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3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2435

TRANSMITTAL

TO: MR. LARRY SETO ALAMEDA COUNTY		DATE: 11/22/91 PROJECT NUMBER: 60000.05 SUBJECT: ARCO STATION 771 AT
80 SWAN WAY, ROOAKLAND, CALIFO		
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1 11/21/91		MONITORING REPORT FOR THE ABOVE SUBJECT SITE
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REMARKS: THIS I	REPORT HAS BI	EEN FORWARDED TO YOU AT THE REQUEST OF OF ARCO PRODUCTS COMPANY.
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A RESNA Company



3315 Almaden Expressway, Suite 34

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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Third Quarter 1991
at
ARCO Station 771
899 Rincon Avenue
Livermore, California

60000.05







3315 Almaden Expressway, Suite 34 San Jose, CA 95118

Phone: (408) 264-7723 Fax: (408) 264-2435

> November 21, 1991 1026ccar 60000.05

Mr. Chuck Carmel ARCO Products Company P.O. Box 5811 San Mateo, California 94402

Subject:

Third Ouarter 1991 Groundwater Monitoring Report for ARCO Station 771,

899 Rincon Avenue, Livermore, California.

Mr. Carmel:

As requested by ARCO Products Company (ARCO), this letter report summarizes the methods and results of third quarter 1991 groundwater monitoring performed by RESNA at the above-referenced site. The station is located on the southwestern corner of the intersection of Rincon Avenue and Pine Street in Livermore, California, as shown on the Site Vicinity Map, Plate 1. ARCO has requested that RESNA perform monthly water level measurements and quarterly groundwater sampling to monitor gasoline hydrocarbon concentrations associated with the gasoline-storage tanks at the site, and to evaluate trends related to fluctuations of these hydrocarbon concentrations.

Prior to this quarterly monitoring period, RESNA performed assessments and investigations at the site. In February 1990, RESNA performed an environmental site assessment (Applied GeoSystems [AGS], June 1990), which included the drilling of three borings (B-1 through B-3). In December 1990, RESNA performed a supplemental subsurface investigation which included three soil borings (B-4 through B-6) and installation of monitoring wells MW-1, MW-2, and MW-3 (AGS, April 1991). In January 1991, quarterly monitoring was initiated. In July 1991, RESNA performed an additional subsurface investigation which included soil borings (B-7 through B-11) and installation of monitoring wells MW-4 through MW-7 (RESNA, October 9, 1991). The results of these investigations are presented in the reports listed in the references attached to this letter report. The locations of the soil borings, groundwater monitoring wells, and pertinent site features are shown on the Generalized Site Plan, Plate 2.

Groundwater Sampling and Gradient Evaluation

RESNA personnel performed monthly monitoring of groundwater elevations and subjective analyses on June 20, July 25, August 13, and September 12, 1991; in addition, quarterly sampling was performed on July 25, 1991. Field work consisted of measuring depth-to-water (DTW) levels in wells MW-1, MW-2, and MW-3 in June, and MW-1 through MW-7 in July, August, and September; subjectively analyzing water from these wells for the presence of petroleum hydrocarbon sheen and floating product; removing floating product and sheen; and purging and sampling groundwater from monitoring wells MW-3 through MW-7 for laboratory analysis. The groundwater sampling protocol is presented in Appendix A.

Subjective analyses of groundwater monitoring wells this quarter indicated the presence of floating product up to 0.49 feet in wells MW-1, MW-2, MW-5 (no sheen or floating product was present in well MW-5 during the July monitoring and sampling), and MW-7. No evidence of petroleum hydrocarbons was noted in wells MW-3 and MW-6. Cumulative results of subjective analyses are presented in Table 1, Cumulative Groundwater Monitoring Data.

The DTW levels, wellhead elevations, and groundwater elevations for this and previous monitoring episodes at the site are summarized in Table 1. Groundwater elevations in wells containing floating product were calculated as stated in Appendix A. Groundwater gradients from June through September ranged from approximately 0.003 to 0.03, with an interpreted average groundwater gradient of approximately 0.02 toward the northwest. Groundwater gradients for June 20, July 25, August 13, and September 12, 1991 are shown on the Groundwater Gradient Maps, Plates 3, 4, 5, and 6, respectively. Due to floating product in wells MW-1, MW-2, and MW-5, these gradients are considered approximate.

Monitoring wells MW-3 through MW-7 were purged and sampled in accordance with the attached protocol. Wells MW-1 and MW-2 were not sampled due to the presence of free product, which was bailed from the wells. Floating product was measured in well MW-5 in August and September, after sampling the well in July 1991. Purge water was removed from the site by a licensed hazardous waste hauler; the Uniform Hazardous Waste Manifest is attached in Appendix A.

Laboratory Analysis

Water samples collected from wells MW-3 through MW-7 were sent to Sequoia Analytical in Redwood City, California (Hazardous Waste Testing Laboratory Certification No. 1210). The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection



Agency (EPA) Methods 5030/8015/8020. The Chain of Custody Records and Laboratory Analysis Reports are attached in Appendix A. Results of these and previous water analyses are summarized in Table 2, Cumulative Results of Laboratory Analysis of Groundwater Samples. Concentration contours of TPHg and benzene are shown on Plates 7 and 8, respectively.

Results of this quarter's groundwater samples analyses indicate:

- o Wells MW-1, MW-2, and MW-5 contained floating product during this quarter;
- o TPHg ranged from 110 parts per billion (ppb) in well MW-3 to 57,000 ppb in well MW-5;
- o Concentrations of benzene exceeded the State Maximum Contaminant Level (MCL) of 1 ppb in wells MW-4 (590 ppb), MW-5 (2,300 ppb), MW-6 (3,000 ppb), and MW-7 (1,500);
- o Concentrations of toluene exceeded the State Recommended Action Level (AL) of 100 ppb in wells MW-4 (730 ppb), MW-5 (4,200 ppb), MW-6 (200 ppb), and MW-7 (2,700 ppb);
- o Concentrations of ethylbenzene exceeded the MCL of 680 ppb in well MW-7 (1,200 ppb); and
- o Concentrations of xylene exceeded the MCL of 1750 ppb in wells MW-4 (3,500 ppb), MW-5 (14,000 ppb), and MW-7 (9,200).

Monitoring and Removal of Free Product

Floating product was measured and removed during monthly and quarterly monitoring episodes. Quantities of floating product are presented in Table 3, Approximate Cumulative Product Recovered. The total year-to-date recovered product is approximately 2.26 gallons.

Conclusions and Recommendations

Groundwater at this site has been impacted by gasoline hydrocarbons. The extent of gasoline hydrocarbons has not been delineated. A draft subsurface report, which includes a proposal for additional work was submitted to ARCO in October 1991. When ARCO's



comments have been incorporated into the report, the final report will be sent to the appropriate regulatory agencies.

RESNA recommends continued monthly site visits for water levels and floating product removal; quarterly sampling of all wells that do not contain floating petroleum hydrocarbons or sheen; and analyses for TPHg and BTEX by EPA Standard Method 5030/8015/8020. Further recommendations will be submitted under separate cover.

Schedule

RESNA will continue to measure water and product levels and remove product on a monthly basis, and sample groundwater on a quarterly basis to evaluate trends in gasoline hydrocarbons and changes in groundwater gradient over time. Routine well maintenance and quality control will be performed as necessary during these site visits. The next quarterly monitoring episode is scheduled for October 30, 1991.

RESNA also recommends that copies of this letter report be forwarded to:

Mr. Larry Seto
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Mr. Randy Griffith
Livermore Fire Department
4550 East Avenue
Livermore, California 94550



If you have any questions or comments, please call us at (408) 264-7723.

Sincerely, RESNA

L. J. Leet Lou Leet

Geologic Technician

Joan E. Tiernan Registered Civil

Jan EIn

Engineer 044600

cc: W. C. Winsor, ARCO Product Company

Enclosures: References

Plate 1, Site Vicinity Map Plate 2, Generalized Site Plan

Plate 3, Groundwater Gradient Map, June 20, 1991 Plate 4, Groundwater Gradient Map, July 25, 1991

Plate 5, Groundwater Gradient Map, August 13, 1991

Plate 6, Groundwater Gradient Map, September 12, 1991

Plate 7, TPHg Concentration Map, July 25, 1991 Plate 8, Benzene Concentration Map, July 25, 1991

Table 1, Cumulative Groundwater Monitoring Data

Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples

Table 3, Approximate Cumulative Product Removed

Appendix A: Groundwater Sampling Protocol
Chain of Custody Records
Laboratory Analysis Reports
Uniform Hazardous Waste Manifest



REFERENCES

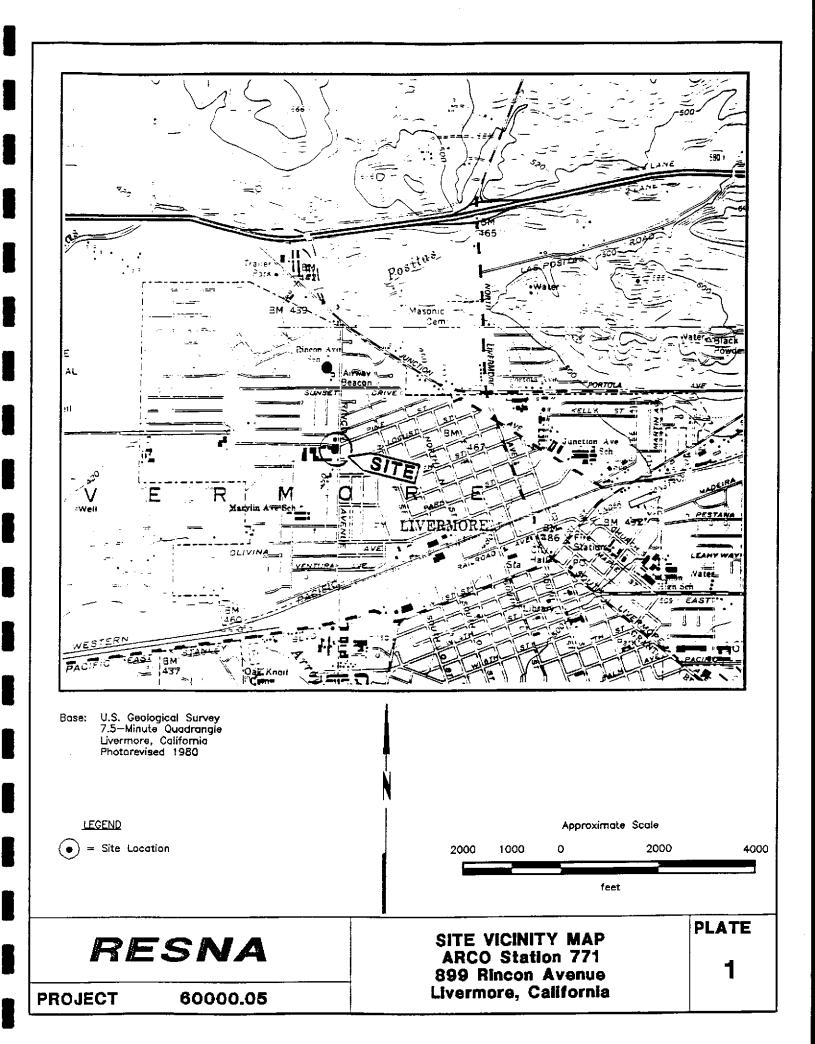
Applied GeoSystems, June 22, 1990. <u>Limited Subsurface Environmental Assessment, ARCO Station No. 771</u>, <u>Livermore, California</u>. AGS 60000-1.

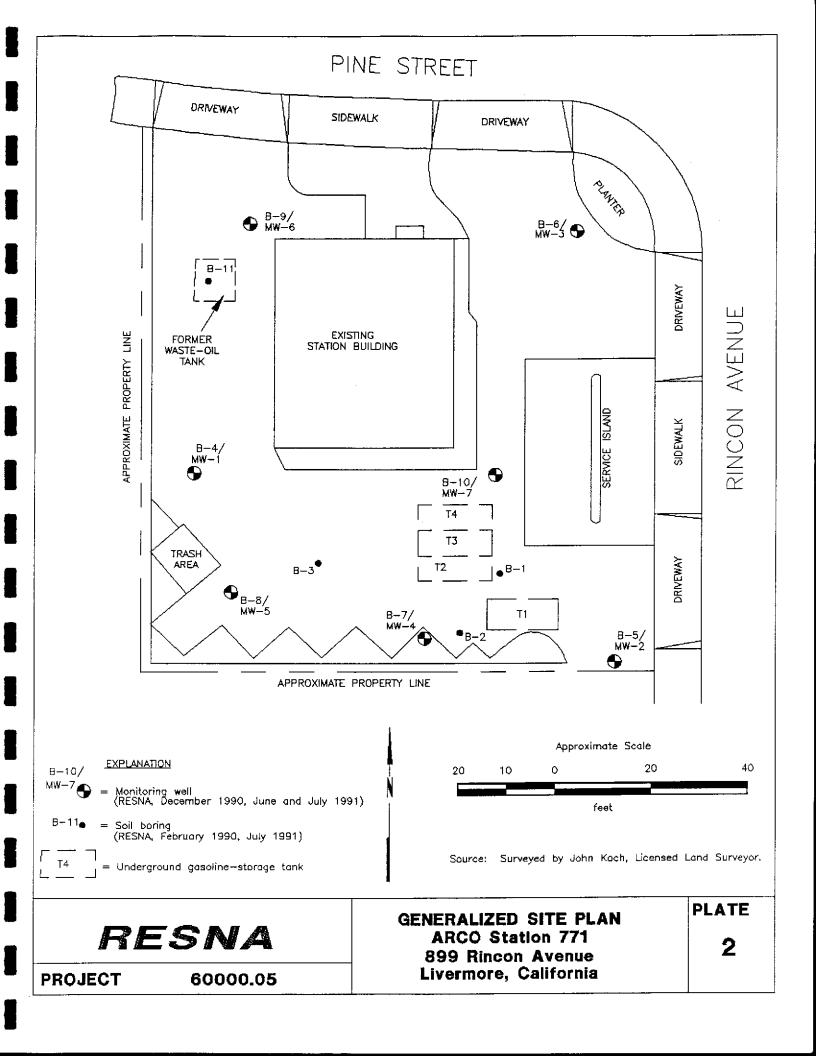
RESNA/Applied Geosystems, April 12, 1991. <u>Supplemental Subsurface Investigation at ARCO Station No. 771, Livermore, California</u>. AGS 60000.04.

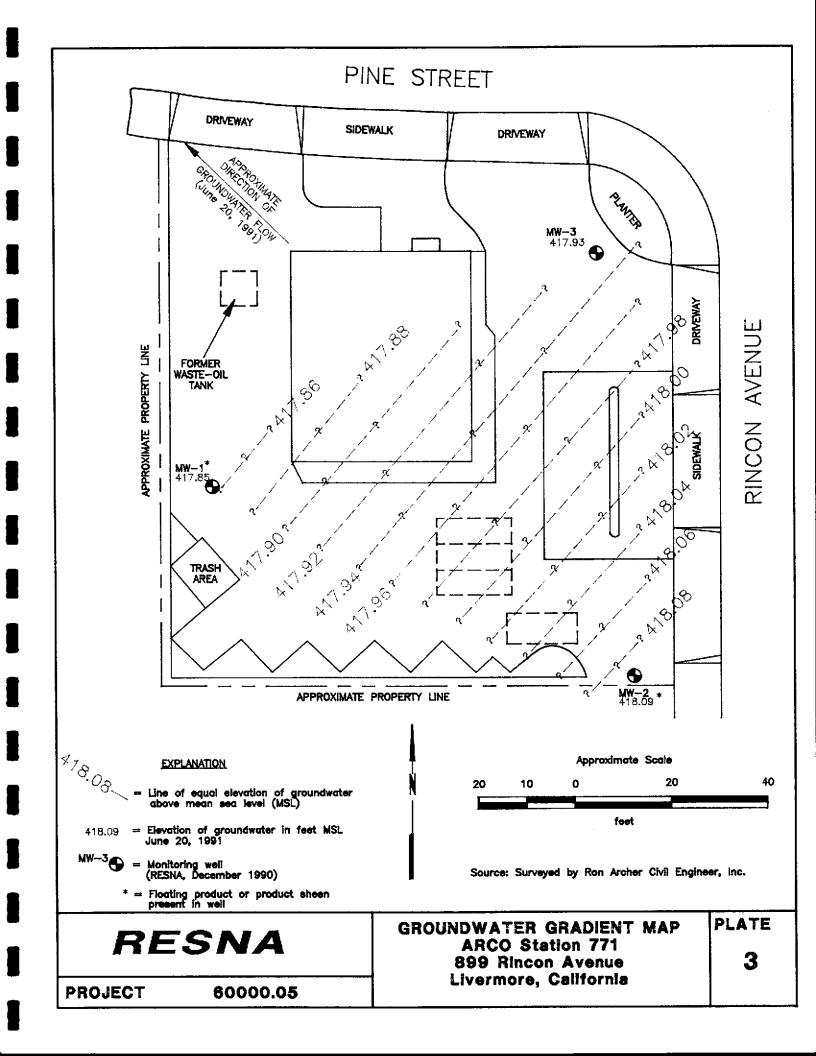
RESNA/Applied GeoSystems, July 12, 1991. <u>Letter Report Quarterly Ground-Water Monitoring Second Quarter 1991 at ARCO Station 771, 899 Rincon Avenue, Livermore, California</u>. AGS 60000.05

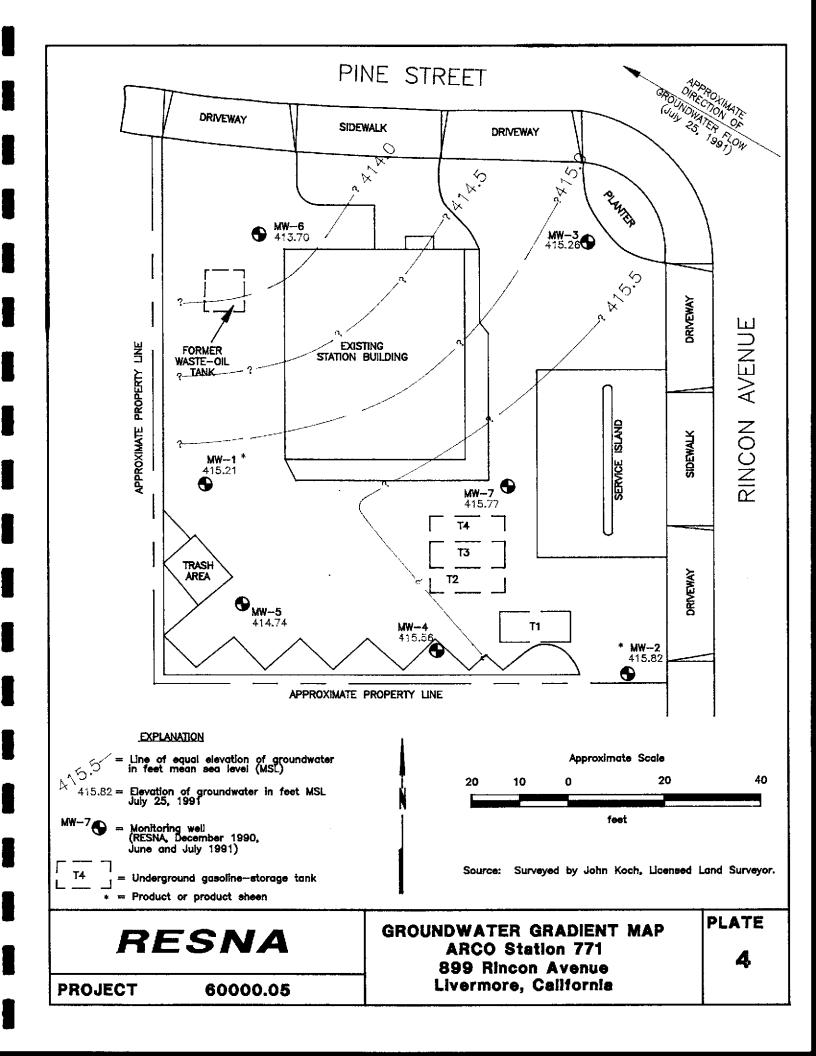
RESNA/Applied GeoSystems, October 9, 1991. <u>Draft Report on Additional Subsurface Investigation at ARCO Station 771, 899 Rincon Avenue, Livermore, California</u>. 60000.06

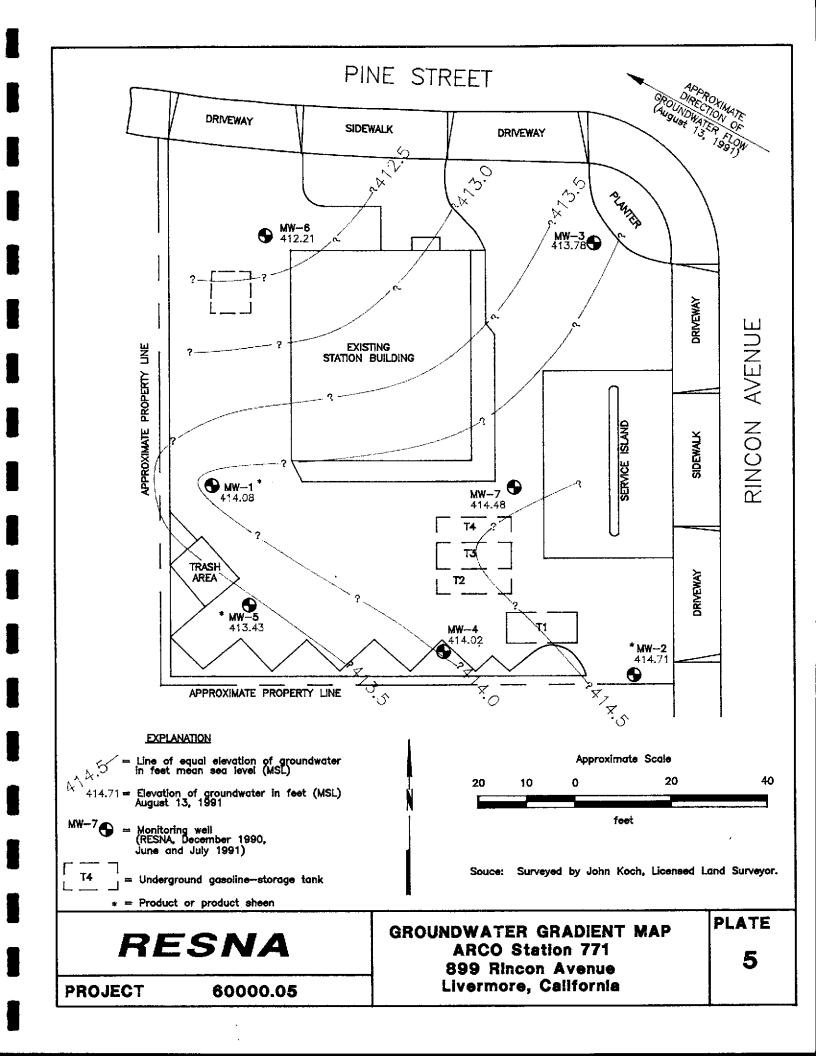


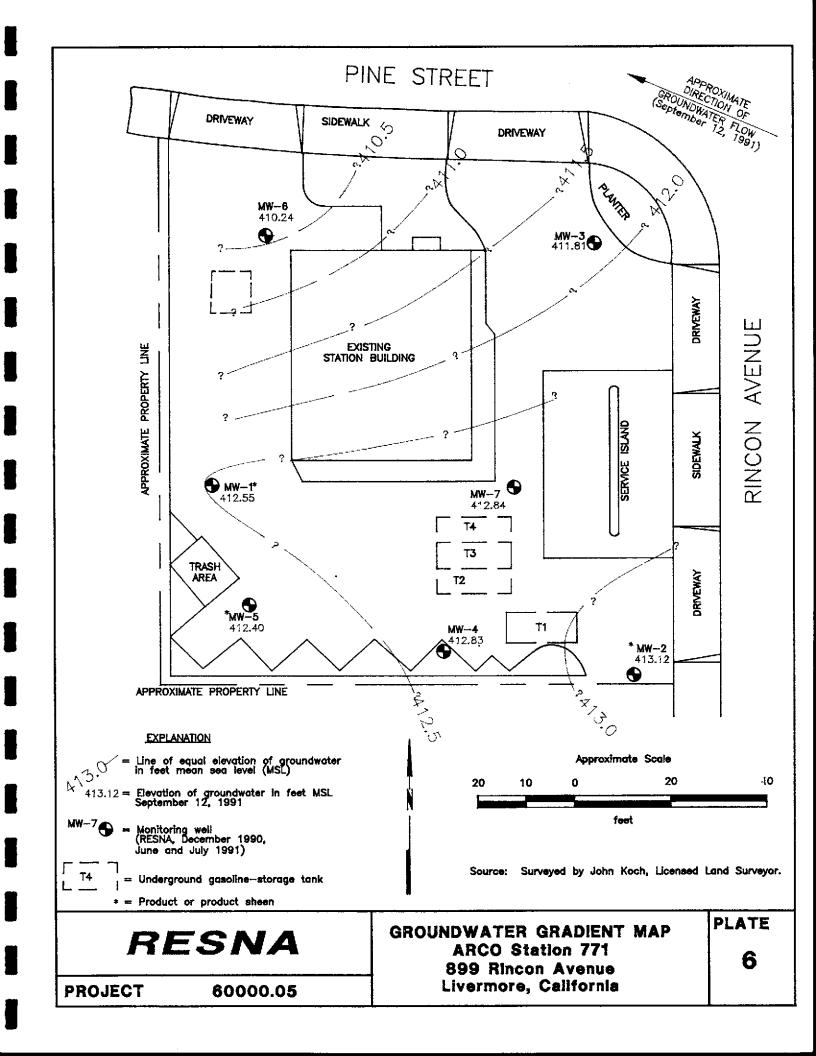


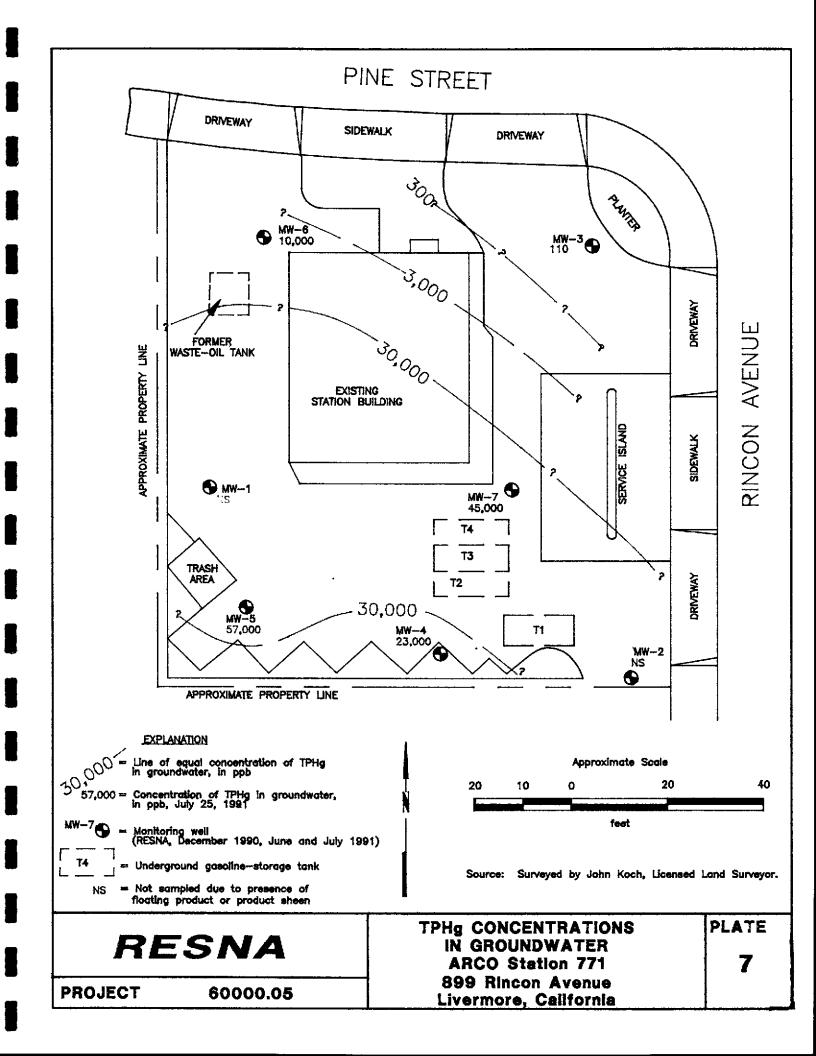












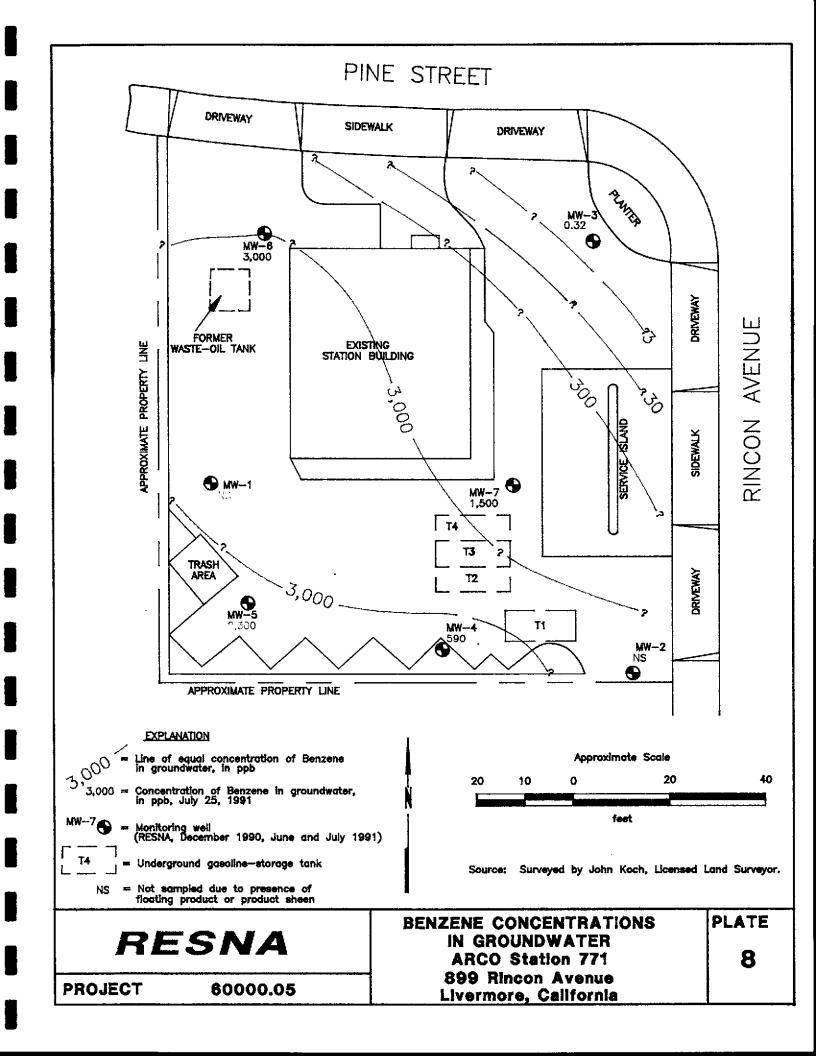


TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 771
Livermore, California

(Page 1 of 2)

Date Measured	Well Elevation	Depth-to- Water	Water Elevation	Floating Product
 MW-1				
01-15-91	451.80**	32,77	419.03	Sheen
02-27-91		32.23	419.57	None
03-20-91		27.38	424.42	Sheen
04-10-91		26.49	425.31	None
05-20-91	451.80***	NM	NM	Sheen
06-20-91		33.95	417.85	Sheen
07-25-91		36.59*	415.21*	0.10
08-13-91		37.72*	414.08*	0.20
09-12-91		39.25*	412.55*	0.23
MW-2				
01-15-91	449.52**	30.89*	418.63*	0.16
02-27-91		29.11*	420.41*	0.02
03-20-91		24.57*	424.95*	0.02
04-10-91		22.85*	426.67*	0.05
05-20-91	449.51***	NM	NM	NM
06-20-91		31.42*	418.09*	0.15
07-25-91		33.69*	415.82*	0.49
08-13-91		34.80*	414.71*	0.47
09-12-91		36.39*	413.12*	0.45
<u>MW-3</u>				
01-15-91	450.29**	32.34	417.95	None
02-27-91		31.78	418.51	None
03-20-91		27.74	422.55	None
04-10-91		25.05	425.24	None
05-20-91	450.28***	27.06	423.22	None
06-20-91		32.35	417.93	None
07-25-91		35.02	415.26	None
08-13-91		36.50	413.78	None
09-12-91		38.47	411.81	None

See notes on Page 2 of 2.



TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 771 Livermore, California (Page 2 of 2)

Date Measured	Well Elevation	Depth-to- Water	Water Elevation	Floating Product	
<u>M</u> W-4					
07-25-91	451.56***	36.07	415.49	None	
08-13-91		37.54	414.02	None	
09-12-91		38.73	412.83	None	
<u>MW-5</u>					
07-25-91	451.41***	36.67	414.74	Sheen	
08-13-91		37.98*	413.43*	0.01	
09-12-91		39.01*	412.40*	0.05	
<u>MW-6</u>					
07-25-91	451.38***	37.68	413.70	None	
08-13-91		39.17	412.21	None	
09-12-91		41.14	410.24	None	
<u>MW-7</u>					
07-25-91	450.65***	34.88	415.77	Sheen	
08-13-91		36.17	414.48	None	
09-12-91		37.81	412.84	None	

Measurements in feet.

Calculated DTW when floating product is present is calculated using the attached protocol (Appendix A).

- * = Floating product present in well.
- ** = Surveyed by Ron Archer, Civil Engineer, in January 1991.
- *** = Surveyed by John Koch, Licensed Land Surveyor, in July 1991.
- NM = Not measured (instrument failure--interface probe).

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
ARCO Station 771
Livermore, California
(Page 1 of 2)

Sample	TPHg	В	Т	E	X	
MW-1						_
01-15-91	No	ot sampledshe	en			
04-10-91	98,000	11,000	18,000	2,800	20,000	
07-25-91	Not sar	npledfloating	product			
<u>MW-2</u>						
01-15-91	Not san	npledfloating	product			
04-10-91	Not san	npledfloating	product			
07-25-91	Not san	npledfloating	product			
<u>MW-3</u>						
01-15 - 91	230	< 0.5	< 0.5	2.2	2.1	
04-10-91	530	12	8.4	4.0	7.0	
07-25-91	110	0.32	0.75	1.2	1.0	
<u>MW-4</u>						
07-25-91	23,000	590	730	360	3,500	
<u>MW-5</u>						
07-25-91	57,000	2,300	4,200	77	14,000	
MCLs		1		680	1,750	
ALs			100		***	

See notes on Page 2 of 2.



TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES ARCO Station 771 Livermore, California (Page 2 of 2)

Sample	TPHg	В	T	E	X	
<u>MW-6</u> 07-25-91	10,000	3,000	200	340	1,000	
<u>MW-7</u> 07-25-91	45,000	1,500	2,700	1,200	9,200	
MCLs ALs		1	100	680 	1,750 	

Results in parts per billion (ppb).

TPHg: Total petroleum hydrocarbons as gasoline (measured by EPA Method 5030/8015).

B: Benzene T: toluene E: ethylbenzene X: total xylene isomers

BTEX: Measured by EPA Method 8020/602.

NS: Not sampled due to floating product or sheen.

<: Less than the laboratory detection limit.

MCL: State Maximum Contaminant Level in ppb.

AL: State Recommended Action Level in ppb.

TABLE 3 APPROXIMATE CUMULATIVE PRODUCT REMOVED ARCO Station 771 Livermore, California

Date	Floa	ting Product Rem (gallons)	oved	
MW-1				
01-15-91		0.1 (sheen)		
02-27-91		None present		
03-20-91		0.1 (sheen)		
04-10-91		None present		
05-20-91		0.1 (sheen)		
06-20-91		0.1 (sheen)		
07-25-91		0.06		
08-13-91		0.12		
09-12-91		0.14		
<u>MW-2</u>				
01-15-91		0.1		
02-27-91		0.01		
03-20-91		0.01		
04-10-91		0.03		
05-20-91		0.01		
06-20-91		0.5		
07-25-91		0.29		
08-13-91		0.28		
09-12-91		0.27		
<u>MW-5</u>				
08-13-91		0.01		
09-12-91		0.03		
	Total:	2.26 Gallons		



APPENDIX A GROUNDWATER SAMPLING PROTOCOL CHAIN OF CUSTODY RECORDS LABORATORY ANALYSIS REPORTS UNIFORM HAZARDOUS WASTE MANIFEST

GROUNDWATER SAMPLING PROTOCOL

The static water level in each well that contained water was measured with a Solinst® water-level indicator; this instrument is accurate to the nearest 0.01 foot. These groundwater depths were subtracted from wellhead elevations measured by Ron Archer, Civil Engineer, Inc., of Pleasanton, California, and John Koch of Oakland, California, licensed land surveyors, to calculate the differences in groundwater elevations.

The static water level in each well that was suspected to contain floating product was measured with an ORS® interface probe; this instrument is accurate to the nearest 0.01 foot. The probe contains two different sensor units, one for detecting the liquid/air interface, and one for distinguishing between water and hydrocarbon. The thickness of the floating product and the groundwater depths were recorded. The recorded thickness of the floating product was then multiplied by 0.80 to obtain an approximate value for the displacement of water by the floating product. This approximate displacement value is then subtracted from the measured depth to water to obtain a calculated depth to water. These calculated groundwater depths were subtracted from wellhead elevations to calculate the differences in groundwater elevations.

Water samples collected for subjective evaluation were collected by gently lowering approximately half the length of a new, disposable bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples were checked for evidence of free hydrocarbon product.

Before water samples were collected from the groundwater monitoring wells, the wells were purged until stabilization of the temperature, pH, and conductivity was obtained. Approximately 3 well casing volumes of water were purged before these characteristics stabilized. The quantity of water purged from the wells was calculated as follows:

1 well casing volume = $\pi r^2 h(7.48)$ where:

r = radius of the well casing in feet.

h = column of water in the well in feet (well depth - depth to water).

7.48 = conversion constant from cubic feet to gallons.

Gallons of water purged/gallons in 1 well casing volume = well casing volume removed.

After purging, each well was allowed to recharge to within 80% of the initial water level. Water samples were then collected with a new, disposable bailer. The water samples were



carefully poured into 40-milliliter glass vials, which were filled so as to produce a positive meniscus. Each sample container was preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples were promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory. Purge water was removed by H & H Ship Services, a licensed hazardous waste hauler. The Uniform Hazardous Waste Manifest is attached.

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Applied GeoSystems

Client Project ID: ARCO 771, Livermore

3315 Almaden Expressway, Ste 34

San Jose, CA 95118

Attention: Joel Coffman

QC Sample Group: 1074899-900, 902

Reported:

Aug 7, 1991

### **QUALITY CONTROL DATA REPORT**

Method:         EPA 8020
Analyst: M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Nguyen M. Ngu
Reporting Units:         μg/L
QC Sample #:         GBLK073191 MS/MSD         GBLK073191 MS/MSD         GBLK073191 MS/MSD         GBLK073191 MS/MSD         GBLK073191 MS/MSD         MS/MSD         MS/MSD         MS/MSD         MS/MSD         MS/MSD         MS/MSD         MS/MSD         N.D.         N.D.         N.D.         N.D.         N.D.         N.D.         N.D.         Spike Conc.
MS/MSD MS/MSD MS/MSD MS/MSD  Sample Conc.: N.D. N.D. N.D. N.D.  Spike Conc.
Spike Conc.
Added: 10 10 10 30
Conc. Matrix
Spike: 11 11 11 32
Matrix Spike
% Recovery: 110 110 110 110
Conc. Matrix
Spike Dup.: 11 11 11 33
Matrix Spike
Duplicate           % Recovery:         110         110         110         110
70 110 110 110 110
Relative
% <b>Difference:</b> 0.0 0.0 0.0 3.1

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager % Recovery: Conc. of M.S. - Conc. of Sample x 100
Spike Conc. Added

Relative % Difference: Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

1074900

1074899.APG <2>



Applied GeoSystems

Client Project ID: ARCO 771, Livermore

3315 Almaden Expressway, Ste 34 San Jose, CA 95118

Attention: Joel Coffman

QC Sample Group: 1074901, 903

Reported:

Aug 7, 1991

### **QUALITY CONTROL DATA REPORT**

ANALYTE			Ethyl-	
	Benzene	Toluene	benzene	Xylenes
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 L Laikhtman μg/L Jul 31, 1991 GBLK073191 MS/MSD	EPA 8020 L. Laikhtman μg/L Jul 31, 1991 GBLK073191 MS/MSD	EPA 8020 L. Laikhtman μg/L Jul 31, 1991 GBLK073191 MS/MSD	EPA 8020 L. Laikhtman μg/L Jul 31, 1991 GBLK073191 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	11	11	11	32
Matrix Spike % Recovery:	110	110	110	110
Conc. Matrix Spike Dup.:	10	10	10	32
Matrix Spike Duplicate % Recovery:	100	100	100	110
Relative % Difference:	9.5	9.5	9.5	0.0

SEQUOIA ANALYTICAL

Project Manager

% Recovery:

Conc. of M.S. - Conc. of Sample Spike Conc. Added

x 100

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D.

x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

1074899.APG <3>

Applied GeoSystems 3315 Almaden Expressway, Ste 34 Matrix Descript:

San Jose, CA 95118 Attention: Joel Coffman Client Project ID:

ARCO 771, Livermore

Water

Analysis Method: EPA 5030/8015/8020 First Sample #: 107-4899 A-D

Sampled:

Jul 25, 1991 Jul 26, 1991

Received: Analyzed:

Jul 31, 1991

Aug 7, 1991 Reported:

### TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons μg/L (ppb)	Benzene μg/L (ppb)	<b>Toluene</b> μg/L (ppb)	Ethyl Benzene μg/L (ppb)	<b>Xylenes</b> μg/L (ppb)
107-4899	W-39-MW6	10,000	3,000	200	340	1,000
107-4900	W-39-MW7	45,000	1,500	2,700	1,200	9,200
107-4901	W-39-MW3	110	0.32	0.75	1.2	1.0
107-4902	W-39-MW4	23,000	590	730	360	3,500
107-4903	W-39-MW5	57,000	2,300	4,200	77	14,000

Detection Limits:	30	0.30	0.30	0.30	0.30	

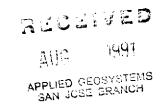
Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Project Manager

1074899.APG <1>





Applied GeoSystems 3315 Almaden Expressway, Ste 34 San Jose, CA 95118 Attention: Joel Coffman

Project: ARCO 771, Livermore

Enclosed are the results from 5 water samples received at Sequoia Analytical on July 26,1991. The requested analyses are listed below:

1074899	Water, W-39-MW6	7/25/91	EPA 5030/8015/8020
1074900	Water, W-39-MW7	7/25/91	EPA 5030/8015/8020
1074901	Water, W-39-MW3	7/25/91	EPA 5030/8015/8020
1074902	Water, W-39-MW4	7/25/91	EPA 5030/8015/8020
1074903	Water, W-39-MW5	7/25/91	EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Elizabeth W. Hackl Project Manager

print at type. Form designed for use on elite (12-pitch typewriter).  UNIFORM HAZARDOUS  1. Generator's US EPA ID No.					:: Secremento, Calif
WASTE MANIFEST   C A L 0 0 0 0 2 8 3 7 0 0	Manifest current No. 0   0   0   2		of 1 is not		he sheded areas by Federal law.
3. Generator's Name and Mailing Address ABCO			to Monitori Detail	90:	546574
P. O. Box 5811, San Mateo, CA 94402 4. Generator's Phone (415) 571-2434/571-2428		12.11	e Consuler's D	U _1 n	18880
5. Transporter 1 Company Name 6. US EPA ID Number	•	C. 30	de Transporter's A		
H & H Ship Service Company    C A D 0 0 4 7 7	1 1 6 8	I	espector's Phone		15) 543-483
7. Transporter 2 Company Name 8. US EPA ID Number	, , ,		de Transporter's K Reperter's Phone	<del> </del>	
9. Designated Facility Name and Site Address 10. US EPA ID Number			to Facility's (D	<del> </del>	
H & H Ship Service Company		ட	AIDIOIOIA	7 7	111681
220 China Basin Street			ility's Phone	·	4.0
San Francisco, CA 94107	1 1 6 8		15) 543-4 13, Total	835	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	No.	Туре	Quantity	Unit Wt/Vol	Change
i.					134
OIL AND WATER NON-RCRA HAZARDOUS WASTE LIQUID	01011	Tr I Tr	010101510	) c	EPA/Other
D. BOOK DIAGRAPHOUS WHAT S HITCH		***			State
		_			EPA/Other
	<u> </u>			-	State
					EPA/Other
·			1111		EPA/OZIA
					State
					EPA/Other
Additional Descriptions for Materials Listed Above		K. He	siling Codes for W	fastes Li	sted Above
FUEL, OIL AND WATER	,	a. 01	ĺ	<b>b.</b>	
Today old rate with	-		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	d.	
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PROPILE \$A0854					
5. Special Handling instructions and Additional Information	ייינים מחז		DOWN GRAFT	א זער	771
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JOB \$8115  24 Hr. Emergency Contact: H & H # (415) 543-4835  APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to	e fully and ac	8 I curately	99 Rincon	Cali	fornia
JOB \$8115  24 Hr. Emergency Contact: H & H # (415) 543-4835  APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition in national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generator.	e fully and ac or transport b se and toxicity , storage, or o penerator, i ha	Curately y highway	99 Rincon iversore; described above to a specific to the currently available	Cali	r shipping name international and
JOB \$8115  24 Rr. Emergency Contact: H & H # (415) 543-4835  APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition functional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volum to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I	e fully and ac or transport b se and toxicity , storage, or o penerator, i ha	Curately y highway	99 Rincon iversore; described above to a specific to the currently available	Cali	r shipping name international and likewa determined high minimizes the mixe my waste
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JOB \$8115  24 Hr. Emergency Contact: H & H # (415) 543-4835  APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.  16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the beat waste management method that is available to me and that I contend/Typed Name  Printed/Typed Name  EDWARD G. MILANO  B. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  Signature  Signature	e fully and ac for transport b and toxicity storage, or c generator, i ha can afford.	Curately y highway	99 Rincon iversore; described above to a specific to the currently available	Cali	shipping name international and I have determined hich minimizes the mize my waste    Month Day Ye   0   8   1   3   9
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