0	<4.0	400	<40	<8.0	<8.0	<8.0	-	MW-6	
	10/02/01			26.18	0.00	108.32	190	<4.0	<4.0	<4.0	<4.0	440	<40	<8.0	<8.0	<8.0	-	MW-6	
	01/03/02			27.36	0.00	107.14	210	<10	<10	<10	<10	770	<100	<20	<20	<20	-	MW-6	
	04/02/02			27.63	0.00	106.87	1,500	<40	<40	<40	<40	3,100	<400	<80	<80	<80	-	MW-6	
	08/23/02			27.20	0.00	107.30	610	<20	1.4 J	<20	<40	4,700	1,500	<50	<50	22 J	-	MW-6	
	12/19/02			26.77	0.00	107.73	620	<20	<20	<20	<40	3,500	1,800	<50	<50	13 J	-	MW-6	
	02/06/03			26.80	0.00	107.70	1,600	<20	<20	<20	5.2 J	3,200	470 J	<50	<50	20 J	<1,500	MW-6	
	05/20/03			25.02	0.00	109.48	410	<0.5	<0.5	<0.5	<1.5	900	178 J	<1.0	<1.0	<1.0	<50	MW-6	
	07/18/03			24.30	0.00	110.20	290	<2.0	<2.0	<2.0	<4.0	1,000	200	<5.0	<5.0	4.2 J	<150	MW-6	
	11/21/03			23.84	0.00	110.66	700	<40	<40	<40	<80	2,000	1,700	<100	<100	<100	<3,000	MW-6	
	02/20/04			24.84	0.00	109.66	420	<20	<20	<20	<40	1,200	1,300	<50	<50	6.4 J	<1,500	MW-6	
	06/23/04		134.34	25.03	0.00	109.31	580	<20	<20	<20	<40	870	990	<50	<50	4.7 J	<1,500	MW-6	
	09/08/04	NS		25.42	0.00	108.92	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	90	<5.0	<5.0	<5.0	<10	220	430	<12	<12	0.98 J	<380	MW-6	
	12/14/04			25.56	0.00	108.78	300	<20	<20	<20	<40	670	1,200	<50	<50	<50	<1,500	MW-6	
	03/02/05			20.59	0.00	113.75	<50	<2.0	<2.0	<2.0	<4.0	5.1	8.9 J	<5.0	<5.0	<5.0	<150	MW-6	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-7	07/22/96		132.43	24.60	0.00	107.83	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	10/17/96			24.90	0.00	107.53	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/25/97			24.10	0.00	108.33	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/20/97			23.10	0.00	109.33	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	08/22/97			23.93	0.00	108.50	68	<0.30	1.6	<0.30	1.8	<10	-	-	-	-	-	MW-7	
	11/17/97			24.49	0.00	107.94	63	<0.5	<0.5	<0.5	<1.0	<10	-	-	-	-	-	MW-7	
	03/18/98			19.20	0.00	113.23	150	1.7	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/18/98			18.30	0.00	114.13	120	1.1	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	08/20/98			19.72	0.00	112.71	110	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	11/18/98			20.25	0.00	112.18	120	1.0	0.45	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/24/99			22.15	0.00	110.28	61	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/15/99			22.46	0.00	109.97	58	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	09/01/99			22.89	0.00	109.54	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	11/30/99			23.49	0.00	108.94	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/23/00			23.56	0.00	108.87	19 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	04/17/00			25.71	0.00	106.72	17 J	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	07/11/00			23.20	0.00	109.23	15 J	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	10/11/00			24.52	0.00	107.91	8.8 J	<0.11	0.20 J	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	01/04/01			25.24	0.00	107.19	9.5 J	<0.11	0.13 J	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	04/19/01			23.98	0.00	108.45	58 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	07/09/01			24.90	0.00	107.53	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	10/02/01			25.92	0.00	106.51	82 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	01/03/02			26.81	0.00	105.62	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	04/02/02			27.26	0.00	105.17	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	08/23/02			27.41	0.00	105.02	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	12/19/02			27.50	0.00	104.93	11 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	02/06/03			27.42	0.00	105.01	16 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	05/20/03			25.90	0.00	106.53	28 J	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-7	
	07/18/03			25.22	0.00	107.21	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	11/21/03			25.46	0.00	106.97	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	02/20/04			26.25	0.00	106.18	27 J	<2.0	0.42 J	<2.0	<4.0	<5.0	7.8 J	<5.0	<5.0	<5.0	<150	MW-7	
	06/23/04		132.55	26.11	0.00	106.44	<50	<2.0	<2.0	0.29 J	1.4 J	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	09/08/04	NS		25.64	0.00	106.91	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	3.9 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	12/14/04			26.26	0.00	106.29	<50	<2.0	<2.0	<2.0	<4.0	8.8	<50	<5.0	<5.0	<5.0	<150	MW-7	
	03/02/05			20.92	0.00	111.63	<50	<2.0	<2.0	<2.0	<4.0	21	<50	<5.0	<5.0	<5.0	<150	MW-7	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-8	07/22/96		134.65	24.40	0.00	110.25	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	10/17/96			23.78	0.00	110.87	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/25/97			23.60	0.00	111.05	<50	0.54	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/20/97			22.86	0.00	111.79	67	1.4	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	08/22/97			23.77	0.00	110.88	<50	<0.30	1.2	0.30	2.1	<10	-	-	-	-	-	MW-8	
	11/17/97			24.39	0.00	110.26	<50	<0.5	<0.5	<0.5	<1.0	<10	-	-	-	-	-	MW-8	
	03/18/98			19.58	0.00	115.07	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/18/98			19.48	0.00	115.17	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	08/20/98			20.03	0.00	114.62	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	11/18/98			21.55	0.00	113.10	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/24/99			22.25	0.00	112.40	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/15/99			22.13	0.00	112.52	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	09/01/99			22.78	0.00	111.87	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	11/30/99			23.20	0.00	111.45	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/23/00			23.68	0.00	110.97	<50	<2.0	<2.0	<2.0	<4.0	2.0 J	<50	<5.0	<5.0	<5.0	-	MW-8	
	04/17/00			23.25	0.00	111.40	10 J	<0.11	<0.093	<0.18	<0.82	2.2 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	07/11/00			23.62	0.00	111.03	<7.0	<0.11	<0.093	<0.18	<0.82	1.9 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	10/11/00			23.81	0.00	110.84	6.9 J	<0.11	<0.093	<0.18	<0.82	1.1 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	01/04/01			24.81	0.00	109.84	8.8 J	0.11 J	0.23 J	<0.18	<0.82	1.2 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	04/19/01			23.30	0.00	111.35	<50	<1.0	<1.0	<1.0	1.5	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	07/09/01			22.71	0.00	111.94	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	10/02/01			22.81	0.00	111.84	78 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	01/30/02			24.83	0.00	109.82	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	04/02/02			23.51	0.00	111.14	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	08/23/02			22.95	0.00	111.70	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-8	
	12/19/02			22.75	0.00	111.90	8.9 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-8	
	02/06/03			23.74	0.00	110.91	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	05/20/03			21.84	0.00	112.81	27 J	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-8	
	07/18/03			21.58	0.00	113.07	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	11/21/03			21.90	0.00	112.75	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	02/20/04			22.98	0.00	111.67	24 J	<2.0	0.54 J	<2.0	0.56 J	<5.0	8.2 J	<5.0	<5.0	<5.0	<150	MW-8	
	06/23/04		134.75	23.31	0.00	111.44	22 J	<2.0	<2.0	1.8 J	0.80 J	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	09/08/04	NS		23.34	0.00	111.41	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	12/14/04			23.42	0.00	111.33	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	03/02/05			19.23	0.00	115.52	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
Trip Blank	03/18/98		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	TB	
	06/18/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	08/20/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	11/18/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/24/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	06/15/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	09/01/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	11/30/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/23/00			-	-	-	11	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	04/17/00			-	-	-	<9.3	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	07/11/00			-	-	-	<7.0	<0.11	<0.093	<0.18	<0.82	<0.28	7.0	<0.50	<0.57	<0.68	-	Trip Blank	
	10/11/00			-	-	-	12	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	01/04/01			-	-	-	40	<0.11	0.14	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	04/19/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	07/09/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	10/02/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	01/03/02			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	04/02/02			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	08/23/02			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	12/19/02			-	-	-	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	02/06/03			-	-	-	11 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	05/20/03			-	-	-	7.5 J	<0.5	<0.5	<0.5	<1.5	<5.0	<50	<1.0	<1.0	<1.0	<50	Trip Blank	
	07/18/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	11/21/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
Trip Blank	02/20/04		-	-	-	-	<50	<2.0	0.45 J	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	06/23/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20040623	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20040909	
	12/14/04			-	-	-	32 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20041214	
	03/02/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20050302	

Notes:

GRO = Gasoline range organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
SPH = Separate phase hydrocarbons
TOC = Top of casing (surveyed)
Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness); assuming a specific gravity of 0.75 for SPH
ft-MSL = feet above mean sea level
µg/L = Micrograms per liter
< = Analyte was not detected above the specified method reporting limit
- = Not measured or analyzed
J = Estimated value (less than the method reporting limit and greater than or equal to the method detection limit)
Refer to the reports in which data was first presented for more information on historical data.

GRO analyzed by EPA Method 8015 Modified. The carbon chain range used for analysis since 2000 Quarter 1 is C4-C12.
BTEX and oxygenates analyzed by EPA Method 8260B since 2000 Quarter 1.
DRY = Well dry during gauging or purging; not sampled
DUP = Duplicate sample
INA = Well inaccessible; not sampled
NS = Well not sampled
Purge sheen = Sheen was observed during purging of the scheduled sampling; well not sampled
SPH = Well not sampled due to the presence of separate phase hydrocarbons (SPH)

TABLE 8
SUMMARY OF ENHANCED FLUID RECOVERY (EFR) DATA (Discontinued)
ATLANTIC RICHFIELD COMPANY STATION NO. 0069
9922 SOUTH FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Date	Well ID	Volume of Groundwater Removed (gallons)	Volume of LPH Removed (gallons)	Depth to Groundwater (feet)	Depth to Product (feet)	Thickness of Product (feet)	COMMENTS
10/04/04	MW-1	30.00	0.00	24.86	--	--	
11/05/04		32.00	0.00	26.46	--	--	
12/10/04		50.00	0.00	24.24	--	--	
07/08/04	MW-2	80.00	0.00	24.31	--	--	
08/16/04		27.00	0.00	24.87	--	--	
09/15/04		51.00	0.00	24.52	--	--	
02/28/03	MW-5	0.00	0.00	--	--	--	Dry
03/20/03		10.00	0.00	23.80	--	--	
04/08/03		0.00	0.00	--	--	--	Dry
05/12/03		0.00	0.00	--	--	--	Dry
06/20/03		2.00	0.00	--	--	--	
07/11/03		1.00	0.00	24.46	--	--	
08/15/03		5.00	0.00	24.25	--	--	
09/12/03		0.00	0.00	23.75	--	--	
10/10/03		4.00	0.00	24.35	--	--	
11/19/03		46.00	0.00	30.51	--	--	
12/18/03		60.00	0.00	24.09	--	--	
01/07/04		12.00	0.00	24.42	--	--	
01/21/04		14.00	0.00	24.59	--	--	
02/04/04		--	--	--	--	--	
02/28/03	MW-6	8.00	0.00	27.47	--	--	
03/20/03		40.00	0.00	25.92	--	--	
04/08/03		19.00	0.00	25.72	--	--	
05/12/03		21.00	0.00	32.03	--	--	
06/20/03		24.00	0.00	32.00	--	--	
07/11/03		25.00	0.00	24.37	--	--	
08/15/03		50.00	0.00	24.11	--	--	
09/12/03		0.00	0.00	24.26	--	--	
10/10/03		40.00	0.00	23.63	--	--	
11/19/00		31.00	0.00	23.91	--	--	
12/18/03		65.00	0.00	25.27	--	--	
01/07/04		65.00	0.00	25.57	--	--	
01/21/04		75.00	0.00	25.78	--	--	
02/04/04		40.00	0.00	29.96	--	--	
05/06/04		26.00	0.00	24.72	--	--	
06/10/04		28.00	0.00	25.01	--	--	
10/04/04		24.00	0.00	24.28	--	--	
11/05/04		27.00	0.00	27.56	--	--	
12/10/04		75.00	0.00	25.54	--	--	
03/03/04	MW-7	26.25	0.00	25.00	--	--	
04/08/04		40.00	0.00	25.07	--	--	
05/06/04		25.00	0.00	26.84	--	--	
07/08/04		120.00	0.00	25.78	--	--	
08/16/04		70.00	0.00	25.73	--	--	
09/15/04		116.00	0.00	25.74	--	--	
Total gallons recovered:		**1504.25**	**0.00**				

Notes:
* 1 gallon = 128 ounces
* Liquid phase hydrocarbon (LPH) recovered via overpurging.
* Approximately 2.21 gallons of LPH has been recovered prior to February 28, 2003.

APPENDIX A

Laboratory Report and Chain-Of-Custody Document

Del Mar Analytical

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LABORATORY REPORT

Prepared For: SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project: ARCO 0069, Los Angeles

Sampled: 03/02/05
Received: 03/03/05
Issued: 03/15/05 12:40

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 applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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 4°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: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOC0351-01	MW-1	Water
IOC0351-02	MW-2	Water
IOC0351-03	MW-3	Water
IOC0351-04	MW-6	Water
IOC0351-05	MW-7	Water
IOC0351-06	MW-8	Water
IOC0351-07	DUP-0069-20050302	Water
IOC0351-08	TB-0069-20050302	Water

Reviewed By:

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

Del Mar Analytical

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles
Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOC0351-01 (MW-1 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C10001	120	250	**2300**	5	03/10/05	03/10/05	
Surrogate: 4-BFB (FID) (65-140%)					*94 %*				
Sample ID: IOC0351-02 (MW-2 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C06022	22	50	**48**	1	03/06/05	03/07/05	J,DX
Surrogate: 4-BFB (FID) (65-140%)					*83 %*				
Sample ID: IOC0351-03 (MW-3 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C10001	24	50	**26**	1	03/10/05	03/10/05	J,DX
Surrogate: 4-BFB (FID) (65-140%)					*96 %*				
Sample ID: IOC0351-04 (MW-6 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C06022	22	50	ND	1	03/06/05	03/07/05	
Surrogate: 4-BFB (FID) (65-140%)					*87 %*				
Sample ID: IOC0351-05 (MW-7 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C10001	24	50	ND	1	03/10/05	03/10/05	
Surrogate: 4-BFB (FID) (65-140%)					*93 %*				
Sample ID: IOC0351-06 (MW-8 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C10001	24	50	ND	1	03/10/05	03/10/05	
Surrogate: 4-BFB (FID) (65-140%)					*93 %*				
Sample ID: IOC0351-07 (DUP-0069-20050302 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C10001	24	50	**45**	1	03/10/05	03/10/05	J,DX
Surrogate: 4-BFB (FID) (65-140%)					*101 %*				
Sample ID: IOC0351-08 (TB-0069-20050302 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5C13022	24	50	ND	1	03/13/05	03/13/05	
Surrogate: 4-BFB (FID) (65-140%)					*86 %*				

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOC0351-01 (MW-1 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05013	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05013	0.25	2.0	**62**	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05013	0.36	2.0	**4.6**	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05013	0.52	2.0	**120**	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05013	0.24	2.0	**29**	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05013	0.52	4.0	**150**	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05013	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05013	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05013	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05013	0.32	5.0	**1.9**	1	03/05/05	03/05/05	J,DX
tert-Butanol (TBA)	EPA 8260B	5C05013	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05013	100	150	ND	1	03/05/05	03/05/05	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*107 %*				
Sample ID: IOC0351-02 (MW-2 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C07017	0.28	2.0	ND	1	03/07/05	03/07/05	
Ethylbenzene	EPA 8260B	5C07017	0.25	2.0	ND	1	03/07/05	03/07/05	
Toluene	EPA 8260B	5C07017	0.36	2.0	ND	1	03/07/05	03/07/05	
m,p-Xylenes	EPA 8260B	5C07017	0.52	2.0	ND	1	03/07/05	03/07/05	
o-Xylene	EPA 8260B	5C07017	0.24	2.0	ND	1	03/07/05	03/07/05	
Xylenes, Total	EPA 8260B	5C07017	0.52	4.0	ND	1	03/07/05	03/07/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C07017	0.25	5.0	ND	1	03/07/05	03/07/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C07017	0.28	5.0	ND	1	03/07/05	03/07/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C07017	0.33	5.0	ND	1	03/07/05	03/07/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C07017	0.32	5.0	ND	1	03/07/05	03/07/05	
tert-Butanol (TBA)	EPA 8260B	5C07017	3.1	50	ND	1	03/07/05	03/07/05	
Ethanol	EPA 8260B	5C07017	100	150	ND	1	03/07/05	03/07/05	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*96 %*				

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles
Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOC0351-03 (MW-3 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	**3.0**	1	03/05/05	03/05/05	J,DX
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*112 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				
Sample ID: IOC0351-04 (MW-6 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	**5.1**	1	03/05/05	03/05/05	
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	**8.9**	1	03/05/05	03/05/05	ID, J,DX
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles
Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOC0351-05 (MW-7 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	**21**	1	03/05/05	03/05/05	
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*116 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				
Sample ID: IOC0351-06 (MW-8 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	ND	1	03/05/05	03/05/05	
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles
Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOC0351-07 (DUP-0069-20050302 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	ND	1	03/05/05	03/05/05	
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*116 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				
Sample ID: IOC0351-08 (TB-0069-20050302 - Water)					**Sampled: 03/02/05**				
Reporting Units: ug/l									
Benzene	EPA 8260B	5C05010	0.28	2.0	ND	1	03/05/05	03/05/05	
Ethylbenzene	EPA 8260B	5C05010	0.25	2.0	ND	1	03/05/05	03/05/05	
Toluene	EPA 8260B	5C05010	0.36	2.0	ND	1	03/05/05	03/05/05	
m,p-Xylenes	EPA 8260B	5C05010	0.52	2.0	ND	1	03/05/05	03/05/05	
o-Xylene	EPA 8260B	5C05010	0.24	2.0	ND	1	03/05/05	03/05/05	
Xylenes, Total	EPA 8260B	5C05010	0.52	4.0	ND	1	03/05/05	03/05/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5C05010	0.25	5.0	ND	1	03/05/05	03/05/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5C05010	0.28	5.0	ND	1	03/05/05	03/05/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5C05010	0.33	5.0	ND	1	03/05/05	03/05/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5C05010	0.32	5.0	ND	1	03/05/05	03/05/05	
tert-Butanol (TBA)	EPA 8260B	5C05010	3.1	50	ND	1	03/05/05	03/05/05	
Ethanol	EPA 8260B	5C05010	100	150	ND	1	03/05/05	03/05/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				

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Project Manager

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Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C06022 Extracted: 03/06/05											
Blank Analyzed: 03/06/2005 (5C06022-BLK1)											
GRO (C4 - C12)	ND	50	22	ug/l							
Surrogate: 4-BFB (FID)	*8.78*			*ug/l*	*10.0*		*88*	*65-140*			
LCS Analyzed: 03/06/2005 (5C06022-BS1)											
GRO (C4 - C12)	634	50	22	ug/l	800		79	70-140			
Surrogate: 4-BFB (FID)	*27.0*			*ug/l*	*30.0*		*90*	*65-140*			
Matrix Spike Analyzed: 03/06/2005 (5C06022-MS1)						**Source: IOB2118-03**					
GRO (C4 - C12)	226	50	22	ug/l	220	26	91	60-140			
Surrogate: 4-BFB (FID)	*10.2*			*ug/l*	*10.0*		*102*	*65-140*			
Matrix Spike Dup Analyzed: 03/06/2005 (5C06022-MSD1)						**Source: IOB2118-03**					
GRO (C4 - C12)	230	50	22	ug/l	220	26	93	60-140	2	20	
Surrogate: 4-BFB (FID)	*10.4*			*ug/l*	*10.0*		*104*	*65-140*			
Batch: 5C10001 Extracted: 03/10/05											
Blank Analyzed: 03/10/2005 (5C10001-BLK1)											
GRO (C4 - C12)	ND	50	24	ug/l							
Surrogate: 4-BFB (FID)	*9.06*			*ug/l*	*10.0*		*91*	*65-140*			
LCS Analyzed: 03/10/2005 (5C10001-BS1)											
GRO (C4 - C12)	624	50	24	ug/l	800		78	70-140			
Surrogate: 4-BFB (FID)	*27.3*			*ug/l*	*30.0*		*91*	*65-140*			
Matrix Spike Analyzed: 03/10/2005 (5C10001-MS1)						**Source: IOC0350-01RE1**					
GRO (C4 - C12)	212	50	24	ug/l	220	ND	96	60-140			
Surrogate: 4-BFB (FID)	*9.52*			*ug/l*	*10.0*		*95*	*65-140*			

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Received: 03/03/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C10001 Extracted: 03/10/05											
Matrix Spike Dup Analyzed: 03/10/2005 (5C10001-MSD1)						**Source: IOC0350-01RE1**					
GRO (C4 - C12)	191	50	24	ug/l	220	ND	87	60-140	10	20	
Surrogate: 4-BFB (FID)	*9.03*			*ug/l*	*10.0*		*90*	*65-140*			
Batch: 5C13022 Extracted: 03/03/05											
Blank Analyzed: 03/13/2005 (5C13022-BLK1)											
GRO (C4 - C12)	ND	50	24	ug/l							
Surrogate: 4-BFB (FID)	*8.48*			*ug/l*	*10.0*		*85*	*65-140*			
LCS Analyzed: 03/13/2005 (5C13022-BS1)											
GRO (C4 - C12)	681	50	24	ug/l	800		85	70-140			
Surrogate: 4-BFB (FID)	*28.1*			*ug/l*	*30.0*		*94*	*65-140*			
Matrix Spike Analyzed: 03/13/2005 (5C13022-MS1)						**Source: IOC0346-12**					
GRO (C4 - C12)	214	50	24	ug/l	220	ND	97	60-140			
Surrogate: 4-BFB (FID)	*10.4*			*ug/l*	*10.0*		*104*	*65-140*			
Matrix Spike Dup Analyzed: 03/13/2005 (5C13022-MSD1)						**Source: IOC0346-12**					
GRO (C4 - C12)	203	50	24	ug/l	220	ND	92	60-140	5	20	
Surrogate: 4-BFB (FID)	*9.85*			*ug/l*	*10.0*		*98*	*65-140*			

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Project Manager

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Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C05010 Extracted: 03/05/05											
Blank Analyzed: 03/05/2005 (5C05010-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*28.5*			*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
LCS Analyzed: 03/05/2005 (5C05010-BS1)											
Benzene	24.7	2.0	0.28	ug/l	25.0		99	70-120			
Ethylbenzene	26.3	2.0	0.25	ug/l	25.0		105	80-120			
Toluene	25.6	2.0	0.36	ug/l	25.0		102	75-120			
m,p-Xylenes	51.3	2.0	0.52	ug/l	50.0		103	75-120			
o-Xylene	25.6	2.0	0.24	ug/l	25.0		102	75-125			
Xylenes, Total	76.9	4.0	0.52	ug/l	75.0		103	75-125			
Di-isopropyl Ether (DIPE)	25.8	5.0	0.25	ug/l	25.0		103	65-135			
Ethyl tert-Butyl Ether (ETBE)	23.7	5.0	0.28	ug/l	25.0		95	60-140			
tert-Amyl Methyl Ether (TAME)	24.4	5.0	0.33	ug/l	25.0		98	60-140			
Methyl-tert-butyl Ether (MTBE)	22.7	5.0	0.32	ug/l	25.0		91	55-145			
tert-Butanol (TBA)	151	50	3.1	ug/l	125		121	70-140			
Ethanol	196	150	100	ug/l	250		78	35-165			
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C05010 Extracted: 03/05/05											
Matrix Spike Analyzed: 03/05/2005 (5C05010-MS1)						**Source: IOC0344-02**					
Benzene	25.2	2.0	0.28	ug/l	25.0	ND	101	70-120			
Ethylbenzene	26.6	2.0	0.25	ug/l	25.0	ND	106	70-130			
Toluene	25.9	2.0	0.36	ug/l	25.0	ND	104	70-120			
m,p-Xylenes	51.4	2.0	0.52	ug/l	50.0	ND	103	65-130			
o-Xylene	25.3	2.0	0.24	ug/l	25.0	ND	101	65-125			
Xylenes, Total	76.6	4.0	0.52	ug/l	75.0	ND	102	65-135			
Di-isopropyl Ether (DIPE)	26.9	5.0	0.25	ug/l	25.0	ND	108	65-140			
Ethyl tert-Butyl Ether (ETBE)	26.5	5.0	0.28	ug/l	25.0	ND	106	60-140			
tert-Amyl Methyl Ether (TAME)	29.2	5.0	0.33	ug/l	25.0	ND	117	55-145			
Methyl-tert-butyl Ether (MTBE)	28.7	5.0	0.32	ug/l	25.0	ND	115	50-155			
tert-Butanol (TBA)	201	50	3.1	ug/l	125	70	105	65-145			
Ethanol	307	150	100	ug/l	250	ND	123	35-165			
Surrogate: Dibromofluoromethane	*28.6*			*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Dup Analyzed: 03/05/2005 (5C05010-MSD1)						**Source: IOC0344-02**					
Benzene	24.1	2.0	0.28	ug/l	25.0	ND	96	70-120	4	20	
Ethylbenzene	25.6	2.0	0.25	ug/l	25.0	ND	102	70-130	4	20	
Toluene	24.8	2.0	0.36	ug/l	25.0	ND	99	70-120	4	20	
m,p-Xylenes	49.3	2.0	0.52	ug/l	50.0	ND	99	65-130	4	25	
o-Xylene	23.9	2.0	0.24	ug/l	25.0	ND	96	65-125	6	20	
Xylenes, Total	73.2	4.0	0.52	ug/l	75.0	ND	98	65-135	5	20	
Di-isopropyl Ether (DIPE)	24.3	5.0	0.25	ug/l	25.0	ND	97	65-140	10	25	
Ethyl tert-Butyl Ether (ETBE)	22.3	5.0	0.28	ug/l	25.0	ND	89	60-140	17	25	
tert-Amyl Methyl Ether (TAME)	22.6	5.0	0.33	ug/l	25.0	ND	90	55-145	25	30	
Methyl-tert-butyl Ether (MTBE)	20.8	5.0	0.32	ug/l	25.0	ND	83	50-155	32	25	*RA*
tert-Butanol (TBA)	294	50	3.1	ug/l	125	70	179	65-145	38	25	*LM,AY, BA,AY*
Ethanol	398	150	100	ug/l	250	ND	159	35-165	26	30	
Surrogate: Dibromofluoromethane	*27.5*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			

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Sampled: 03/02/05
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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C05013 Extracted: 03/05/05											
Blank Analyzed: 03/05/2005 (5C05013-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	0.270	2.0	0.25	ug/l							*J,DX*
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 03/05/2005 (5C05013-BS1)											
Benzene	22.1	2.0	0.28	ug/l	25.0		88	70-120			
Ethylbenzene	22.1	2.0	0.25	ug/l	25.0		88	80-120			
Toluene	22.5	2.0	0.36	ug/l	25.0		90	75-120			
m,p-Xylenes	43.0	2.0	0.52	ug/l	50.0		86	75-120			
o-Xylene	21.8	2.0	0.24	ug/l	25.0		87	75-125			
Xylenes, Total	64.8	4.0	0.52	ug/l	75.0		86	75-125			
Di-isopropyl Ether (DIPE)	21.3	5.0	0.25	ug/l	25.0		85	65-135			
Ethyl tert-Butyl Ether (ETBE)	20.5	5.0	0.28	ug/l	25.0		82	60-140			
tert-Amyl Methyl Ether (TAME)	20.6	5.0	0.33	ug/l	25.0		82	60-140			
Methyl-tert-butyl Ether (MTBE)	20.8	5.0	0.32	ug/l	25.0		83	55-145			
tert-Butanol (TBA)	125	50	3.1	ug/l	125		100	70-140			
Ethanol	250	150	100	ug/l	250		100	35-165			
Surrogate: Dibromofluoromethane	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			

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Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C05013 Extracted: 03/05/05											
Matrix Spike Analyzed: 03/05/2005 (5C05013-MS1)						**Source: IOC0270-01**					
Benzene	22.0	2.0	0.28	ug/l	25.0	ND	88	70-120			
Ethylbenzene	22.6	2.0	0.25	ug/l	25.0	ND	90	70-130			
Toluene	22.2	2.0	0.36	ug/l	25.0	ND	89	70-120			
m,p-Xylenes	44.2	2.0	0.52	ug/l	50.0	ND	88	65-130			
o-Xylene	22.3	2.0	0.24	ug/l	25.0	ND	89	65-125			
Xylenes, Total	66.5	4.0	0.52	ug/l	75.0	ND	89	65-135			
Di-isopropyl Ether (DIPE)	22.8	5.0	0.25	ug/l	25.0	ND	91	65-140			
Ethyl tert-Butyl Ether (ETBE)	21.8	5.0	0.28	ug/l	25.0	ND	87	60-140			
tert-Amyl Methyl Ether (TAME)	22.1	5.0	0.33	ug/l	25.0	ND	88	55-145			
Methyl-tert-butyl Ether (MTBE)	21.8	5.0	0.32	ug/l	25.0	ND	87	50-155			
tert-Butanol (TBA)	134	50	3.1	ug/l	125	ND	107	65-145			
Ethanol	292	150	100	ug/l	250	ND	117	35-165			
Surrogate: Dibromofluoromethane	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 03/05/2005 (5C05013-MSD1)						**Source: IOC0270-01**					
Benzene	21.9	2.0	0.28	ug/l	25.0	ND	88	70-120	1	20	
Ethylbenzene	22.3	2.0	0.25	ug/l	25.0	ND	89	70-130	1	20	
Toluene	22.2	2.0	0.36	ug/l	25.0	ND	89	70-120	0	20	
m,p-Xylenes	43.4	2.0	0.52	ug/l	50.0	ND	87	65-130	2	25	
o-Xylene	22.0	2.0	0.24	ug/l	25.0	ND	88	65-125	1	20	
Xylenes, Total	65.4	4.0	0.52	ug/l	75.0	ND	87	65-135	2	20	
Di-isopropyl Ether (DIPE)	22.9	5.0	0.25	ug/l	25.0	ND	92	65-140	0	25	
Ethyl tert-Butyl Ether (ETBE)	22.2	5.0	0.28	ug/l	25.0	ND	89	60-140	2	25	
tert-Amyl Methyl Ether (TAME)	22.8	5.0	0.33	ug/l	25.0	ND	91	55-145	3	30	
Methyl-tert-butyl Ether (MTBE)	22.8	5.0	0.32	ug/l	25.0	ND	91	50-155	4	25	
tert-Butanol (TBA)	126	50	3.1	ug/l	125	ND	101	65-145	6	25	
Ethanol	248	150	100	ug/l	250	ND	99	35-165	16	30	
Surrogate: Dibromofluoromethane	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C07017 Extracted: 03/07/05											
Blank Analyzed: 03/07/2005 (5C07017-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
LCS Analyzed: 03/07/2005 (5C07017-BS1)											
Benzene	24.1	2.0	0.28	ug/l	25.0		96	70-120			
Ethylbenzene	23.9	2.0	0.25	ug/l	25.0		96	80-120			
Toluene	23.4	2.0	0.36	ug/l	25.0		94	75-120			
m,p-Xylenes	47.8	2.0	0.52	ug/l	50.0		96	75-120			
o-Xylene	23.6	2.0	0.24	ug/l	25.0		94	75-125			
Xylenes, Total	71.4	4.0	0.52	ug/l	75.0		95	75-125			
Di-isopropyl Ether (DIPE)	24.6	5.0	0.25	ug/l	25.0		98	65-135			
Ethyl tert-Butyl Ether (ETBE)	26.4	5.0	0.28	ug/l	25.0		106	60-140			
tert-Amyl Methyl Ether (TAME)	28.2	5.0	0.33	ug/l	25.0		113	60-140			
Methyl-tert-butyl Ether (MTBE)	27.7	5.0	0.32	ug/l	25.0		111	55-145			
tert-Butanol (TBA)	117	50	3.1	ug/l	125		94	70-140			
Ethanol	214	150	100	ug/l	250		86	35-165			
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	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5C07017 Extracted: 03/07/05											
Matrix Spike Analyzed: 03/07/2005 (5C07017-MS1)						**Source: IOC0268-14**					
Benzene	25.4	2.0	0.28	ug/l	25.0	ND	102	70-120			
Ethylbenzene	26.9	2.0	0.25	ug/l	25.0	ND	108	70-130			
Toluene	25.8	2.0	0.36	ug/l	25.0	ND	103	70-120			
m,p-Xylenes	53.1	2.0	0.52	ug/l	50.0	ND	106	65-130			
o-Xylene	26.3	2.0	0.24	ug/l	25.0	ND	105	65-125			
Xylenes, Total	79.3	4.0	0.52	ug/l	75.0	ND	106	65-135			
Di-isopropyl Ether (DIPE)	24.6	5.0	0.25	ug/l	25.0	ND	98	65-140			
Ethyl tert-Butyl Ether (ETBE)	24.8	5.0	0.28	ug/l	25.0	ND	99	60-140			
tert-Amyl Methyl Ether (TAME)	27.0	5.0	0.33	ug/l	25.0	ND	108	55-145			
Methyl-tert-butyl Ether (MTBE)	57.7	5.0	0.32	ug/l	25.0	24	135	50-155			
tert-Butanol (TBA)	143	50	3.1	ug/l	125	6.3	109	65-145			
Ethanol	267	150	100	ug/l	250	ND	107	35-165			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 03/07/2005 (5C07017-MSD1)						**Source: IOC0268-14**					
Benzene	25.0	2.0	0.28	ug/l	25.0	ND	100	70-120	2	20	
Ethylbenzene	26.4	2.0	0.25	ug/l	25.0	ND	106	70-130	2	20	
Toluene	24.6	2.0	0.36	ug/l	25.0	ND	98	70-120	5	20	
m,p-Xylenes	51.1	2.0	0.52	ug/l	50.0	ND	102	65-130	4	25	
o-Xylene	24.6	2.0	0.24	ug/l	25.0	ND	98	65-125	7	20	
Xylenes, Total	75.7	4.0	0.52	ug/l	75.0	ND	101	65-135	5	20	
Di-isopropyl Ether (DIPE)	24.7	5.0	0.25	ug/l	25.0	ND	99	65-140	0	25	
Ethyl tert-Butyl Ether (ETBE)	25.2	5.0	0.28	ug/l	25.0	ND	101	60-140	2	25	
tert-Amyl Methyl Ether (TAME)	26.8	5.0	0.33	ug/l	25.0	ND	107	55-145	1	30	
Methyl-tert-butyl Ether (MTBE)	58.8	5.0	0.32	ug/l	25.0	24	139	50-155	2	25	
tert-Butanol (TBA)	134	50	3.1	ug/l	125	6.3	102	65-145	6	25	
Ethanol	227	150	100	ug/l	250	ND	91	35-165	16	30	
Surrogate: Dibromofluoromethane	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

17461Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

DATA QUALIFIERS AND DEFINITIONS

BA,AY	The RPD exceeded the method control limit due to sample matrix effects
ID	Analyte identified by RT & presence of single mass ion
IO	Contract limits originate from BP-GCLN Technical Requirements
J,DX	EPA Flag - Estimated value,Value < lowest standard (MQL), but > than MDL
LM,AY	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
RA	RPD exceeds limit due to matrix interf.; % recovs. within limits
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 GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF Parlabel
GRO (C4 - C12)	GROC4C12

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Lisa Moreno

Project ID: ARCO 0069, Los Angeles

Report Number: IOC0351

Sampled: 03/02/05
Received: 03/03/05

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EPA 8015B	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.

Del Mar Analytical, Irvine
Wendy Kirkeeng For Chris Roberts
Project Manager

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Page____ of ____

Chain of Custody Record

Project Name: Q1-2005 GROUNDWATER
BP BU/AR Region/Enfos Segment: RETAIL (Coastal +C.LA)
State or Lead Regulatory Agency:
Requested Due Date (03/16/05): Standard TAT

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Del Mar Analytical	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International, Inc
Address:	17461 Derian Ave Ste 100	BP/AR Facility Address:	9922 Figueroa St. S, L.A., CA	Address:	290 Conejo Ridge Ave Sute 200
	Irvine, CA 92614	Site Lat/Long:			Thousand Oaks, CA 91361
Lab PM:	Chris Roberts	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.00069.00
Tele/Fax:	949-261-1022	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	LISA MORENO/ DON INDERMILL
BP/AR PM Contact:	Ravie Kolhatkar	Provision or RCOP (circle one)		Tele/Fax:	805-230-1266/805-230-1277
Address:	4 Centerpoint Dr.	Phase/WBS:	3- WATER	Report Type & QC Level:	Standard
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard @secor.com
Tele/Fax:	(714) 670-3061	Cost Element:	Sub Contracted Cost	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO C4-C12 (8015)	Requested Analysis: BTEX/OXY/ET (8260)	Sample Point Lat/Long and Comments
	Per Shawn Buckman 3/7/05 @1151 Tonda + Peter	WSD					10C0351									
1	MW-1	1505	03/02/05		x							x		x	x	
2	MW-2	1255			x							x		x	x	
3	MW-3	1520			x							x		x	x	
4	~~MW-5~~				~~x~~							~~x~~		~~x~~	~~x~~	
5	MW-6	1245			x							x		x	x	
6	MW-7	1115			x							x		x	x	
7	MW-8	1010			x							x		x	x	
8	DUP-0069-20050302	—			x							x		x	x	
9	TB-0069-20050302	—			x							x		x	x	
10																

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Tonda Dickerson						
Sampler's Company: SECOR		3/3/05	10:30	DMAI	3/3/05	10:30
Shipment Date:	DMAI	3/3/05	1810			
Shipment Method:						
Shipment Tracking No:					3/3	1810

Special Instructions:

Custody Seals In Place Yes____ No X Temp Blank Yes____ No X Cooler Temperature on Receipt 4 °F/C Trip Blank Yes ✓ No____

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BP COC Rev. 4 10/1/04

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

January 13, 2005

STL LOT NUMBER: **E5A070309**
PO/CONTRACT: G0C9Y-0001

Don Indermill
SECOR International Inc
290 Conejo Ridge Ave
Suite 200
Thousand Oaks, CA 91361

Dear Don Indermill,

This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on January 7, 2005. These samples are associated with your ARCO Site #0069 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000014 pages.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Beth Riley
Project Manager

cc: Project File

ARCO SITE #0069

E5A070309 Page 1 of 1

Chain of Custody Record

Project Name: 2005-Q1 O&M
BP BU/AR Region/Enfos Segment: Retail (Coastal + CLA)
State or Lead Regulatory Agency: LARWQCB
Requested Due Date (mm/dd/yy):

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

ab Name:	STL	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International Inc.
ddress:	1721 South Grand Ave	BP/AR Facility Address:	9922 S. Figueroa, Los Angeles	Address:	290 Concjo Ridge Ave, Suite 200
	Santa Ana, CA 92705	Site Lat/Long:			Thousand Oaks, CA 91361
ab PM:	Beth Riley	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.U0069.
ele/Fax:	714-258-8610 x 347	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	Don Indermill
P/AR PM Contact:	Jack Oman	Provision or RCOP (circle one)		Tele/Fax:	(805) 230-1266 x 269
ddress:	6 Centerpointe Dr.	Phase/WBS:	System O&M - Phase 3	Report Type & QC Level:	LARWQCB
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard@secor.com
ele/Fax:	714-730-1898	Cost Element:	Subcontracted Costs	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

ab Bottle Order No:

tem No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: BTEX 8021	BTEX/TPH	BTEX/Oxy/TPH	EPA 8260	EPA 8270	VFH C4-C12(TO-3)	BTEX/OXY(TO-14A)	Fixed Gases (D1946)			Sample Point Lat/Long and Comments
1	Sys Eff	1152	1-6			X		1												X	X	X			
2	Sys Inf	1156	1-6			X		1												X	X	X			
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Tony Mickelson		1-7		SIL	1-7-05	11:00
Sampler's Company: SECOR		1-7-05	13:00	SIL	1/7/05	1300
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

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

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04

2

E5A070309

SECOR International Inc

Client Sample ID: SYS EFF

GC/MS Volatiles

Lot-Sample #...:	E5A070309-001	Work Order #...:	G192C1AD	Matrix.....:	AE
Date Sampled...:	01/06/05	Date Received..:	01/07/05		
Prep Date.....:	01/07/05	Analysis Date..:	01/07/05		
Prep Batch #...:	5010467				
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.0011 JDX**	**0.0020**	**ppm(v/v)**	**0.00080**
tert-Butyl alcohol	ND	0.010	ppm(v/v)	0.0010
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Ethylbenzene	**0.00055 JDX**	**0.0020**	**ppm(v/v)**	**0.00050**
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	0.00050
Toluene	**0.0033 JDX**	**0.0050**	**ppm(v/v)**	**0.00050**
m-Xylene & p-Xylene	**0.0026**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.0011 JDX**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.0036**	**0.0020**	**ppm(v/v)**	**0.00080**

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...: E5A070309-001 Work Order #...: G192C1AA Matrix.....: AE
Date Sampled...: 01/06/05 Date Received..: 01/07/05
Prep Date.....: 01/07/05 Analysis Date..: 01/07/05
Prep Batch #...: 5010259
Dilution Factor: 1
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.052**	**0.010**	**%(v/v)**	**0.0020**
Carbon monoxide	ND	0.0010	%(v/v)	0.00030
Methane	**0.00021**	**0.00020**	**%(v/v)**	**0.000060**
Nitrogen	**76**	**1.0**	**%(v/v)**	**0.70**
Oxygen	**21**	**0.10**	**%(v/v)**	**0.030**

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...:	E5A070309-001	Work Order #...:	G192C1AE	Matrix.....:	AE
Date Sampled...:	01/06/05	Date Received..:	01/07/05		
Prep Date.....:	01/07/05	Analysis Date..:	01/07/05		
Prep Batch #...:	5007435				
Dilution Factor:	1				
Analyst ID.....:	358011	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	0.31 JDX	1.0	ppm(v/v)	0.30

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS INF

GC/MS Volatiles

Lot-Sample #...: E5A070309-002 Work Order #...: G192F1AD Matrix.....: AE
Date Sampled...: 01/06/05 Date Received..: 01/07/05
Prep Date.....: 01/07/05 Analysis Date..: 01/07/05
Prep Batch #...: 5010467
Dilution Factor: 10
Analyst ID.....: 101605 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	0.089	0.020	ppm(v/v)	0.0080
tert-Butyl alcohol	0.031 JDX	0.10	ppm(v/v)	0.010
Tert-amyl methyl ether	ND	0.020	ppm(v/v)	0.0020
Ethyl-t-Butyl Ether (ETBE)	ND	0.020	ppm(v/v)	0.0020
Ethylbenzene	0.58	0.020	ppm(v/v)	0.0050
Diisopropyl Ether (DIPE)	ND	0.020	ppm(v/v)	0.0020
Methyl tert-butyl ether (MTBE)	0.14	0.020	ppm(v/v)	0.0050
Toluene	0.43	0.050	ppm(v/v)	0.0050
m-Xylene & p-Xylene	4.5	0.020	ppm(v/v)	0.010
o-Xylene	2.3	0.020	ppm(v/v)	0.0060
Xylenes (total)	6.9	0.020	ppm(v/v)	0.0080

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL), but > MDL.

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...:	E5A070309-002	Work Order #...:	G192F1AA	Matrix.....:	AE
Date Sampled...:	01/06/05	Date Received..:	01/07/05		
Prep Date.....:	01/07/05	Analysis Date..:	01/07/05		
Prep Batch #...:	5010259				
Dilution Factor:	1				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	0.62	0.010	%(v/v)	0.0020
Carbon monoxide	ND	0.0010	%(v/v)	0.00030
Methane	0.0061	0.00020	%(v/v)	0.000060
Nitrogen	77	1.0	%(v/v)	0.70
Oxygen	21	0.10	%(v/v)	0.030

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...: E5A070309-002 Work Order #...: G192F1AE Matrix.....: AE
Date Sampled...: 01/06/05 Date Received..: 01/07/05
Prep Date.....: 01/07/05 Analysis Date..: 01/07/05
Prep Batch #...: 5007435
Dilution Factor: 1
Analyst ID.....: 358011 Instrument ID..: GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	100	1.0	ppm(v/v)	0.30

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5A070309 **Work Order #...:** G2DF51AA **Matrix.....:** AIR
MB Lot-Sample #: M5A100000-467

Prep Date.....: 01/07/05 **Instrument ID..:** MSB
Analysis Date..: 01/07/05 **Prep Batch #...:** 5010467
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5A070309
MB Lot-Sample #: M5A100000-259

Work Order #...: G2CLL1AA
Prep Date.....: 01/07/05
Prep Batch #...: 5010259
Analyst ID.....: 101605

Matrix.....: AIR
Instrument ID..: GC3

Analysis Date..: 01/07/05
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5A070309 **Work Order #...:** G2AAK1AA **Matrix.....:** AIR
MB Lot-Sample #: M5A070000-435

Prep Date.....: 01/07/05 **Instrument ID..:** GC7
Analysis Date..: 01/07/05 **Prep Batch #...:** 5007435
Dilution Factor: 1

Analyst ID.....: 358011

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5A070309 Work Order #...: G2DF51AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5A100000-467 G2DF51AD-LCSD
Prep Date.....: 01/07/05 Analysis Date..: 01/07/05
Prep Batch #...: 5010467
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	0.0500	0.0472	ppm(v/v)	94		EPA-21 TO-14A
	0.0500	0.0476	ppm(v/v)	95	0.88	EPA-21 TO-14A
tert-Butyl alcohol	0.250	0.179	ppm(v/v)	72		EPA-21 TO-14A
	0.250	0.179	ppm(v/v)	72	0.22	EPA-21 TO-14A
Tert-amyl methyl ether	0.0500	0.0503	ppm(v/v)	101		EPA-21 TO-14A
	0.0500	0.0505	ppm(v/v)	101	0.37	EPA-21 TO-14A
Ethanol	0.250	0.269	ppm(v/v)	108		EPA-21 TO-14A
	0.250	0.267	ppm(v/v)	107	0.82	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE)	0.0500	0.0373	ppm(v/v)	75		EPA-21 TO-14A
	0.0500	0.0369	ppm(v/v)	74	0.94	EPA-21 TO-14A
Ethylbenzene	0.0500	0.0519	ppm(v/v)	104		EPA-21 TO-14A
	0.0500	0.0517	ppm(v/v)	103	0.42	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	0.0500	0.0434	ppm(v/v)	87		EPA-21 TO-14A
	0.0500	0.0432	ppm(v/v)	86	0.46	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0500	0.0535	ppm(v/v)	107		EPA-21 TO-14A
	0.0500	0.0524	ppm(v/v)	105	1.9	EPA-21 TO-14A
Toluene	0.0500	0.0488	ppm(v/v)	98		EPA-21 TO-14A
	0.0500	0.0489	ppm(v/v)	98	0.24	EPA-21 TO-14A
m-Xylene & p-Xylene	0.100	0.107	ppm(v/v)	107		EPA-21 TO-14A
	0.100	0.107	ppm(v/v)	107	0.18	EPA-21 TO-14A
o-Xylene	0.0500	0.0548	ppm(v/v)	110		EPA-21 TO-14A
	0.0500	0.0537	ppm(v/v)	107	2.0	EPA-21 TO-14A
Xylenes (total)	0.150	0.162	ppm(v/v)	108		EPA-21 TO-14A
	0.150	0.161	ppm(v/v)	107	0.55	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5A070309 **Work Order #...:** G2CLL1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5A100000-259 G2CLL1AD-LCSD
Prep Date.....: 01/07/05 **Analysis Date..:** 01/07/05
Prep Batch #...: 5010259
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.03**	**%(v/v)**	**103**		**ASTM D1946**
	1.00	**1.03**	**%(v/v)**	**103**	**0.020**	**ASTM D1946**
Methane	**0.0500**	**0.0524**	**%(v/v)**	**105**		**ASTM D1946**
	0.0500	**0.0520**	**%(v/v)**	**104**	**0.62**	**ASTM D1946**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5A070309 Work Order #...: G2AAK1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5A070000-435 G2AAK1AD-LCSD
Prep Date.....: 01/07/05 Analysis Date..: 01/07/05
Prep Batch #...: 5007435
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	10.3	10.3 LW	ppm(v/v)	100		EPA-19 TO-3
	10.3	10.8 LW	ppm(v/v)	105	4.0	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantited against gasoline.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

March 15, 2005

STL LOT NUMBER: **E5C110346**
PO/CONTRACT: GEM-6-21909

DON INDERMILL
SECOR International Inc
290 Conejo Ridge Ave
Suite 200
Thousand Oaks, CA 91361

Dear DON INDERMILL,

This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on March 10, 2005. These samples are associated with your ARCO #69 project.

STL Los Angeles certifies that the test results provided in this report meet all the requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA/E87652.

This report shall not be reproduced except in full, without the written approval of the laboratory.

000015

This report contains _____ pages.

CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria.

If you have any questions, please feel free to call me at 714.258.8610.

Sincerely,

Sabina Sudoko
Project Manager
CC: Project File

ARCO SITE #69

E5C110346

Page 1 of 1

Chain of Custody Record

Project Name: 2005-Q1 O&M
BP BU/AR Region/Enfos Segment: Retail (Coastal + CLA)
State or Lead Regulatory Agency: LARWQCB
Requested Due Date (mm/dd/yy): 3-13-05

On-site Time: 1100	Temp: 74
Off-site Time: 1600	Temp: 78
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed: None	Direction: None

ab Name:	STL	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International Inc.
ddress:	1721 South Grand Ave	BP/AR Facility Address:	9922 S. Figueroa, Los Angeles	Address:	290 Conejo Ridge Ave, Suite 200
	Santa Ana, CA 92705	Site Lat/Long:			Thousand Oaks, CA 91361
ab PM:	Sabina Sudoko	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.U0069.
ele/Fax:	(714)258-8610	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	Don Indermill
P/AR PM Contact:	Jack Oman	Provision or RCOP (circle one)		Tele/Fax:	(805) 230-1266 x 269
ddress:	6 Centerpointe Dr.	Phase/WBS:	System O&M - Phase 3	Report Type & QC Level:	LARWQCB
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard@secor.com
ele/Fax:	714-730-1898	Cost Element:	Subcontracted Costs	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

ab Bottle Order No:

em o.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: BTEX 8021	BTEX/TPH	BTEX/Oxy/TPH	EPA 8260	EPA 8270	VFH C4-C12(TO-3)	BTEX/OXY(TO-14A)	Fixed Gases (D1946)			Sample Point Lat/Long and Comments
1	Sys Inf	1159	3-10			X		1												X	X	X			VP-INF
2	Sys Eff	1156	3-11			X		1												X	X	X			VP-EFF
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
ampler's Name: Tony Nicholson						
ampler's Company: Secor	/ Secor	3-10		/	3/10/05	1011
ipment Date:		3/10	1700		3/10	1740
ipment Method:						
ipment Tracking No:						

ecial Instructions:

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

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04

3

E5C110346

SECOR International Inc

Client Sample ID: SYS INF

GC/MS Volatiles

Lot-Sample #...: E5C110346-001 Work Order #...: G53531AC Matrix.....: AE
Date Sampled...: 03/10/05 11:59 Date Received..: 03/10/05 17:40
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5073292 Analysis Time..: 15:10
Dilution Factor: 2
Analyst ID.....: 101605 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	ND	0.020	ppm(v/v)	0.0020
Tert-amyl methyl ether	ND	0.0040	ppm(v/v)	0.00040
Diisopropyl Ether (DIPE)	ND	0.0040	ppm(v/v)	0.00040
Ethyl-t-Butyl Ether (ETBE)	ND	0.0040	ppm(v/v)	0.00040
Benzene	ND	0.0040	ppm(v/v)	0.0016
Toluene	**0.0056 JDX**	**0.010**	**ppm(v/v)**	**0.0010**
Ethylbenzene	**0.071**	**0.0040**	**ppm(v/v)**	**0.0010**
m-Xylene & p-Xylene	**0.83**	**0.0040**	**ppm(v/v)**	**0.0020**
o-Xylene	**0.53**	**0.0040**	**ppm(v/v)**	**0.0012**
Xylenes (total)	**1.4**	**0.0040**	**ppm(v/v)**	**0.0020**
Methyl tert-butyl ether (MTBE)	ND	0.0040	ppm(v/v)	0.0010

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...: E5C110346-001 Work Order #...: G53531AD Matrix.....: AE
Date Sampled...: 03/10/05 11:59 Date Received..: 03/10/05 17:40
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5070502 Analysis Time..: 15:05
Dilution Factor: 1
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	0.22	0.010	%(v/v)	0.0020
Oxygen	22	0.20	%(v/v)	0.030
Nitrogen	77	1.0	%(v/v)	0.70
Methane	0.00026	0.00020	%(v/v)	0.000060
Carbon monoxide	ND	0.0010	%(v/v)	0.00030

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...: E5C110346-001 Work Order #...: G53531AA Matrix.....: AE
Date Sampled...: 03/10/05 11:59 Date Received..: 03/10/05 17:40
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5070536 Analysis Time..: 11:50
Dilution Factor: 1
Analyst ID.....: 358011 Instrument ID..: GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	9.7	1.0	ppm(v/v)	0.30

SECOR International Inc

Client Sample ID: SYS EFF

GC/MS Volatiles

Lot-Sample #...: E5C110346-002 Work Order #...: G53581AC Matrix.....: AE
Date Sampled...: 03/10/05 11:56 Date Received..: 03/10/05 17:40
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5073292 Analysis Time..: 15:44
Dilution Factor: 1
Analyst ID.....: 101605 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	ND	0.010	ppm(v/v)	0.0010
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Benzene	**0.0012 JDX**	**0.0020**	**ppm(v/v)**	**0.00080**
Toluene	**0.0038 JDX**	**0.0050**	**ppm(v/v)**	**0.00050**
Ethylbenzene	**0.00080 JDX**	**0.0020**	**ppm(v/v)**	**0.00050**
m-Xylene & p-Xylene	**0.0085**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.0053**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.014**	**0.0020**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	0.00050

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...: E5C110346-002 Work Order #...: G53581AD Matrix.....: AE
Date Sampled...: 03/10/05 11:56 Date Received..: 03/10/05 17:40
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5070502 Analysis Time..: 14:38
Dilution Factor: 1
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	0.061	0.010	%(v/v)	0.0020
Oxygen	22	0.20	%(v/v)	0.030
Nitrogen	77	1.0	%(v/v)	0.70
Methane	0.00028	0.00020	%(v/v)	0.000060
Carbon monoxide	0.00039 JDX	0.0010	%(v/v)	0.00030

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...:	E5C110346-002	Work Order #...:	G53581AA	Matrix.....:	AE
Date Sampled...:	03/10/05 11:56	Date Received..:	03/10/05 17:40		
Prep Date.....:	03/11/05	Analysis Date..:	03/11/05		
Prep Batch #...:	5070536	Analysis Time..:	11:30		
Dilution Factor:	1				
Analyst ID.....:	358011	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	0.44 JDX	1.0	ppm(v/v)	0.30

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value< lowest standard (MQL). but > MDL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5C110346
MB Lot-Sample #: M5C140000-292

Work Order #...: G56N21AA

Matrix.....: AIR

Prep Date.....: 03/11/05

Analysis Time..: 13:03

Analysis Date..: 03/11/05

Prep Batch #...: 5073292

Instrument ID..: MSA

Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5C110346 **Work Order #...:** G541E1AA **Matrix.....:** AIR
MB Lot-Sample #: M5C110000-502

Prep Date.....: 03/11/05 **Analysis Time..:** 11:02
Analysis Date..: 03/11/05 **Prep Batch #...:** 5070502 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.20	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5C110346
MB Lot-Sample #: M5C110000-536

Work Order #...: G544R1AA
Prep Date.....: 03/11/05
Prep Batch #...: 5070536
Analyst ID.....: 358011

Matrix.....: AIR
Analysis Time..: 10:49
Instrument ID..: GC7

Analysis Date..: 03/11/05
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5C110346 Work Order #...: G56N21AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5C140000-292 G56N21AD-LCSD
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5073292 Analysis Time..: 11:56
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
tert-Butyl alcohol	0.250	0.226	ppm(v/v)	90		EPA-21 TO-14A
	0.250	0.226	ppm(v/v)	91	0.13	EPA-21 TO-14A
Tert-amyl methyl ether	0.0500	0.0408	ppm(v/v)	81		EPA-21 TO-14A
	0.0500	0.0406	ppm(v/v)	81	0.29	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE)	0.0500	0.0426	ppm(v/v)	85		EPA-21 TO-14A
	0.0500	0.0425	ppm(v/v)	85	0.23	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	0.0500	0.0422	ppm(v/v)	84		EPA-21 TO-14A
	0.0500	0.0422	ppm(v/v)	84	0.070	EPA-21 TO-14A
Benzene	0.0500	0.0453	ppm(v/v)	91		EPA-21 TO-14A
	0.0500	0.0444	ppm(v/v)	89	2.0	EPA-21 TO-14A
Toluene	0.0500	0.0475	ppm(v/v)	95		EPA-21 TO-14A
	0.0500	0.0474	ppm(v/v)	95	0.23	EPA-21 TO-14A
Ethylbenzene	0.0500	0.0486	ppm(v/v)	97		EPA-21 TO-14A
	0.0500	0.0482	ppm(v/v)	96	0.74	EPA-21 TO-14A
m-Xylene & p-Xylene	0.100	0.105	ppm(v/v)	105		EPA-21 TO-14A
	0.100	0.102	ppm(v/v)	101	3.1	EPA-21 TO-14A
o-Xylene	0.0500	0.0518	ppm(v/v)	104		EPA-21 TO-14A
	0.0500	0.0504	ppm(v/v)	101	2.8	EPA-21 TO-14A
Xylenes (total)	0.150	0.156	ppm(v/v)	104		EPA-21 TO-14A
	0.150	0.152	ppm(v/v)	101	3.0	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0500	0.0480	ppm(v/v)	96		EPA-21 TO-14A
	0.0500	0.0478	ppm(v/v)	96	0.48	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5C110346 Work Order #...: G541E1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5C110000-502 G541E1AD-LCSD
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5070502 Analysis Time..: 10:13
Dilution Factor: 1 Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	0.987	%(v/v)	99		ASTM D1946
	1.00	0.991	%(v/v)	99	0.40	ASTM D1946
Methane	0.0500	0.0518	%(v/v)	104		ASTM D1946
	0.0500	0.0517	%(v/v)	103	0.28	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5C110346 Work Order #...: G544R1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5C110000-536 G544R1AD-LCSD
Prep Date.....: 03/11/05 Analysis Date..: 03/11/05
Prep Batch #...: 5070536 Analysis Time..: 09:05
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	10.3	10.6 LW	ppm(v/v)	102		EPA-19 TO-3
	10.3	10.2 LW	ppm(v/v)	99	3.0	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantited against gasoline.

APPENDIX B

Groundwater Sampling Data Sheets

Subjective and Well -Head Evaluation Form

Project No.: Q1-2005 Groundwater Location: Los Angeles Date: 3/2/2005

Station No.: 69 Field Technician: Shaun Day of Week: Wednesday

DTW ORDER	WELL ID	SURFICIAL SEAL	CONCRETE SEAL	LID SECURE	GASKET	LOCK	EXPANDING CAP	TOTAL DEPTH (feet)	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	DISSOLVED OXYGEN READING (mg/L)	COMMENTS
5	MW-1	Y	Y	Y	Y	Y	Y	37.70	20.43	Ø	0.65	
4	MW-2	Y	Y	Y	Y	Y	Y	32.80	~~20.43~~	Ø	~~0.65~~	DTW: 20.80 DO: 0.35 Aug
~~7~~	MW-3	Y	Y	Y	Y	Y	Y	37.68	21.38	Ø	0.54	
6	MW-5							27.00				Not Located ~~dup~~
3	MW-6	Y	Y	Y	Y	N	Sl. Cap	33.20	20.59	Ø	3.65	
2	MW-7	Y	Y	Y	Y	Y	Y	35.20	20.92	Ø	0.96	
1	MW-8	Y	Y	Y	Y	Y	Y	34.63	19.23	Ø	1.69	
										total Gal - 150		

Note: Use G=Good and P=poor for well condition

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-1
SAMPLER: Shaun	FACILITY NO: 69
DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 37.70	CALCULATED PURGE (gal): 34.54
DEPTH TO WATER (feet): 20.43	ACTUAL PURGE VOL (gal): 35.34
Standing Water in Casing (feet) 17.27 x 0.20= 3.454 + DTW 23.88 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/2/05 Start (2400 Hr.): 1228 End (2400 Hr.): 1319

Date Sampled: 3/2/05 Time (2400 Hr.): 1505 DTW @ Samp. Time: 22.44

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1): ~~DUP-MW-99~~

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1235	10	76.1	1106	7.95	clear	Trace	
1238	20	76.2	1182	7.91	"	"	
1319	~~35~~ 34	72.6	1126	8.18	"	"	
		Dry at 24 Gal					

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	~~Bailer (Teflon)~~
Submersible Pump	Bailer (Stainless Steel)	Dipper	(Bailer (Disposable Teflon))
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER: (VAC TRUCK)		OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY, NO SAMPLE COLLECTED: REVIEWED BY: DATE: ~~03/02/05~~ 3/7/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-2
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 32.80	CALCULATED PURGE (gal): 25.60
DEPTH TO WATER (feet): 20.80	ACTUAL PURGE VOL (gal): 26
Standing Water in Casing (feet) 12.80 x 0.20= 2.56 + DTW	=80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/2/05 Start (2400 Hr.): 1158 End (2400 Hr.): 1217

Date Sampled: 3/2/05 Time (2400 Hr.): 1255 DTW @ Samp. Time: 23.86

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1): Dup-0069-20050302

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1201	9	76.2	1580	8.17	cloudy	Light	
1205	18	73.9	1084	8.18	"	"	
1217	26	75.3	1057	8.13	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer ~~(Teflon)~~
Submersible Pump	Bailer (Stainless Steel)	Dipper	~~Bailer (Disposable Teflon)~~
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER:	VAC TRUCK	OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 8 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~03/02/05~~ 3/7/05

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-3
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 37.68	CALCULATED PURGE (gal): 82.60
DEPTH TO WATER (feet): 21.38	ACTUAL PURGE VOL (gal): 83
Standing Water in Casing (feet) 16.30 x 0.20= 3.26	+ DTW 24.64 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/2/05 Start (2400 Hr.): 1329 End (2400 Hr.): 1349

Date Sampled: 3/2/05 Time (2400 Hr.): 1520 DTW @ Samp. Time: 23.92

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1335	11	74.5	1034	7.77	Cloudy	Light	
1341	22	72.3	1041	8.09	"	"	
1349	33	70.4	1047	8.06	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	~~Bailer (Teflon)~~
Submersible Pump	Bailer (Stainless Steel)	Dipper	~~Bailer (Disposable Teflon)~~
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER:	VAC TRUCK	OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 14 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Amoreno DATE: ~~03/02/05~~ 3/7/05

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-6
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 33.20	CALCULATED PURGE (gal): 25.22
DEPTH TO WATER (feet): 20.59	ACTUAL PURGE VOL (gal): 26
Standing Water in Casing (feet) 12.61 x 0.20= 2.522 + DTW 23.11	=80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/2/05 Start (2400 Hr.): 1126 End (2400 Hr.): 1146

Date Sampled: 3/2/05 Time (2400 Hr.): 1245 DTW @ Samp. Time: 20.85

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1130	9	73.0	2650	7.96	Cloudy	Light	
1135	18	72.3	2580	8.02	"	"	
1146	26	73.4	2577	8.09	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED:

REVIEWED BY: Moreno DATE: ~~03/02/05~~ 3/7/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-7
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 35.20	CALCULATED PURGE (gal): 28-56
DEPTH TO WATER (feet): 20.97	ACTUAL PURGE VOL (gal): 29
Standing Water in Casing (feet) 14.28 x 0.20= 2.856 + DTW 23.77 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/7/05 Start (2400 Hr.): 1042 End (2400 Hr.): 1100
Date Sampled: 3/7/05 Time (2400 Hr.): 1115 DTW @ Samp. Time: 23-77

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1049	10	76.2	1256	8.15	Cloudy	Light	
1053	20	76.4	1359	8.03	"	"	
1100	29	75.2	1364	8.17	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER: VAC TRUCK		OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):
Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~03/02/05~~ 3/7/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2005 Groundwater	SAMPLE ID: MW-8
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 03/02/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 34.63	CALCULATED PURGE (gal): 30.80
DEPTH TO WATER (feet): 19.23	ACTUAL PURGE VOL (gal): 31
Standing Water in Casing (feet) 15.40 x 0.20= 3.08	+ DTW 22.31 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 3/2/05 Start (2400 Hr.): 0934 End (2400 Hr.): 0953
Date Sampled: 3/2/05 Time (2400 Hr.): 1010 DTW @ Samp. Time: 22.31

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
0938	10	71.6	1216	7.85	clear	Trace	
0943	20	72.9	1206	8.09	"	"	
0953	31	70.1	1158	8.19	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	~~Bailer (Disposable Teflon)~~
Redi-Flo2	Dedicated	Well Wizard	~~Dedicated~~
OTHER: VAC TRUCK		OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):
Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: DATE: 03/02/05 3/7/05

Atlantic Richfield Company No. # 66

Hr meter 15487.7

SECOR International, Incorporated
Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN Mark Hoot	Initials: DVB	Date: 1-5-05		Weekday: Wed		Time: 10:00 A	
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15481.7	Alarms: —			
UTILITIES	Gas Meter	cfm / therm	Electrical Meter	6056769	KWh		

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1400 °F		Catalyst/Outlet: 1471 °F				
Dilution Valve	Auto: 100%	%open	Manual:				%open
Blower	Amps: 27.8 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	130 scfm			Manifold Vacuum:	80	"H_2O	
Source Well Flow (Pitot Tube)	P: NA in H_2O	DP: NA in H_2O	Temp.: 1460 °F	Source Flow:	130	cfm	
Effluent Flow	P: NA in H_2O	DP: NA in H_2O	Temp.: 1471 °F	Effluent Flow:	[illegible]	scfm	
LEL Reading	Set %		PV				%
VES Process Concentrations	Influent w/dil: NA ppm		Influent w/o dil: NA ppm		Effluent NA		ppm
Monitoring Device	NA		Calibration (type/date) NA				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100							
MW-5	100							
MW-3	100							
MW-2	100							
V-4 Low	0							
V-4 High	0							
MW-1								
V-1 Low	100							
V-1 High	0							
V-1 Mid	0							
V-3 Low	0							
V-3 High	100							

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	(Yes)/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	empty	full	

Notes: List all activities, observations, recommendations

WIRED UP NEW METER. TURN SYSTEM ON FOR 15 HR. NEED UPDATE H/S P
FIRE EXTINGUISHER

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a *"(Monthly)"* note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Nickelson	Date: 1-6-05	Weekday: Thurs	Time: 1100			
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15506.6	Alarms:	None		
UTILITIES	Gas Meter	7398	cfm / therm	Electrical Meter	56471	KWh	

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1444 °F		Catalytic/Outlet: 1448 °F				
Dilution Valve	Auto: Closed %open		Manual: Closed %open				
Blower	Amps: 28.7 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum.: 140" "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 187 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: ppm	Influent w/o dil: 387 ppm	Effluent 4.6 ppm				
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane impact 1-6-05				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100%	140"	2106					
MW-5	100%	140"	667					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	100%	140"	43					
V-1 High	100%	140"	209					
V-1 Mid	100%	140"	56					
V-3 Low	100%	140"	58					
V-3 High	100%	140"	49					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF			Drums:	7 empty	full

Notes: List all activities, observations, recommendations

System was up Cleaned Compound and labeled Empty 55 Gallon Drums Prepared site for Audit.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date: 1-13-05	Weekday: Thurs	Time: 1:06			
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15542.9	Alarms: Blown fuse			
UTILITIES	Gas Meter	7594	cfm / therm	Electrical Meter	57324	KWh	

PARAGON SYSTEM OXIDIZER

Temperature	Process: °F		Catalytic/Outlet: °F				
Dilution Valve	Auto: %open		Manual: %open				
Blower	Amps: A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum: "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: ppm	Influent w/o dil: ppm	Effluent ppm				
Monitoring Device			Calibration (type/date) /				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6								
MW-5								
MW-3								
MW-2								
V-4 Low								
V-4 High								
MW-1								
V-1 Low								
V-1 High								
V-1 Mid								
V-3 Low								
V-3 High								

COMPLIANCE	
DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED	
VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/~~No~~	Influent w/o Dilutio	Yes/~~No~~	Effluent:	Yes/~~No~~
STATUS DEPARTURE:	ON/OFF		Drums:	7 empty	full	

Notes: List all activities, observations, recommendations

Main Breaker to sve system had Blown fuse locked out Breaker and ordered fuse will Replace ASAP.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date:	1-14-05	Weekday:	Fri	Time:	1100
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15542.9	Alarms:	Blown fuse		
UTILITIES	Gas Meter	7598 cfm / therm	Electrical Meter	57326 KWh			

PARAGON SYSTEM OXIDIZER

Temperature	Process: °F		Catalytic/Outlet: °F					
Dilution Valve	Auto: %open		Manual: %open					
Blower	Amps: A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No	
Process Flow	scfm		Manifold Vacuum.: "H_2O					
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: cfm				
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm				
LEL Reading	Set %		PV %					
VES Process Concentrations	Influent w/dil: ppm	Influent w/o dil: ppm	Effluent ppm					
Monitoring Device			Calibration (type/date) /					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6								
MW-5								
MW-3								
MW-2								
V-4 Low								
V-4 High								
MW-1								
V-1 Low								
V-1 High								
V-1 Mid								
V-3 Low								
V-3 High								

COMPLIANCE	
DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED	
VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	empty	full	

Notes: List all activities, observations, recommendations

Replaced fuse, and started system when auto Dilution is Closed system pulls to many Amps, all piping is 4 inch Galvinized I will order a Valve to install, to Bring in out side Air to Reduce Amps.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tom Nikolson	Date:	1-21-05	Weekday:	Fri	Time:	1111
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15543.2	Alarms:	0.25 AMP		
UTILITIES	Gas Meter	7603	cfm / therm	Electrical Meter	57324		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1450	°F	Catalytic/Outlet: 1455	°F			
Dilution Valve	Auto: Closed	%open	Manual: 1/4 open	%open			
Blower	Amps: 32.7	A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK? Yes/No
Process Flow		scfm	Manifold Vacuum.: 67"	"H_2O			
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 155	cfm		
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: N/A	scfm		
LEL Reading	Set %	PV %					
VES Process Concentrations	Influent w/dil: 2609 ppm	Influent w/o dil: N/A ppm	Effluent 0 ppm				
Monitoring Device	Mini RAE 2000	Calibration (type/date) Hexane 100ppm 1-21-05					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100%	67"	1191					
MW-5	100%	67"	415					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	open	67"	24					
V-1 High	Open	67"	129					
V-1 Mid	open	67"	47					
V-3 Low	Open	67"	52					
V-3 High	open	67"	38					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	2 empty	full	

Notes: List all activities, observations, recommendations

System was off, Installed Dilution valve on 1-20-05 on the end of the Manifold air pulling through valve was very loud ordered 4foot section of pipe to muffle noise installed and started system on 1-21-05, Parts Installed reduced Amps pulled By the Motor.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Nickelson	Date:	1-27-05	Weekday:	Thurs	Time:	11:00
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15685.0	Alarms:	None		
UTILITIES	Gas Meter	8251	cfm / therm	Electrical Meter	58137		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1440	°F	Catalytic/Outlet: 1446				°F
Dilution Valve	Auto: Closed	%open	Manual: 1/4 open				%open
Blower	Amps: 33.1	A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK? Yes/No
Process Flow	—	scfm			Manifold Vacuum:	67"	"H_2O
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F		Source Flow:	180	cfm
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F		Effluent Flow:	N/A	scfm
LEL Reading	Set — %		PV —				%
VES Process Concentrations	Influent w/dil: 294 ppm		Influent w/o dil: N/A ppm		Effluent 0		ppm
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane 100ppm 1-27				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100%	67"	1092					
MW-5	100%	67"	397					
MW-3	Closed	—	-					
MW-2	Closed	—	-					
V-4 Low	Closed	—	-					
V-4 High	Closed	-	-					
MW-1	Closed	—	-					
V-1 Low	Open	67"	56.1					
V-1 High	Open	67"	139					
V-1 Mid	Open	67"	52.6					
V-3 Low	Open	67"	60.4					
V-3 High	Open	67"	44.1					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF			Drums:	2 empty	full

Notes: List all activities, observations, recommendations

System was on with no problems

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mikelson	Date:	2-3-05	Weekday:	Thurs	Time:	10:06
ARRIVAL STATUS:	(ON)/OFF	OPERATING HOURS:	15853.2	Alarms:	Non		
UTILITIES	Gas Meter	9111	cfm / therm	Electrical Meter	59114		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1445	°F	Catalytic/Outlet: 1450	°F			
Dilution Valve	Auto: Closed	%open	Manual: 1/4 open	%open			
Blower	Amps: 33.7	A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK? (Yes)/No
Process Flow	–	scfm	Manifold Vacuum.: 71"	"H_2O			
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Source Flow: 191	cfm		
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Effluent Flow: N/A	scfm		
LEL Reading	Set – %	PV – %					
VES Process Concentrations	Influent w/dil: 311 ppm	Influent w/o dil: N/A ppm	Effluent 0 ppm				
Monitoring Device	Mini RAE 2000	Calibration (type/date) Hexane 100ppm 2-3					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100%	71"	947					
MW-5	100%	71"	361					
MW-3	Closed	–	–					
MW-2	Closed	–	–					
V-4 Low	Closed	–	–					
V-4 High	Closed	–	–					
MW-1	Closed	–	–					
V-1 Low	Open	71"	129					
V-1 High	Open	71"	196					
V-1 Mid	Open	71"	42.4					
V-3 Low	Open	71"	78.9					
V-3 High	Open	71"	52.7					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	(Yes)/No
Outlet Temperature >1400 °F	(Yes)/No
VES Outlet Concentration <20 PPMV?	(Yes)/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution (Yes)/No	Influent w/o Dilutio Yes/(No)	Effluent: (Yes)/No		
STATUS DEPARTURE:	(ON)/OFF	Drums:	2 empty	full	

Notes: List all activities, observations, recommendations

System was on with no problems took samples

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Nickolson	Date:	2-10-05	Weekday:	Thurs	Time:	1100
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15947.0	Alarms:	Blown fuse		
UTILITIES	Gas Meter	9586	cfm / therm	Electrical Meter	596607		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process:	°F	Catalytic/Outlet:	°F				
Dilution Valve	Auto:	%open	Manual:	%open				
Blower	Amps:	A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum:	"H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: cfm				
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm				
LEL Reading	Set %	PV %						
VES Process Concentrations	Influent w/dil: ppm	Influent w/o dil: ppm	Effluent ppm					
Monitoring Device		Calibration (type/date) /						

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6								
MW-5								
MW-3								
MW-2								
V-4 Low								
V-4 High								
MW-1								
V-1 Low								
V-1 High								
V-1 Mid								
V-3 Low								
V-3 High								

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	empty	full	

Notes: List all activities, observations, recommendations

System was off, with low temp alarm. Checked to see if system had Gas Pressure system did. tried to Purge system By holding the reset, system Blew the fuses. I will have the senior electrician Come out to Deal with the electrical Problems, all work Performed today was Performed safely.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony M. Jackson	Date:	2-17-05	Weekday:	Thurs	Time:	1055
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	15947.0	Alarms:			
UTILITIES	Gas Meter 9586	cfm / therm		Electrical Meter	59667		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: °F		Catalytic/Outlet: °F				
Dilution Valve	Auto: %open		Manual: %open				
Blower	Amps: A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum.: "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: ppm		Influent w/o dil: ppm		Effluent ppm		
Monitoring Device			Calibration (type/date) /				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6								
MW-5								
MW-3								
MW-2								
V-4 Low								
V-4 High								
MW-1								
V-1 Low								
V-1 High								
V-1 Mid								
V-3 Low								
V-3 High								

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	empty	full	

Notes: List all activities, observations, recommendations

System is off, waiting for parts to Repair. System will start system ASAP.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

CARLTON

ARCO SITE SPECIFIC ELECTRICAL SAFETY INSPECTION

Arco Facility # 0069 Date 2-24-05

Secor Job # [redacted] Technician DG / PB

Tighten Connections _____

Breaker sized correctly _____

Wire sized correctly _____

Properly grounded _____

Recommendations: Actions:

CHECK OUT MOTOR/BLOWER - TRIPS BREAKER.
Changed OVERLOAD TO AWG3 (28 Amps)
DID HAVE W65 (32 Amps)

MOTOR FLA IS 32

*NEED TO REPLACE 2 POLE BREAKER WITH A 70 AMP.
MOTOR IS 1Ø 230V 7½ HP 215T

MEGGED MOTOR - 0 Ω @ 250V
* NEED TO REPLACE MOTOR

SYSTEM IS LOCKED OUT TAGGED OUT

SECOR CARLTON

DATE 3-2-05
SHEET 1 OF 1

DAILY FIELD REPORT

Project Name: Arco 69 Project No.: Client:
Project Location:
Personnel on Site: Darrett Griffon
Equipment Working:

Weather: Wind Speed/Direction:
Approximate yardage moved today: Approximate yardage moved to date:

SUMMARY OF WORK IN PROGRESS OR COMPLETED:

INSPECTED INSTALLATION OF Motor - Completed by T.M. & J.T. - LOOKED GOOD.
TRIED TO START SYSTEM AND FOUND THAT THE High side of the
High/Low GAS SWITCH IS BAD. CARLTON IS ORDERING a REPLACEMENT.
WILL INSTALL WHEN IT ARRIVES.
MOTOR Full Load Amps are 32, I INSTALL OVERLOADS rated at 28 amps
EXTRA SAFETY FOR MOTOR.
MOTOR IS Pulling 18.2 AMPS @ 60" w.c.

SYSTEM IS OFF
NEED TO REPLACE
ANTUNES CONTROLS RHLGP-A High/Low GAS Switch

LABORATORY TESTING (indicate Mobile of Main Lab)

FIELD TECHNICIAN
CLIENT'S REPRESENTATIVE
CONTRACTOR'S REPRESENTATIVE

HOURS – Field Technician:(Reg) (Overtime) Mileage
Project Engineer/Geologist

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date:	3-10-05	Weekday:	Thurs	Time:	1100
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	16114.7	Alarms:	None		
UTILITIES	Gas Meter	0512	cfm / therm	Electrical Meter	60505		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1455 °F		Catalytic/Outlet: 1459 °F				
Dilution Valve	Auto: Close %open		Manual: 25% open %open				
Blower	Amps: 22.1 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	N/A scfm		Manifold Vacuum.: 60" "H_2O				
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Source Flow: 146 cfm			
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Effluent Flow: N/A scfm			
LEL Reading	Set N/A %		PV N/A %				
VES Process Concentrations	Influent w/dil: 479 ppm	Influent w/o dil: — ppm	Effluent 0.2 ppm				
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane 100ppm 3-10-05				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100	60"	1226					
MW-5	100	60"	418					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	100	60"	210					
V-1 Mid	100	60"	289					
V-3 Low	100	60"	101					
V-3 High	100	60"	30.5					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent: Yes/No
STATUS DEPARTURE:	ON/OFF		Drums: 2	empty	full

Notes: List all activities, observations, recommendations

System was on with no detrimental problems, filled out all saftey paperwork required to perform work for BP and secor. took samples for the month. left system on.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date:	3-17-05	Weekday:	Thurs	Time:	1015
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	16291.4	Alarms:	None		
UTILITIES	Gas Meter	1432	cfm / therm	Electrical Meter	61334		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1453	°F	Catalytic/Outlet: 1457	°F			
Dilution Valve	Auto: Closed	%open	Manual: 1/4 open	%open			
Blower	Amps: 19.7	A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK? Yes/No
Process Flow	N/A	scfm	Manifold Vacuum: 63"	"H_2O			
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Source Flow: 147	cfm		
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Effluent Flow: N/A	scfm		
LEL Reading	Set N/A %	PV N/A %					
VES Process Concentrations	Influent w/dil: 482 ppm	Influent w/o dil: 482 ppm	Effluent 0 ppm				
Monitoring Device	MiniRAE	Calibration (type/date) Hexane canister 3-17-05					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100%	63"	1004					
MW-5	100%	63"	398					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	100%	63"	198					
V-1 Mid	100%	63"	292					
V-3 Low	100%	63"	166					
V-3 High	100%	63"	55.1					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	2 empty	full	

Notes: List all activities, observations, recommendations

System was on with no problems

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date:	3-24-07	Weekday:	Thurs	Time:	1045
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	16449.9	Alarms:	none		
UTILITIES	Gas Meter	2373	cfm / therm	Electrical Meter	62167		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1451 °F		Catalytic/Outlet: 1455 °F				
Dilution Valve	Auto: Closed %open		Manual: 1/4 open %open				
Blower	Amps: 19.9 A		Lubricate? Yes/No	Change Oil? Yes/No		Belts OK?	Yes/No
Process Flow	N/A scfm			Manifold Vacuum.: 61" "H_2O			
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Source Flow: N/A cfm			
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Effluent Flow: N/A scfm			
LEL Reading	Set N/A %		PV N/A %				
VES Process Concentrations	Influent w/dil: 461 ppm		Influent w/o dil: diluted ppm	Effluent 0 ppm			
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane 100ppm 3-24				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100	61"	991					
MW-5	100	61"	299					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	100	61"	171					
V-1 Mid	100	61"	307					
V-3 Low	100	61"	176					
V-3 High	100	61"	35.2					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF			Drums: 2	empty	full

Notes: List all activities, observations, recommendations

System was on with no problems

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueron St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date:	3-31-05	Weekday:	Thurs	Time:	1110
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	16618.5	Alarms:	None		
UTILITIES	Gas Meter	3335	cfm / therm	Electrical Meter	62453		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1450 °F		Catalytic/Outlet: 1452 °F				
Dilution Valve	Auto: Closed %open		Manual: 1/4 open %open				
Blower	Amps: 19.2 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	N/A scfm		Manifold Vacuum.: 60" "H_2O				
Source Well Flow (Pitot Tube)	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Source Flow: N/A cfm			
Effluent Flow	P: N/A in H_2O	DP: N/A in H_2O	Temp.: N/A °F	Effluent Flow: N/A scfm			
LEL Reading	Set N/A %		PV N/A %				
VES Process Concentrations	Influent w/dil: N/A ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm				
Monitoring Device	Mini RAE2000		Calibration (type/date) Hexane 100ppm 3-31-05				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100	60"	826					
MW-5	100	60"	217					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	100	60"	179					
V-1 Mid	100	60"	323					
V-3 Low	100	60"	155					
V-3 High	100	60"	30.8					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent:	Yes/No
STATUS DEPARTURE:	ON/OFF			Drums:	2 empty	full

Notes: List all activities, observations, recommendations

System was up with no problems

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

APPENDIX C

Waste Disposal Documents

NO. 25276

NON-HAZARDOUS WASTE DATA FORM

16

TO BE COMPLETED BY GENERATOR

		GENERATING SITE
NAME	BP West Coast Products LLC	ARCO STATION # 0069
ADDRESS	P.O. Box 80249	9922 S. FIGUEROA AVENUE
CITY, STATE, ZIP	Rancho Santa Margarita, CA 92688	LOS ANGELES

PHONE NO. (949) 753-5820 SITE CONTACT PROFILE NO.

CONTAINERS: No. 1 GALLONS X 190 Gallons WEIGHT

TYPE: [X] TANK TRUCK [ ] DUMP TRUCK [ ] DRUMS [ ] CARTONS [ ] OTHER

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS GROUNDWATER SAMPLING

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	4.		
2. TPH		< 1%	5.		
3.			6. BESI # 108452		

PROPERTIES pH 7 [ ] SOLID [X] LIQUID [ ] SLUDGE [ ] SLURRY [ ] OTHER

HANDLING INSTRUCTIONS: WEAR APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart as Agent of BP West Coast Products LLC — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 03 / 02 / 05

TRANSPORTER

NAME NIETO AND SONS TRUCKING, INC. EPA I.D. NO.

ADDRESS 1281 BREA CANYON ROAD SERVICE ORDER NO.

CITY, STATE, ZIP BREA, CALIFORNIA 92821 PICK UP DATE 03 / 02 / 05

PHONE NO. (714) 990-6855

TRUCK, UNIT, I.D. NO. X 345 — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 03 / 02 / 05

FACILITY

NAME DeMenno Kerdoon EPA I.D. NO.

ADDRESS 2000 N. Alameda Street DISPOSAL METHOD [ ] LANDFILL [X] RECYCLER

CITY, STATE, ZIP Compton, CA 90222 Recycler

PHONE NO. 310-537-7100

Joe Ramos — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 03/11/05

GEN	OLD/NEW	L A	TONS
TRANS		S B	
C/Q		RT/CD	HWDF NONE

DISCREPANCY