



Delta
Environmental
Consultants, Inc.

February 1, 2001

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01 FEB 5 PM 2 30

Mr. Hernan Gomez
City of Oakland
Fire Services Agency
1605 Martin Luther King Jr. Way
Oakland, CA 94612

Subject: *Tank Basin, Product Line and Dispenser Island Sampling Results*
ARCO Station No. 6148
5131 Shattuck Avenue
Oakland, California
Delta Project No. D000-315

Dear Mr. Gomez:

Delta Environmental Consultants, Inc. (Delta) has been authorized by ARCO Products Company to conduct soil sampling during the removal and replacement of underground storage tanks (USTs), product distribution lines and product dispenser islands at ARCO Service Station No. 6148, located at 5131 Shattuck Avenue, Oakland, California (Figure 1). Site details are illustrated in Figure 2. This report summarizes the sampling activities and analytical results for samples collected during the UST, product line and dispenser removal, and upgrade activities. Field activities were performed in accordance with Delta's field methods and procedures outlined in Enclosure A.

Underground Storage Tank Removal

On November 14, 2000, three 12,000-gallon underground storage tanks were excavated and inspected upon removal. Paradiso Mechanical, Inc. was contracted by ARCO to obtain all necessary tank removal permits, make all required preliminary notifications and to clean, remove and dispose of the removed USTs. Ecology Control Industries transported the tanks to their facility in Richmond, California under a uniform hazardous waste manifest. Pertinent information concerning the UST removal activities is summarized below:

Lead Agency: City of Oakland, Fire Services Agency
Agency Contact Name: Hernan E. Gomez
Agency Phone Number: (510) 238-7253
UST Cleaning Contractor: Paradiso Mechanical, Inc.

Final Disposition of Rinseate: DeMenno Kerdoon, 2000 North Alameda Street, Compton, CA 90222
(Uniform Hazardous Waste Manifest included in Enclosure B)

Final Disposition of USTs: Ecology Control Industries, 255 Par Road, Richmond, CA 94801
(Uniform Hazardous Waste Manifest included in Enclosure B)

Soil Sampling Beneath Product Lines and Dispenser Island

A Delta representative was on site November 14, 2000 to conduct soil sampling during product line and dispenser removal and upgrade activities. A representative from the City of Oakland was on site to observe the sampling. Soil samples were collected beneath the dispensers following their removal. Dispenser soil samples DP-1 through DP-6 were collected at a depth of 2.0 feet below surface grade (bsg). Product line soil samples L-1 through L-10 were collected within the product line trench at depths ranging from 2.0 to 3.0 feet bsg. The soil sample locations are shown in Figure 3. All dispenser pump and product line soil samples were collected using an impact sampler equipped with brass liners, as outlined in Enclosure A.

Following collection, the soil sample tubes were capped with Teflon[®] tape and plastic caps and stored on ice until the time the samples were received at the laboratory. Samples were submitted to Sequoia Analytical Laboratory (Sequoia) in Sacramento, California for analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8020, and total petroleum hydrocarbons (TPH) as gasoline using EPA Method 8015 Modified. Detectable concentrations of MTBE were confirmed using EPA Method 8260. Soil sample analytical results are summarized in Table 1.

In soil samples collected during the November 14, 2000 sampling event, the laboratory reported detectable concentrations of benzene ranging from 0.014 milligrams per kilogram (mg/kg) in soil sample DP-1 to 0.0226 mg/kg in soil sample DP-4. The laboratory reported detectable concentrations of TPH as gasoline ranging from 1.15 mg/kg in L-10 to 2,390 mg/kg in DP-5. The laboratory reported detectable concentrations of MTBE ranging from 0.0835 mg/kg in DP-3 to 1.92 mg/kg in DP-4. A copy of the November 14, 2000 laboratory analytical report with chain-of-custody documentation is included in Enclosure C.

Soil Sampling Beneath Abandoned Product Lines and Dispenser Island

During the initial product line sampling investigation, a formerly abandoned dispenser island was discovered east of the station building. A Delta representative was on site December 22, 2000 to conduct soil sampling during excavation and removal of the abandoned product lines and dispenser island. A representative from the City of Oakland was on site to observe the sampling. Soil samples were collected beneath the dispensers following their removal. Dispenser soil samples DP-7 and DP-8 were collected at depths of 4.0 feet bsg, respectively. Product line soil samples PL-11 through PL-13 were collected within the product line trench at depths ranging from 4.0 to 5.0 feet bsg. The soil sample locations are shown in Figure 3. All dispenser pump and product line soil samples were collected using a hand auger and impact sampler equipped with brass liners, as outlined in Enclosure A.

Following collection, the soil sample tubes were capped with Teflon[®] tape and plastic caps and stored on ice until the time the samples were received at the laboratory. Samples were submitted to Sequoia for analysis of BTEX and MTBE using EPA Method 8020, and TPH as gasoline using EPA Method 8015 Modified. Detectable concentrations of MTBE were confirmed using EPA Method 8260. Soil sample analytical results are summarized in Table 1.

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City of Oakland
Fire Services Agency
February 1, 2001
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In soil samples collected during the December 22, 2000 sampling event, the laboratory reported no detectable concentrations of benzene, TPH as gasoline and MTBE. A copy of the December 22, 2000 laboratory analytical report with chain-of-custody documentation is included in Enclosure B.

Soil Sampling Beneath Underground Storage Tanks

A Delta representative was on-site November 14, 2000 to conduct soil sampling following the removal of three 12,000-gallon underground storage tanks. A representative from the City of Oakland was on-site to observe the sampling. Soil samples were collected from the North, South and Center of all three USTs following their removal. Tank samples T1-N, T1-Center, T1-S, T2-N, T2-Center, T2-S, T3-N, T3-Center and T3-S were collected at depths of 16.0 feet bsg. The soil sample locations are shown in Figure 2. All tank soil samples were collected using brass tubes directly from the backhoe as outlined in Enclosure A.

Following collection, the soil sample tubes were capped with Teflon[®] tape and plastic caps and stored on ice until the time the samples were received at the laboratory. Samples were submitted to Sequoia for analysis of BTEX and MTBE by EPA Method 8020, and TPH as gasoline using EPA Method 8015M. Detectable concentrations of MTBE were confirmed using EPA Method 8260. Soil sample analytical results are summarized in Table 1.

In the tank basin soil samples collected during the November 14, 2000 sampling event, the laboratory reported detectable concentrations of benzene ranging from 0.0175 milligrams per kilogram (mg/kg) in soil sample T2-Center to 0.0299 mg/kg in soil sample T2-N. The laboratory reported detectable concentrations of TPH as gasoline ranging from 14.8 mg/kg in T2-N to 4,470 mg/kg in T1-N. The laboratory reported detectable concentrations of MTBE ranging from 0.0103 mg/kg in T2-Center to 1.21 mg/kg in T2-N. A copy of the November 14, 2000 laboratory analytical report with chain-of-custody documentation is included in Enclosure B.

Soil Management and Stockpile Sampling

A total of approximately 552.42 tons (370 cubic yards) of overburden was excavated from the gasoline UST basin, dispensers and lines prior to removing the three tanks. Soil removed during excavation and removal activities was stockpiled on site for disposal profile analysis. Four-point composite soil samples from the stockpiles were collected in brass tubes for each approximate 50 cubic yards of soil and delivered to Sequoia for analyses. Soil samples were analyzed for BTEX, TPH as gasoline and lead to ensure results met waste acceptance guidelines at Forward Landfill in Manteca, California. Soil stockpile analytical results are presented in Table 2. A copy of the laboratory analytical report with chain-of-custody documentation is included in Enclosure D. The soil was removed from the site on December 1, 2000, January 4, 2001 and January 5, 2001 by Dillard Trucking, Inc. and transported to Forward Landfill. A copy of the completion letter for soil removed is included in Enclosure E.

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City of Oakland
Fire Services Agency
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Remarks/Signatures

The interpretations contained in this document represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydro-geologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Steve Meeks at (916) 536-2613.

DELTA ENVIRONMENTAL CONSULTANTS, INC.


Treyor L. Atkinson
Project Engineer


Steven W. Meeks, P.E.
Project Manager
California Registered Civil Engineer No. C057461

TLA (LRP003.315.doc)
Enclosures

cc: Mr. Paul Supple – ARCO Products Company
Ms. Susan Hugo - Alameda County Health Care Services



TABLE 1

SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

ARCO Service Station No. 6148
5131 Shattuck Boulevard
Oakland, California

Sample ID	Date	Depth (ft)	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE [8020] (mg/kg)	MTBE [8260] (mg/kg)
Dispenser Island Samples									
DP-1	11/14/00	2.0	5.32	0.014	0.0638	0.011	0.318	0.193	<0.5
DP-2	11/14/00	2.0	132	<0.1	0.265	0.86	14.5	1.63	1.02
DP-3	11/14/00	2.0	<1.0	<0.005	<0.005	<0.005	0.0203	0.0835	<0.5
DP-4	11/14/00	2.0	5.16	0.0226	0.134	0.0564	0.7999	1.92	1.57
DP-5	11/14/00	2.0	2,390	<1.0	1.18	8.68	140	<10	NA
DP-6	11/14/00	2.0	<2.0	<0.01	<0.01	<0.01	0.0165	<0.1	NA
DP-7	12/22/00	4.0	<1.0	<0.005	<0.005	<0.005	0.00581	<0.05	NA
DP-8	12/22/00	4.0	<1.0	<0.005	<0.005	<0.005	0.00834	<0.05	NA
Product Line Samples									
L-1	11/14/00	2.0	3.55	<0.005	<0.005	<0.005	0.0135	<0.05	NA
L-2	11/14/00	2.0	<2.0	<0.005	<0.005	<0.005	<0.005	0.504	0.608
L-3	11/14/00	2.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.1	NA
L-4	11/14/00	3.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.1	NA
L-5	11/14/00	2.0	<1.0	<0.005	<0.005	<0.005	0.0102	<0.05	NA
L-6	11/14/00	2.0	5.8	<0.005	0.0106	0.0184	0.0207	<0.05	NA
L-7	11/14/00	3.0	<2.0	<0.01	<0.01	<0.01	0.0237	<0.1	NA
L-8	11/14/00	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	NA
L-9	11/14/00	2.0	13.2	<0.005	0.00757	0.118	0.123	<0.05	NA
L-10	11/14/00	2.5	1.15	<0.005	<0.005	<0.005	<0.005	<0.05	NA
PL-11	12/22/00	5.0	<1.0	<0.005	<0.005	<0.005	0.00667	<0.05	NA
PL-12	12/22/00	4.0	<1.0	<0.005	<0.005	<0.005	0.00560	<0.05	NA
PL-13	12/22/00	4.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	NA
Tank Basin Samples									
T1-N	11/14/00	16.0	4,470	<2.0	105	73	404	<20	NA
T1-Center	11/14/00	16.0	961	<1.0	<1.0	<1.0	<1.0	<10	NA
T1-S	11/14/00	16.0	<200	<1.0	<1.0	<1.0	<1.0	<10	NA
T2-N	11/14/00	16.0	14.8	0.0299	0.025	0.2	0.655	1.21	1.13
T2-Center	11/14/00	16.0	33.1	0.0175	<0.01	<0.01	2.1	0.103	1.08
T2-S	11/14/00	16.0	<2.0	<0.01	<0.01	<0.01	0.0188	<0.1	NA
T3-N	11/14/00	16.0	<2.0	<0.01	<0.01	<0.01	0.0264	<0.1	NA
T3-Center	11/14/00	16.0	<2.0	<0.01	<0.01	<0.01	0.0102	<0.1	NA
T3-S	11/14/00	16.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.1	NA

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether

TABLE 2

SOIL STOCKPILE SAMPLE LABORATORY ANALYTICAL RESULTS

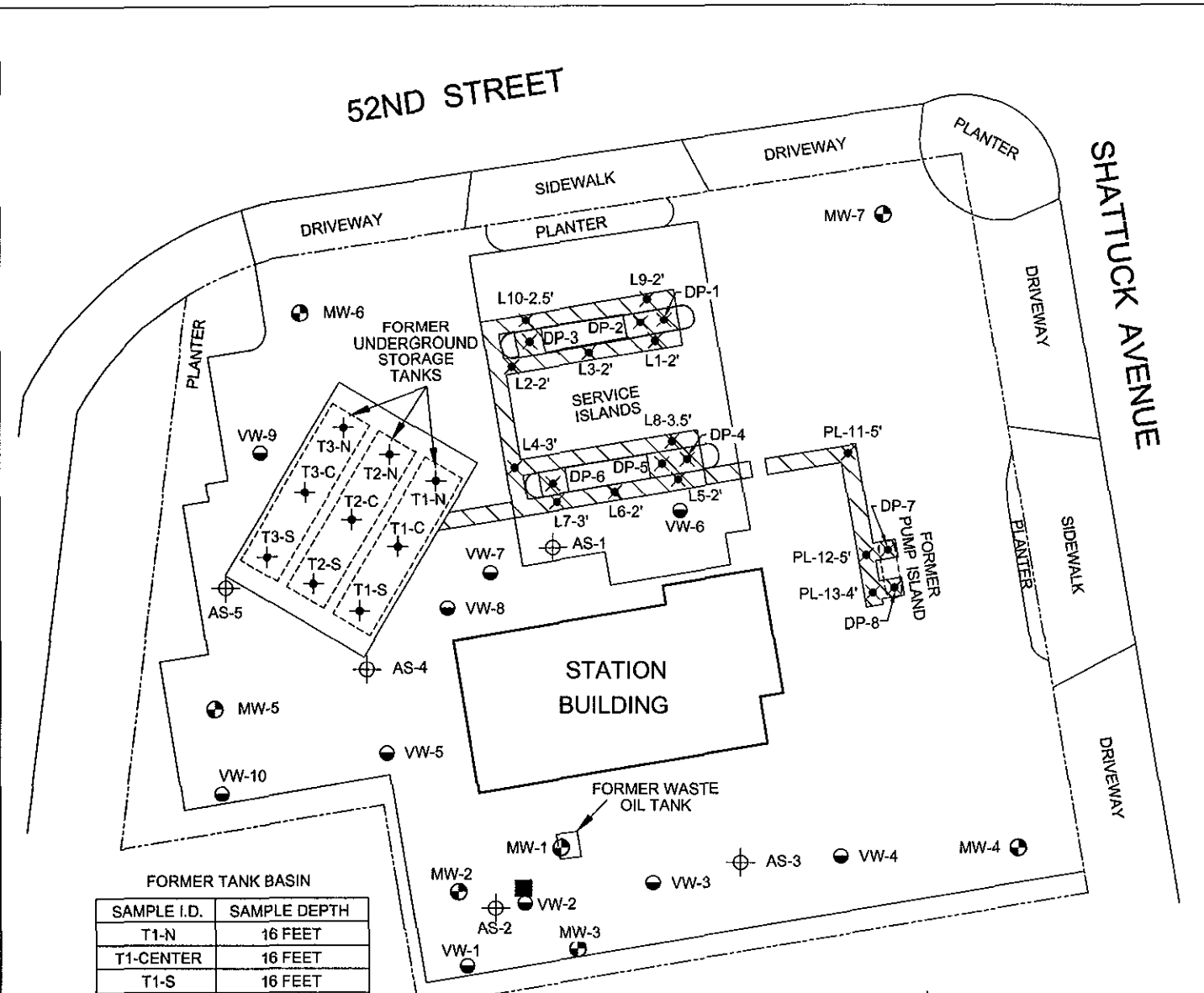
ARCO Service Station No. 6148
5131 Shattuck Boulevard
Oakland, California

Sample ID	Date	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Lead (mg/kg)
Soil Stockpile Results (Composite)							
SP-1	11/17/01	19.9	<0.005	<0.005	0.0495	0.124	<10
SP-2	11/17/01	24.8	<0.005	0.0208	0.133	0.610	<10
SP-3	11/17/01	41.6	<0.005	<0.005	0.132	0.419	<10
SP-4	11/17/01	11.9	<0.005	<0.005	0.0352	0.0311	<10
SP-5	11/17/01	42	<0.005	<0.005	0.158	0.470	<10
SP-6	11/17/01	14.2	<0.005	<0.005	0.0478	0.116	<10
STK-A,B,C,D	12/22/00	30.4	<0.005	<0.005	0.0834	0.345	12.3

TPH = Total petroleum hydrocarbons.

52ND STREET

SHATTUCK AVENUE

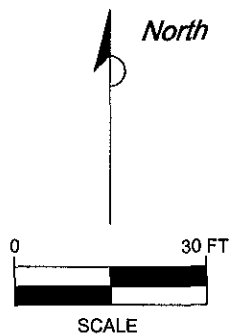


FORMER TANK BASIN

SAMPLE I.D.	SAMPLE DEPTH
T1-N	16 FEET
T1-CENTER	16 FEET
T1-S	16 FEET
T2-N	16 FEET
T2-CENTER	16 FEET
T2-S	16 FEET
T3-N	16 FEET
T3-CENTER	16 FEET
T3-S	16 FEET

DISPENSER PUMP SAMPLES

SAMPLE I.D.	SAMPLE DEPTH
DP-1	2.0 FEET
DP-2	2.0 FEET
DP-3	2.0 FEET
DP-4	2.0 FEET
DP-5	2.0 FEET
DP-6	2.0 FEET
DP-7	4.0 FEET
DP-8	4.0 FEET

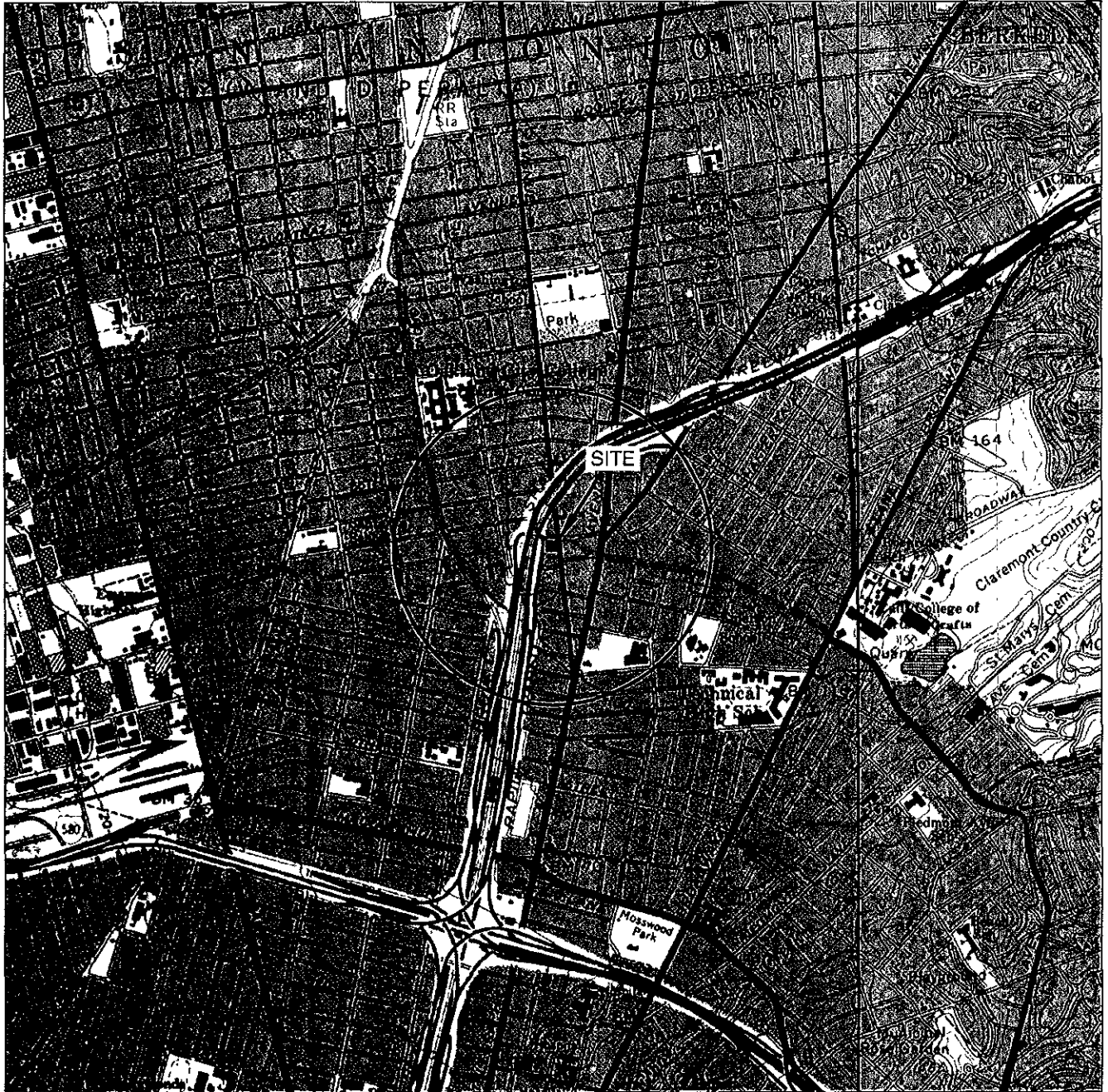


- LEGEND:
- MW-1 MONITORING WELL LOCATION
 - ⊕ AS-2 AIR SPARGING WELL
 - VW-1 SOIL VAPOR EXTRACTION WELL LOCATION
 - DESTROYED WELL LOCATION
 - ✦ T-1N TANK BASIN SOIL SAMPLE LOCATIONS
 - ✕ PL-1 FORMER PRODUCT LINE/ DISPENSER PUMP SOIL SAMPLE LOCATIONS

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 2
SOIL SAMPLE LOCATION MAP
ARCO STATION NO. 6148
5131 SHATTUCK AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. D000-315	DRAWN BY TLA 1/8/01
FILE NO. 6148-1	PREPARED BY TLA
REVISION NO. 2	REVIEWED BY



R.3 W.

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND EAST & WEST, CALIF.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



SCALE 1:24,000

FIGURE 1
 SITE TOPOGRAPHIC MAP
 ARCO STATION NO. 6148
 5131 SHATTUCK AVENUE
 OAKLAND, CA

PROJECT NO. 0000-315	DRAWN BY TLA 12/11/00
FILE NO. 6148-1A	PREPARED BY TLA
REVISION NO.	REVIEWED BY



ENCLOSURE A
Field Methods and Procedures

FIELD METHODS AND PROCEDURES

ARCO Station No. 6148
1156 Davis Street, San Leandro, California

1.1 Health and Safety Plan

Delta personnel performed fieldwork in accordance with a Health and Safety Plan developed for the site. This plan described the basic safety requirements for the subsurface investigation at the site. The Health and Safety Plan was applicable to personnel and subcontractors of Delta. Personnel at the site were informed of the contents of the Health and Safety Plan prior to beginning work. A copy of the Health and Safety Plan was kept at the work site and was available for reference by appropriate parties during the work. The Delta geologist acted as the Site Safety Officer.

1.2 Soil Sampling and Contamination Reduction

Soil sampling was performed under the direction of Delta geologists. To reduce the chances of cross-contamination between samples, all sampling equipment was either steam-cleaned or washed with a non-phosphatic detergent between each sample location. To reduce cross-contamination between samples, the sampler was washed in a soap solution and double-rinsed between each sampling event.

1.3 Soil Sample Collection

Soil at the sample location was excavated to a depth of approximately 6 inches above the sampling depth. At this depth, a hand operated impact sampler lined with a 6-inch clean brass sampling tube was used to collect the soil sample. That part of the soil sample collected in the brass tube within the impact sampler was sealed with Teflon[®] sheeting and plastic caps, labeled, and stored on ice at approximately 4° C for transport to the laboratory.

1.4 Product Distribution Lines and Dispenser Sampling

Soil samples were collected following the removal of the product distribution lines and dispensers. Samples were collected approximately 1 foot below the backfill/native soil interface within the product line trench. If ground water was encountered above the base of the excavation, soil samples were collected from the sidewalls of the excavations immediately above ground water. Following removal of the dispensers, one soil sample was collected approximately 2 feet below the backfill/native soil interface beneath each dispenser.

1.5 Soil Stockpile Sampling

Four soil samples were collected from each 50 cubic yards of stockpiled soil, with each set of four samples being composited in the laboratory prior to analyses. Soil samples were collected in 2-inch diameter brass tubes, which were sealed with Teflon[®] sheeting and plastic caps. The samples were labeled, stored in an ice chest and cooled to approximately 4°C for transport to the laboratory.

FIELD METHODS AND PROCEDURES

ARCO Station No. 6148
1156 Davis Street, San Leandro, California

2.0 ANALYTICAL PROCEDURES

Selected soil samples submitted to the laboratory were analyzed for BTEX and MTBE by EPA Method 8021, TPH as gasoline by EPA Method 8015 and total lead using EPA Method 6010.

3.0 QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures followed throughout the investigation.

3.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample was collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of soil samples used on this project can be found in Section 1.0 (Methods).

3.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensured sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis had a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, were recorded on the borehole log or in the field records. A California-certified laboratory analyzed the samples.

A chain-of-custody form was used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples were shipped, the person in custody of them relinquished the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verified sample integrity and confirmed that the samples were collected in the proper container, preserved correctly, and that there was an adequate volume for analysis.

If these conditions were met, the sample was assigned a unique log number for identification throughout analysis and reporting. The log number was recorded on the chain-of-custody form and in the legally-required logbook maintained by the laboratory in the laboratory. The sample description, date received, client's name, and other relevant information were also recorded.

ENCLOSURE B

General Permits, Uniform Hazardous Waste Manifests and Certificates of Disposal

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER. 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA192076513147423	Manifest Document No. 3	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address ARCO STATION 5131 SHATTUCK AVE. OAKLAND CA 94609		A. State Manifest Document Number 99647423		B. State Generator ID	
4. Generator's Phone (510) 715 0139		C. State Transporter ID (Reserved)		D. Transporter's Phone	
5. Transporter 1 Company Name GENERATOR ENVIRONMENTAL		6. US EPA ID Number CA192076513147423		E. State Transporter ID (Reserved)	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address ALPISO INDEPENDENT OIL 5902 ARCHER STREET ALPISO, CA 95022		10. US EPA ID Number CA192076513147423		G. State Facility ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	Unit Wt/Vol	Waste Number
a. COIL WATER Non-HCS Hazardous Waste Liquid		1		750	6
b.					
c.					
d.					
14. Additional Descriptions for Material(s) Listed Above		15. Special Handling Instructions and Additional Information WASTE Emergency Contact (510) 474-1740 Mr. Rob Heywood 854 171			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Mark Freitas		Signature <i>Mark Freitas</i>		Month Day Year 11 11 00	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIKE STONE		Signature <i>Mike Stone</i>		Month Day Year 11 11 00	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE

liquid left in all 3 tanks

GENERATOR RETAIN

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on a 12-pitch typewriter.

See Instructions on back of page 6

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAL9200165131	Manifest Document No. 30267		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address ARCO, P.O. Box 5181, Shasta Ave, OAKHURST, CA			A. State Manifest Document Number 99680267		B. State Generator ID	
4. Generator's Phone 510 654-3461			C. State Transporter ID (Reserved)		D. Transporter's Phone 510-235-1393	
5. Transporter 1 Company Name Ecology Control Industries			6. US EPA ID Number CAD982030173		E. State Transporter's ID (Reserved)	
7. Transporter 2 Company Name			8. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address Ecology Control Industries, 255 Parr Blvd, Richmond, CA 94801			10. US EPA ID Number CAD009466392		G. State Facility's ID 510-235-1393	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste Numbers
Waste Empty Storage Tank Non-RCRA Hazardous Waste Solid			No. 001 Type TP	06000	P	State CA EPA/Other None
b.						State EPA/Other
c.						State EPA/Other
d.						State EPA/Other
e.						State EPA/Other
16. Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.			Special Handling Codes for Waste (from ABC)			
Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number: Rick Madson 24 hour Emergency Contact: 562-611-8590			DOT ERG# 11a) 171			
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name: Mark Freitas Signature: <i>[Signature]</i> Month: 11 Day: 14 Year: 00			In behalf of Arco			
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name: Ray Landt Signature: <i>[Signature]</i> Month: 11 Day: 14 Year: 00						
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 17. Printed/Typed Name: Mark Freitas Signature: <i>[Signature]</i> Month: 11 Day: 14 Year: 00						

DO NOT WRITE BELOW THIS LINE

[Handwritten signatures]
Mark Freitas
Ray Landt

[Handwritten signature]
Rick Madson

Yellow TAG GENERATOR RETAINS

LOOK FOR ERP TANK

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on white (12-pitch) typewriter.

See instructions on back of page 6

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER, 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA L925765131302681		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator Name and Mailing Address ARCO #6148 5131 SHATTUCK AVE OAKLAND, CA 94609				A. State Manifest Document Number 99680288							
4. Generator's Phone (510) 654-3411				B. State Generator ID							
5. Transporter 1 Company Name Ecology Control Industries				6. US EPA ID Number CAD982030173		C. State Transporter ID (Reserved)		D. Transporter's Phone 610-235-1393			
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter ID (Reserved)		F. Transporter's Phone			
9. Designated Facility Name and Site Address Ecology Control Industries 255 Parr Blvd Richmond, CA 94801				10. US EPA ID Number CAD009466392		G. State Facility ID		H. Facility Phone 510-235-1393			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Waste Empty Storage Tank Non-RCRA Hazardous Waste Solid				12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number	
				No. Type		Quantity		Wt/Vol		Waste Number	
				001 TP0600		P					
16. Additional Comments for Materials Listed Above				17. Handling Codes for Waste Listed Above							
Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number: Rick Mantusano 24 hour Emergency Contact: 510-614-8390 DOT ERG# 11a) 171											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future hazard to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name Mark Freitas		Signature [Signature]		In behalf of ARCO		Month 11		Day 1		Year 2000	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Willie Swen		Signature [Signature]		Month 11		Day 1		Year 2000	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month		Day		Year	
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name		Signature		Month		Day		Year			

DO NOT WRITE BELOW THIS LINE.

99630268

RECEIVED

10K ERP STANIG

GENERATOR/RETAIN

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 030		Manifest Document No. 1302691		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Ecology Control Industries				A. State Manifest Document Number 99630269		B. State Generator's ID			
4. Generator's Phone				5. Transporter 1 Company Name Ecology Control Industries		6. US EPA ID Number CAD982030173		C. State Transporter's ID [Reserved]	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 510-235-1393		E. State Transporter's ID [Reserved]	
9. Designated Facility Name and Site Address Ecology Control Industries 255 Parr Blvd Richmond CA 94801				10. US EPA ID Number CAD009466392		F. Transporter's Phone		G. State Facility's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
Waste Empty Storage Tank Non-RCRA Hazardous Waste Solid				Na. Type 0101 TP		06000		P	
b.				State		Waste Number 012		EPA/Other NONE	
c.				State		Waste Number		EPA/Other	
d.				State		Waste Number		EPA/Other	
1. Additional Descriptions for Materials Listed Above Empty Storage Tank #2731				K. Handling Codes for Wastes Listed Above					
Dry ice per 1000 Gallon capacity				Tanks have been filled with 15 lbs.					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number: 24 hour Emergency Contact: 510-614-8396 DOT ERG# 11a) 171									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Mark Freire			Signature <i>Mark Freire</i>			Month Day Year 11 11 2000			In behalf of Arce
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LARRY MORING			Signature <i>Larry Moring</i>			Month Day Year 11 11 2000			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name			Signature			Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name									
Signature			Month Day Year						

DO NOT WRITE BELOW THIS LINE.

1-10K FRP TANK

Yellow: GENERATOR RETAINS

ENCLOSURE C
Soil Sample Laboratory Analytical Reports

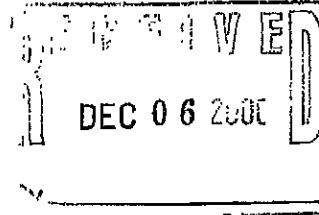


Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

December 05, 2000

Steven Meeks
Delta Environmental Consultants(Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: ARCO 6148, Oakland, CA



Enclosed are the results of analyses for samples received by the laboratory on 11/14/00 15:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R. Hanson
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 2374



Delta Environmental Consultants(Rancho Cordova
 3164 Gold Camp Drive Ste. 200
 Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
 Project Number: N/A
 Project Manager: Steven Meeks

Reported:
 12/05/00 10:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-1-2'	S011228-01	Soil	11/14/00 00:00	11/14/00 15:47
DP-2-2'	S011228-02	Soil	11/14/00 00:00	11/14/00 15:47
DP-3-2'	S011228-03	Soil	11/14/00 00:00	11/14/00 15:47
DP-4-2'	S011228-04	Soil	11/14/00 00:00	11/14/00 15:47
DP-5-2'	S011228-05	Soil	11/14/00 00:00	11/14/00 15:47
DP-6-2'	S011228-06	Soil	11/14/00 00:00	11/14/00 15:47
T1N-16'	S011228-07	Soil	11/14/00 00:00	11/14/00 15:47
T1 Center-16'	S011228-08	Soil	11/14/00 00:00	11/14/00 15:47
T1S-16'	S011228-09	Soil	11/14/00 00:00	11/14/00 15:47
T2N-16'	S011228-10	Soil	11/14/00 00:00	11/14/00 15:47
T2-Center-16'	S011228-11	Soil	11/14/00 00:00	11/14/00 15:47
T2-S-16'	S011228-12	Soil	11/14/00 00:00	11/14/00 15:47
T3-N-16'	S011228-13	Soil	11/14/00 00:00	11/14/00 15:47
T3-Center-16'	S011228-14	Soil	11/14/00 00:00	11/14/00 15:47
T3-S-16'	S011228-15	Soil	11/14/00 00:00	11/14/00 15:47
L-1-2'	S011228-16	Soil	11/14/00 00:00	11/14/00 15:47
L-2-2'	S011228-17	Soil	11/14/00 00:00	11/14/00 15:47
L-3-2'	S011228-18	Soil	11/14/00 00:00	11/14/00 15:47
L-4-3'	S011228-19	Soil	11/14/00 00:00	11/14/00 15:47
L-5-2'	S011228-20	Soil	11/14/00 00:00	11/14/00 15:47
L-6-2'	S011228-21	Soil	11/14/00 00:00	11/14/00 15:47
L-7-3'	S011228-22	Soil	11/14/00 00:00	11/14/00 15:47
L-8-3.5'	S011228-23	Soil	11/14/00 00:00	11/14/00 15:47
L-9-2'	S011228-24	Soil	11/14/00 00:00	11/14/00 15:47
L-10-2.5'	S011228-25	Soil	11/14/00 00:00	11/14/00 15:47





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1-2' (S011228-01) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	5.32	1.00	mg/kg	1	0110300	11/21/00	11/21/00	DHS LUFT	P-02
Benzene	0.0140	0.00500	"	"	"	"	"	"	
Toluene	0.0638	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0110	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.318	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.193	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	60-140		"	"	"	"	
DP-2-2' (S011228-02) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	132	20.0	mg/kg	20	0110300	11/21/00	11/21/00	DHS LUFT	P-02
Benzene	ND	0.100	"	"	"	"	"	"	
Toluene	0.265	0.100	"	"	"	"	"	"	
Ethylbenzene	0.860	0.100	"	"	"	"	"	"	
Xylenes (total)	14.5	0.100	"	"	"	"	"	"	
Methyl tert-butyl ether	1.63	1.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	60-140		"	"	"	"	
DP-3-2' (S011228-03) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0110300	11/21/00	11/21/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0203	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0835	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-4-2' (S011228-04) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	5.16	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	P-01
Benzene	0.0226	0.0100	"	"	"	"	"	"	
Toluene	0.134	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.0564	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.799	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	1.92	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.0 %	60-140		"	"	"	"	
DP-5-2' (S011228-05) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	2390	200	mg/kg	100	0110306	11/22/00	11/22/00	DHS LUFT	P-01
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	1.18	1.00	"	"	"	"	"	"	
Ethylbenzene	8.68	1.00	"	"	"	"	"	"	
Xylenes (total)	140	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	60-140		"	"	"	"	
DP-6-2' (S011228-06) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.0165	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T1N-16' (S011228-07) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	4470	400	mg/kg	200	0110306	11/22/00	11/22/00	DHS LUFT	P-01
Benzene	ND	2.00	"	"	"	"	"	"	
Toluene	105	2.00	"	"	"	"	"	"	
Ethylbenzene	73.0	2.00	"	"	"	"	"	"	
Xylenes (total)	404	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		113 %	60-140	"	"	"	"	"	
T1 Center-16' (S011228-08) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	961	200	mg/kg	100	0110306	11/22/00	11/22/00	DHS LUFT	P-04
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.5 %	60-140	"	"	"	"	"	
T1S-16' (S011228-09) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	200	mg/kg	100	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.0 %	60-140	"	"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T2N-16' (S011228-10) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	14.8	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	P-02
Benzene	0.0299	0.0100	"	"	"	"	"	"	
Toluene	0.0250	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.200	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.655	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	1.21	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	60-140		"	"	"	"	
T2-Center-16' (S011228-11) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	33.1	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	P-02
Benzene	0.0175	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	2.10	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	0.103	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	60-140		"	"	"	"	
T2-S-16' (S011228-12) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.0188	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T3-N-16' (S011228-13) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.0264	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.5 %	60-140		"	"	"	"	
T3-Center-16' (S011228-14) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.0102	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	60-140		"	"	"	"	
T3-S-16' (S011228-15) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	ND	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-1-2' (S011228-16) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	3.55	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0135	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	60-140		"	"	"	"	
L-2-2' (S011228-17) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	ND	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	0.504	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	60-140		"	"	"	"	
L-3-2' (S011228-18) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	ND	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-4-3' (S011228-19) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	ND	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	60-140		"	"	"	"	
L-5-2' (S011228-20) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0102	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.5 %	60-140		"	"	"	"	
L-6-2' (S011228-21) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	5.80	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.0106	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0184	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0207	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.0 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-7-3' (S011228-22) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	2.00	mg/kg	1	0110306	11/22/00	11/22/00	DHS LUFT	
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.0237	0.0100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	60-140		"	"	"	"	
L-8-3.5' (S011228-23) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	60-140		"	"	"	"	
L-9-2' (S011228-24) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	13.2	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.00757	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.118	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.123	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.0 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-10-2.5' (S011228-25) Soil Sampled: 11/14/00 00:00 Received: 11/14/00 15:47									
Purgeable Hydrocarbons	1.15	1.00	mg/kg	1	0110352	11/27/00	11/27/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		99.5 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**MTBE Confirmation by EPA Method 8260A
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1-2' (S011228-01) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	ND	0.500	mg/kg	1	0110374	11/30/00	11/30/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		93.2 %	60-140		"	"	"	"	
DP-2-2' (S011228-02) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	1.02	0.500	mg/kg	1	0110374	11/30/00	11/30/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		93.2 %	60-140		"	"	"	"	
DP-3-2' (S011228-03) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	ND	0.500	mg/kg	1	0110374	11/30/00	11/30/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		90.4 %	60-140		"	"	"	"	
DP-4-2' (S011228-04) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	1.57	0.500	mg/kg	1	0110374	11/30/00	12/01/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		95.6 %	60-140		"	"	"	"	
T2N-16' (S011228-10) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	1.13	0.500	mg/kg	1	0110374	11/30/00	12/01/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		88.4 %	60-140		"	"	"	"	
T2-Center-16' (S011228-11) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	1.08	0.500	mg/kg	1	0110374	11/30/00	12/01/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		90.4 %	60-140		"	"	"	"	
L-2-2' (S011228-17) Soil	Sampled: 11/14/00 00:00 Received: 11/14/00 15:47								O-04
Methyl tert-butyl ether	0.608	0.500	mg/kg	1	0110374	11/30/00	12/01/00	EPA 8260A	
Surrogate: 1,2-DCA-d4		86.4 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0110300 - EPA 5030B (MeOH)

Blank (0110300-BLK1)

Prepared & Analyzed: 11/21/00

Purgeable Hydrocarbons	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Methyl tert-butyl ether	ND	0.0500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.201		"	0.200		101	60-140			

LCS (0110300-BS1)

Prepared & Analyzed: 11/21/00

Benzene	0.167	0.00500	mg/kg	0.200		83.5	70-130			
Toluene	0.199	0.00500	"	0.200		99.5	70-130			
Ethylbenzene	0.216	0.00500	"	0.200		108	70-130			
Xylenes (total)	0.563	0.00500	"	0.600		93.8	70-130			
Methyl tert-butyl ether	0.148	0.0500	"	0.200		74.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.216		"	0.200		108	60-140			

Matrix Spike (0110300-MS1)

Source: S011240-03

Prepared & Analyzed: 11/21/00

Benzene	0.125	0.00500	mg/kg	0.200	ND	62.5	60-140			
Toluene	0.157	0.00500	"	0.200	ND	78.5	60-140			
Ethylbenzene	0.177	0.00500	"	0.200	0.0141	81.4	60-140			
Xylenes (total)	0.472	0.00500	"	0.600	0.0257	74.4	60-140			
Methyl tert-butyl ether	0.109	0.0500	"	0.200	ND	54.5	60-140			Q-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.211		"	0.200		105	60-140			

Matrix Spike Dup (0110300-MSD1)

Source: S011240-03

Prepared & Analyzed: 11/21/00

Benzene	0.126	0.00500	mg/kg	0.200	ND	63.0	60-140	0.797	25	
Toluene	0.157	0.00500	"	0.200	ND	78.5	60-140	0	25	
Ethylbenzene	0.183	0.00500	"	0.200	0.0141	84.4	60-140	3.33	25	
Xylenes (total)	0.467	0.00500	"	0.600	0.0257	73.5	60-140	1.06	25	
Methyl tert-butyl ether	0.111	0.0500	"	0.200	ND	55.5	60-140	1.82	25	Q-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.203		"	0.200		101	60-140			



Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0110306 - EPA 5030B (MeOH)

Blank (0110306-BLK1)

Prepared & Analyzed: 11/22/00

Purgeable Hydrocarbons	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Methyl tert-butyl ether	ND	0.0500	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.202		"	0.200		101	60-140			

LCS (0110306-BS1)

Prepared & Analyzed: 11/22/00

Benzene	0.209	0.00500	mg/kg	0.200		105	70-130			
Toluene	0.223	0.00500	"	0.200		112	70-130			
Ethylbenzene	0.231	0.00500	"	0.200		116	70-130			
Xylenes (total)	0.606	0.00500	"	0.600		101	70-130			
Methyl tert-butyl ether	0.205	0.0500	"	0.200		102	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.219		"	0.200		109	60-140			

Matrix Spike (0110306-MS1)

Source: S011228-22

Prepared & Analyzed: 11/22/00

Benzene	0.167	0.00500	mg/kg	0.200	ND	83.5	60-140			
Toluene	0.180	0.00500	"	0.200	ND	90.0	60-140			
Ethylbenzene	0.193	0.00500	"	0.200	ND	96.5	60-140			
Xylenes (total)	0.501	0.00500	"	0.600	0.0237	79.5	60-140			
Methyl tert-butyl ether	0.171	0.0500	"	0.200	ND	85.5	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.197		"	0.200		98.5	60-140			

Matrix Spike Dup (0110306-MSD1)

Source: S011228-22

Prepared & Analyzed: 11/22/00

Benzene	0.177	0.00500	mg/kg	0.200	ND	88.5	60-140	5.81	25	
Toluene	0.187	0.00500	"	0.200	ND	93.5	60-140	3.81	25	
Ethylbenzene	0.201	0.00500	"	0.200	ND	101	60-140	4.06	25	
Xylenes (total)	0.518	0.00500	"	0.600	0.0237	82.4	60-140	3.34	25	
Methyl tert-butyl ether	0.176	0.0500	"	0.200	ND	88.0	60-140	2.88	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.213		"	0.200		106	60-140			



Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0110352 - EPA 5030B (MeOH)

Blank (0110352-BLK1)

Prepared & Analyzed: 11/27/00

Purgeable Hydrocarbons	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Methyl tert-butyl ether	ND	0.0500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.200		"	0.200		100	60-140			

LCS (0110352-BS1)

Prepared & Analyzed: 11/27/00

Benzene	0.209	0.00500	mg/kg	0.200		105	70-130			
Toluene	0.222	0.00500	"	0.200		111	70-130			
Ethylbenzene	0.230	0.00500	"	0.200		115	70-130			
Xylenes (total)	0.593	0.00500	"	0.600		98.8	70-130			
Methyl tert-butyl ether	0.204	0.0500	"	0.200		102	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.214		"	0.200		107	60-140			

Matrix Spike (0110352-MS1)

Source: S011228-25

Prepared & Analyzed: 11/27/00

Benzene	0.185	0.00500	mg/kg	0.200	ND	92.5	60-140			
Toluene	0.193	0.00500	"	0.200	ND	96.5	60-140			
Ethylbenzene	0.203	0.00500	"	0.200	ND	101	60-140			
Xylenes (total)	0.530	0.00500	"	0.600	ND	88.3	60-140			
Methyl tert-butyl ether	0.161	0.0500	"	0.200	ND	80.5	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.203		"	0.200		101	60-140			

Matrix Spike Dup (0110352-MSD1)

Source: S011228-25

Prepared & Analyzed: 11/27/00

Benzene	0.183	0.00500	mg/kg	0.200	ND	91.5	60-140	1.09	25	
Toluene	0.195	0.00500	"	0.200	ND	97.5	60-140	1.03	25	
Ethylbenzene	0.205	0.00500	"	0.200	ND	102	60-140	0.980	25	
Xylenes (total)	0.530	0.00500	"	0.600	ND	88.3	60-140	0	25	
Methyl tert-butyl ether	0.166	0.0500	"	0.200	ND	83.0	60-140	3.06	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.200		"	0.200		100	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

**MTBE Confirmation by EPA Method 8260A - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110374 - EPA 5030B [MeOH]										
Blank (0110374-BLK1) Prepared & Analyzed: 11/30/00										
Methyl tert-butyl ether	ND	0.500	mg/kg							
Surrogate: 1,2-DCA-d4	2.33		"	2.50		93.2	60-140			
LCS (0110374-BS1) Prepared & Analyzed: 11/30/00										
Methyl tert-butyl ether	2.50	0.500	mg/kg	2.50		100	70-130			
Surrogate: 1,2-DCA-d4	2.52		"	2.50		101	60-140			
Matrix Spike (0110374-MS1) Source: S011340-02 Prepared & Analyzed: 11/30/00										
Methyl tert-butyl ether	2.76	0.500	mg/kg	2.50	ND	95.0	60-140			
Surrogate: 1,2-DCA-d4	2.36		"	2.50		94.4	60-140			
Matrix Spike Dup (0110374-MSD1) Source: S011340-02 Prepared & Analyzed: 11/30/00										
Methyl tert-butyl ether	2.66	0.500	mg/kg	2.50	ND	91.0	60-140	3.69	25	
Surrogate: 1,2-DCA-d4	2.29		"	2.50		91.6	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/05/00 10:43

Notes and Definitions

- O-04 This sample was analyzed outside the EPA recommended holding time.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-02 Chromatogram Pattern: Weathered Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- P-04 Chromatogram Pattern: Weathered Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
- Q-02 The RPD and/or spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



ARCO Facility no. 6148	City (Facility) Ontario	Project manager (Consultant) Steve Meeks	Laboratory name Sepwin
ARCO engineer	Telephone no. (ARCO)	Telephone no. (Consultant) 916-536-2613	Contract number
Consultant name Delta	Address (Consultant) 3164 Bull Camp PK Rancho Conejo CA		
		Fax no. (Consultant) 916-638-8385	

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 802/EPA 6020	BTEX/TPH EPA 1602/8020/8015	TPH Modified 8015 PM Gas Diesel	Oil and Grease 419.1 413.2	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 824/8240	EPA 825/8270	TCUP Metals VOAC VOAC	Semi Metals VOAC VOAC	CAN METALS EPA 818/8100 TLC STIC	Lead Org./DHS Lead EPA 7420/7421	MTBE 8260	Method of shipment		
			Soil	Water	Other	Ice	Acid																		
DP-1-2'		1	X			X		11-14-00	1024	X	X													Special detection Limit/reporting	
DP-2-2'		1	X			X		}	1027	X	X														
DP-3-2'		1	X			X			1032	X	X														
DP-4-2'		1	X			X			1059	X	X														
DP-5-2'		1	X			X			1055	X	X														
DP-6-2'		1	X			X			1052	X	X														
T1N-16'		1	X			X			1348	X	X														
T1Cent-16'		1	X			X			1343	X	X														Remarks
T1S-16'		1	X			X			1400	X	X														* MTBE 8260
T2N-16'		1	X			X			1350	X	X														Confirm with
T2-16'		1	X			X			1341	X	X														8260 IP
T2-5-16'		1	X			X		1357	X	X														Detected	
T3N-16'		1	X			X		1351	X	X															
T3Cent-16'		1	X			X		1339	X	X															
T3-5-16'		1	X			X		11-14-00 1355	X	X														Lab number	

Condition of sample	Temperature received:	Priority Rush
Relinquished by sample	Received by	1 Business Day
Relinquished by	Received by	Rush
Relinquished by	Received by	2 Business Days
Relinquished by	Received by	Expedited
Relinquished by	Received by	5 Business Days
Relinquished by	Received by	Standard
Relinquished by	Received by	10 Business Days

ARCO Facility no. **6148** City (Facility) **Oakland** Project manager (Consultant) **Steve Meeks**
 ARCO engineer Telephone no. (ARCO) Telephone no. (Consultant) **916-536-2613** Fax no. (Consultant) **916-676-8385**
 Consultant name **Delta** Address (Consultant) **3164 Gold Camp DR, Rancho Cordón**
 Laboratory name **Sevens**
 Contract number

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA-6020	BTEX/TPH EPA 1602/8020/8015	TPH Modified 8015/TPH Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM503E	EPA 801/8010	EPA 824/8240	EPA 825/8270	TCUP Metals VOAC VOAC	CAN/NEALS EPA 8010/700 TLC STL	Lead Org./DHS Lead EPA 7420/7421	MTBE 8020			
			Soil	Water	Other	Ice	Acid																	
L-1-2'		1	X			X		11-14-00	1035	X	X													
L-2-2'		1	X			X		}	1039	X	X													
L-3-2'		1	X			X			1043	X	X													
L-4-3'		1	X			X			1048	X	X													
L-5-2'		1	X			X			1103	X	X													
L-6-2'		1	X			X			1107	X	X													
L-7-3'		1	X			X			1111	X	X													
L-8-25' 35'		1	X			X			1122	X	X													
L-9-2'		1	X			X			1134	X	X													
L-10-25'		1	X			X			11-14-00 1141	X	X													

Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks
 * MTBE 802
 Confirm with
 8260 FF
 Detected

Lab number
 Kasper Chris
 11/15/00 20

Turnaround time

Priority Rush
 1 Business Day []

Rush
 2 Business Days []

Expedited
 5 Business Days []

Standard
 10 Business Days [X]

Condition of sample:

Relinquished by sampler: *[Signature]* Date: **11-14-00** Time: **1547** Temperature received: Received by: *[Signature]* Date: **11-14-00** Time: **1547**

Relinquished by: Date: Time: Received by: Date: Time:



January 04 , 2001

Steven Meeks
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: ARCO 6148, Oakland, CA / S012359

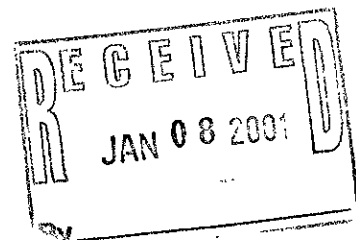
Enclosed are the results of analyses for samples received by the laboratory on 12/22/00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R. Hanson
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
01/04/01 08:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PL-11-5.0	S012359-01	Soil	12/22/00 10:45	12/22/00 14:50
PL-12-5.0	S012359-02	Soil	12/22/00 11:00	12/22/00 14:50
PL-13-4.0	S012359-03	Soil	12/22/00 11:15	12/22/00 14:50
DP-7-4.0	S012359-04	Soil	12/22/00 11:35	12/22/00 14:50
DP-8-4.0	S012359-05	Soil	12/22/00 11:55	12/22/00 14:50





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
01/04/01 08:28

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-11-5.0 (S012359-01) Soil Sampled: 12/22/00 10:45 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	1010018	01/02/01	01/02/01	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00667	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	60-140		"	"	"	"	
PL-12-5.0 (S012359-02) Soil Sampled: 12/22/00 11:00 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	1010018	01/02/01	01/02/01	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00560	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %	60-140		"	"	"	"	
PL-13-4.0 (S012359-03) Soil Sampled: 12/22/00 11:15 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	1010018	01/02/01	01/02/01	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 6148, Oakland, CA Project Number: N/A Project Manager: Steven Meeks	Reported: 01/04/01 08:28
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-7-4.0 (S012359-04) Soil Sampled: 12/22/00 11:35 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	1010018	01/02/01	01/02/01	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00581	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	60-140		"	"	"	"	
DP-8-4.0 (S012359-05) Soil Sampled: 12/22/00 11:55 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	1010018	01/02/01	01/02/01	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00834	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 6148, Oakland, CA Project Number: N/A Project Manager: Steven Meeks	Reported: 01/04/01 08:28
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1010018 - EPA 5030B (MeOH)

Blank (1010018-BLK1)

Prepared & Analyzed: 01/02/01

Purgeable Hydrocarbons	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Methyl tert-butyl ether	ND	0.0500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.198		"	0.200		99.0	60-140			

LCS (1010018-BS1)

Prepared & Analyzed: 01/02/01

Benzene	0.195	0.00500	mg/kg	0.200		97.5	70-130			
Toluene	0.207	0.00500	"	0.200		103	70-130			
Ethylbenzene	0.212	0.00500	"	0.200		106	70-130			
Xylenes (total)	0.573	0.00500	"	0.600		95.5	70-130			
Methyl tert-butyl ether	0.170	0.0500	"	0.200		85.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.206		"	0.200		103	60-140			

Matrix Spike (1010018-MS1)

Source: S012359-01

Prepared & Analyzed: 01/02/01

Benzene	0.173	0.00500	mg/kg	0.200	ND	86.5	60-140			
Toluene	0.145	0.00500	"	0.200	ND	72.5	60-140			
Ethylbenzene	0.212	0.00500	"	0.200	ND	106	60-140			
Xylenes (total)	0.516	0.00500	"	0.600	0.00667	84.9	60-140			
Methyl tert-butyl ether	0.155	0.0500	"	0.200	ND	77.5	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.224		"	0.200		112	60-140			

Matrix Spike Dup (1010018-MSD1)

Source: S012359-01

Prepared & Analyzed: 01/02/01

Benzene	0.173	0.00500	mg/kg	0.200	ND	86.5	60-140	0	25	
Toluene	0.184	0.00500	"	0.200	ND	92.0	60-140	23.7	25	
Ethylbenzene	0.191	0.00500	"	0.200	ND	95.5	60-140	10.4	25	
Xylenes (total)	0.496	0.00500	"	0.600	0.00667	81.6	60-140	3.95	25	
Methyl tert-butyl ether	0.165	0.0500	"	0.200	ND	82.5	60-140	6.25	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.232		"	0.200		116	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
01/04/01 08:28

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



ARCO Facility no. **6148** City (Facility) **OAKLAND, CA** Project manager (Consultant) **STEVE WELKS** Laboratory name **SEQUOIA**

ARCO engineer **PAUL SUPPVE** Telephone no. (ARCO) **925-299-8891** Telephone no. (Consultant) **916-638-2085** Fax no. (Consultant) **916-638-5385** Contract number

Consultant name **DELTA ENV.** Address (Consultant) **3164 GOLD CAMP #200, RANCHO CINDOVA**

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802	BTEX/TPH EPA M802/M200/9015	TPH Modified 9015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM603E	EPA 801/9010	EPA 824/8240	EPA 605/6270	TGLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 801/7000 TLLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>		Method of shipment	
			Soil	Water	Other	Ice	Acid																Method of shipment
PL-11-50		1	X			X	12/22/00	10:45		X													HAND DELIV.
PL-12-50		1	X			X		11:00		X													Special detection Limit/reporting CONFIRM MTBE BY 8260
PL-13-40		1	X			X		11:15		X													-02
DP-7-40		1	X			X		11:35		X													-03
DP-8-40		1	X			X	V	11:55		X													-04
																							-05
																							Special QA/QC
																							Remarks FAX RESULTS TU: 916-638-8385
																							Lab number
																							Turnaround time
																							Priority Rush 1 Business Day <input type="checkbox"/>
																							Rush 2 Business Days <input type="checkbox"/>
																							Expedited 5 Business Days <input type="checkbox"/>
																							Standard 10 Business Days <input checked="" type="checkbox"/>

Condition of sample:

Relinquished by sampler *[Signature]* Date **12/22/00** Time **1240** Received by *[Signature]* Temperature received **13°C**

Relinquished by *[Signature]* Date **12-22-00** Time **1450** Received by *[Signature]*

Relinquished by *[Signature]* Date **12-22-00** Time **1450** Received by laboratory *[Signature]* Date **12-22-00** Time **1450**

ENCLOSURE D
Soil Stockpile Samples
Laboratory Analytical Reports

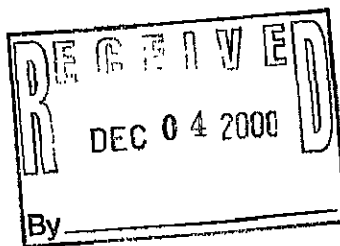


Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

November 30, 2000

Steven Meeks
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: ARCO 6148, Oakland, CA

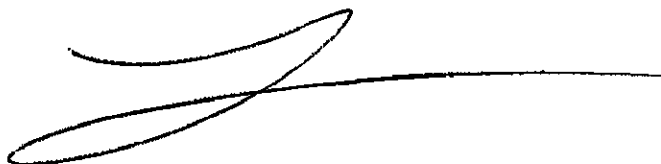


Enclosed are the results of analyses for samples received by the laboratory on 11/17/00 11:27. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R Hanson

Sandra R. Hanson
Client Services Representative


Lito Diaz
Laboratory Director

CA ELAP Certificate Number 2374



Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1A,B,C,D (COMPOSITE)	S011291-01	Soil	11/17/00 00:00	11/17/00 11:27
SP-2A,B,C,D (COMPOSITE)	S011291-02	Soil	11/17/00 00:00	11/17/00 11:27
SP-3A,B,C,D (COMPOSITE)	S011291-03	Soil	11/17/00 00:00	11/17/00 11:27
SP-4A,B,C,D (COMPOSITE)	S011291-04	Soil	11/17/00 00:00	11/17/00 11:27
SP-5A,B,C,D (COMPOSITE)	S011291-05	Soil	11/17/00 00:00	11/17/00 11:27
SP-6A,B,C,D (COMPOSITE)	S011291-06	Soil	11/17/00 00:00	11/17/00 11:27





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1A,B,C,D (COMPOSITE) (S011291-01) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	19.9	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0495	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.124	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.5 %	60-140		"	"	"	"	
SP-2A,B,C,D (COMPOSITE) (S011291-02) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	24.8	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-04
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.0208	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.133	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.610	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	60-140		"	"	"	"	
SP-3A,B,C,D (COMPOSITE) (S011291-03) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	41.6	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.132	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.419	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	60-140		"	"	"	"	
SP-4A,B,C,D (COMPOSITE) (S011291-04) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	11.9	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0352	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0311	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	60-140		"	"	"	"	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-5A,B,C,D (COMPOSITE) (S011291-05) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	42.0	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.158	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.470	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.0 %	60-140	"	"	"	"	"	
SP-6A,B,C,D (COMPOSITE) (S011291-06) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Purgeable Hydrocarbons	14.2	1.00	mg/kg	1	0110362	11/28/00	11/28/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0478	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.116	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.0 %	60-140	"	"	"	"	"	



Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1A,B,C,D (COMPOSITE) (S011291-01) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01
SP-2A,B,C,D (COMPOSITE) (S011291-02) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01
SP-3A,B,C,D (COMPOSITE) (S011291-03) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01
SP-4A,B,C,D (COMPOSITE) (S011291-04) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01
SP-5A,B,C,D (COMPOSITE) (S011291-05) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01
SP-6A,B,C,D (COMPOSITE) (S011291-06) Soil Sampled: 11/17/00 00:00 Received: 11/17/00 11:27									
Lead	ND	10.0	mg/kg	4	0110349	11/28/00	11/29/00	EPA 6010A	R-01





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 0110362 - EPA 5030B (MeOH)									
Blank (0110362-BLK1)					Prepared & Analyzed: 11/28/00				
Purgeable Hydrocarbons	ND	1.00	mg/kg						
Benzene	ND	0.00500	"						
Toluene	ND	0.00500	"						
Ethylbenzene	ND	0.00500	"						
Xylenes (total)	ND	0.00500	"						
Surrogate: a,a,a-Trifluorotoluene	0.190		"	0.200		95.0	60-140		
LCS (0110362-BS1)					Prepared & Analyzed: 11/28/00				
Benzene	0.202	0.00500	mg/kg	0.200		101	70-130		
Toluene	0.217	0.00500	"	0.200		108	70-130		
Ethylbenzene	0.225	0.00500	"	0.200		112	70-130		
Xylenes (total)	0.480	0.00500	"	0.600		80.0	70-130		
Surrogate: a,a,a-Trifluorotoluene	0.206		"	0.200		103	60-140		
Matrix Spike (0110362-MS1)					Source: S011341-06 Prepared: 11/28/00 Analyzed: 11/29/00				
Surrogate: a,a,a-Trifluorotoluene	0.159		mg/kg	0.200		79.5	60-140		
Matrix Spike Dup (0110362-MSD1)					Source: S011341-06 Prepared: 11/28/00 Analyzed: 11/29/00				
Surrogate: a,a,a-Trifluorotoluene	0.176		mg/kg	0.200		88.0	60-140		

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Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 6148, Oakland, CA Project Number: N/A Project Manager: Steven Meeks	Reported: 11/30/00 11:38
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110349 - EPA 3050B										
Blank (0110349-BLK1) Prepared: 11/28/00 Analyzed: 11/29/00										
Lead	ND	2.50	mg/kg							
LCS (0110349-BS1) Prepared: 11/28/00 Analyzed: 11/29/00										
Lead	48.3	2.50	mg/kg	50.0		96.6	80-120			
Matrix Spike (0110349-MS1) Source: S011286-01 Prepared: 11/28/00 Analyzed: 11/29/00										
Lead	47.8	10.0	mg/kg	50.0	ND	95.6	80-120			
Matrix Spike Dup (0110349-MSD1) Source: S011286-01 Prepared: 11/28/00 Analyzed: 11/29/00										
Lead	44.0	10.0	mg/kg	50.0	ND	88.0	80-120	8.28	20	





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
11/30/00 11:38

Notes and Definitions

- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- P-04 Chromatogram Pattern: Weathered Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
- R-01 The reporting limit for this analyte has been raised to account for matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



ARCO Facility no. 6148	City (Facility) Oakland	Project manager (Consultant) Steve Meeks	Laboratory name Sepvira
ARCO engineer	Telephone no. (ARCO)	Telephone no. (Consultant) 916-536-2613	Contract number
Consultant name Delta	Address (Consultant) 3164 Gold Camp DR Rancho Cordova		Fax no. (Consultant) 916-638-8385

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	STEX EPA 802/EPA 8020	BTEX/TPH EPA 146/240/8015	TPH Modified B015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 419.1 <input type="checkbox"/> 419.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metallic VOAC <input type="checkbox"/> VOAC <input type="checkbox"/>	CJM METALS EPA 801/8000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org/DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	Lead TLC	
			Soil	Water	Other	Ice	Acid															
SP-1A		1	X			X		11-17-00	0550		X											X
SP-1B		1	X			X		11-17-00														
SP-1C		1	X			X																
SP-1D		1	X			X																
SP-24		1	X			X			0600		X											X
SP-2B		1	X			X																
SP-2C		1	X			X																
SP-2D		1	X			X																
SP-3A		1	X			X			0610		X											X
SP-3B		1	X			X																
SP-3C		1	X			X																
SP-4A		1	X			X			0615		X											X
SP-4B		1	X			X																
SP-4C		1	X			X																
SP-4D		1	X			X																
SP-5A		1	X			X			0620		X											X
SP-5B		1	X			X																
SP-5C		1	X			X																
SP-6A		1	X			X			0630		X											X
SP-6B		1	X			X																
SP-6C		1	X			X																
SP-6D		1	X			X		11-17-00														

Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks
Composite 4 to 1

Lab number

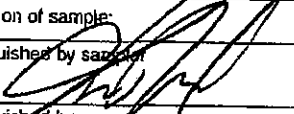
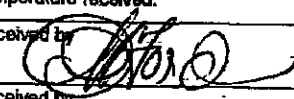
Turnaround time

Priority Rush
1 Business Day

Rush
2 Business Days

Expedited
5 Business Days

Standard
10 Business Days

Condition of sample:	Temperature received:
Relinquished by 	Received by 
Date 11-17-00 Time 1125	Date 11-17-00 Time 1127
Relinquished by	Received by
Date	Date
Time	Time
Relinquished by	Received by
Date	Date
Time	Time



December 29 , 2000

Steven Meeks
Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670
RE: ARCO 6148, Oakland, CA / S012358

Enclosed are the results of analyses for samples received by the laboratory on 12/22/00. If you have any questions concerning this report, please feel free to contact me.

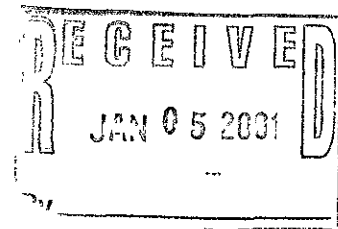
Sincerely,

Sandra R Hanson

Sandra R. Hanson
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/29/00 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STK-A,B,C,D (Composite)	S012358-01	Soil	12/22/00 00:00	12/22/00 14:50





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/29/00 13:46

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STK-A,B,C,D (Composite) (S012358-01) Soil Sampled: 12/22/00 00:00 Received: 12/22/00 14:50									
Purgeable Hydrocarbons	30.4	1.00	mg/kg	1	0120338	12/29/00	12/29/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0834	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.345	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %		60-140	"	"	"	"	





Delta Environmental Consultants(Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 6148, Oakland, CA Project Number: N/A Project Manager: Steven Meeks	Reported: 12/29/00 13:46
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**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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STK-A,B,C,D (Composite) (S012358-01) Soil **Sampled: 12/22/00 00:00** **Received: 12/22/00 14:50**

Lead	12.3	10.0	mg/kg	4	0120308	12/27/00	12/27/00	EPA 6010A	
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Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager Steven Meeks

Reported:
12/29/00 13:46

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0120338 - EPA 5030B (MeOH)

Blank (0120338-BLK1)

Prepared & Analyzed: 12/29/00

Purgeable Hydrocarbons	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.211		"	0.200		105	60-140			

LCS (0120338-BS1)

Prepared & Analyzed: 12/29/00

Benzene	0.204	0.00500	mg/kg	0.200		102	70-130			
Toluene	0.215	0.00500	"	0.200		108	70-130			
Ethylbenzene	0.221	0.00500	"	0.200		110	70-130			
Xylenes (total)	0.580	0.00500	"	0.600		96.7	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.214		"	0.200		107	60-140			





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager Steven Meeks

Reported:
12/29/00 13:46

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0120308 - EPA 3050B

Blank (0120308-BLK1)

Prepared & Analyzed: 12/27/00

Lead ND 2.50 mg/kg

LCS (0120308-BS1)

Prepared & Analyzed: 12/27/00

Lead 50.0 2.50 mg/kg 50.0 100 80-120

Matrix Spike (0120308-MS1)

Source: S012335-01

Prepared & Analyzed: 12/27/00

Lead 54.7 10.0 mg/kg 50.0 ND 89.8 80-120

Matrix Spike Dup (0120308-MSD1)

Source: S012335-01

Prepared & Analyzed: 12/27/00

Lead 55.5 10.0 mg/kg 50.0 ND 91.4 80-120 1.45 20





Delta Environmental Consultants(Rancho Cordova
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 6148, Oakland, CA
Project Number: N/A
Project Manager: Steven Meeks

Reported:
12/29/00 13:46

Notes and Definitions

P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



ARCO Products Company

Division of AtlanticRichfieldCompany

Task Order No.

Chain of Custody

ARCO Facility no. **6148** City (Facility) **OAKLAND, CA** Project manager (Consultant) **STEVE WREKS**
 ARCO engineer **PAUL SUPPLE** Telephone no. (ARCO) **925 299-8991** Telephone no. (Consultant) **916 638 2095** Fax no. (Consultant) **916 630-8385**
 Consultant name **DELTA ENV.** Address (Consultant) **3164 GOLD CAMP DR. #200, PALM, CALIFORNIA**

Laboratory name
SEQUOIA

Contract number

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802	BTEX/TPH EPA 802/802/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOC <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 8010/7000 TTL <input type="checkbox"/> STL <input type="checkbox"/>	Lead Oxidation Lead EPA 7420/7421 <input type="checkbox"/>	LEAD (TLC)	
			Soil	Water	Other	Ice	Acid																
STK-A		1	X			X		12/22/00	1220	X													X
STK-B		1	X			X		↓	↓	X													X
STK-C		1	X			X		↓	↓	X													X
STK-D		1	X			X		↓	↓	X													X

Method of shipment
HAND DELIVERED

Special detection Limit/reporting

SO12358-01

Special QA/QC

Remarks
**FAX RESULTS TO:
916 638-8385**

Lab number

Turnaround time
 Priority Rush 1 Business Day
 Rush 2 Business Days
 Expedited 5 Business Days
 Standard 10 Business Days

Condition of sample: _____ Temperature received: **13°C**

Relinquished by sampler: **[Signature]** Date: **12/22/00** Time: **1230** Received by: **[Signature]**

Relinquished by: **[Signature]** Date: **12-22-00** Time: **1450** Received by: **[Signature]**

Relinquished by: _____ Date: _____ Time: _____ Received by laboratory: **[Signature]** Date: **12-22-00** Time: **1450**

COMPOSITE

ENCLOSURE E
Completion Letter for Soil Removed

Dillard Trucking, Inc. dba
Dillard Environmental Services

P. O. Box 579 • Byron, CA 94514
Phone (925) 634-6850 – Fax (925) 634-0569
EPA #CAD982523433 • D.T.S.C. #1715 • CA LIC #624665-A HAZ

Via Fax (916) 638-8385

January 29, 2001

Attn: Steve Meeks
Delta Environmental Consultants, Inc.
3164 Gold Camp Dr., Suite 200
Ranch Cordova, CA 95670

RE: ARCO #06148
5131 Shattuck Avenue
Oakland, CA

Dear Mr. Meeks:

Please be advised that a total of 552.42 tons of non-hazardous soil from the referenced site has been removed. The soil was transported for disposal to Forward Landfill in Manteca, California on 12/01/00, 12/05/00, 01/04/01, 01/05/01.

Should you have any questions, please do not hesitate to call.

Sincerely,

Dillard Trucking, Inc. dba,
DILLARD ENVIRONMENTAL SERVICES

Lynette Smith
Lynette Smith