



ANATEC
LABORATORIES
INC.

AQUA RESOURCES, INC.
RECEIVED

JAN 5 1988

JOB NO. 87157.2

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

John Bajsarowicz
Aqua Resources
2030 Addison Way
Berkeley, CA 94704

December 27, 1987
ANATEC Log No: 1871 (1-5)
Series No: 424/007
Client Ref: Job 87157.2

Subject: ASAP Priority Analysis of Five Samples Received December 18, 1987.

Dear Mr. Bajsarowicz:

Analysis of the samples referenced above has been completed. This report is written to confirm results transmitted verbally on December 22, 1987.

Delivery to the laboratory was conducted under documented chain-of-custody. On receipt at the laboratory, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the samples and placed them in secured storage at 4°C until analysis commenced.

In preparation for benzene, toluene, xylene ("volatile aromatics") and volatile hydrocarbons measurements, aliquots of samples were taken from core centers with stainless steel implements, immediately weighed, and sealed in septum-capped vials. Additionally, vials were prepared in essentially the same fashion to represent method blanks, commercial gasoline standards, gasoline-fortified sample spikes and sample replicates. Each vial was heated at 90°C during which light hydrocarbons (such as gasoline) were expected to equilibrate in distribution between sample and headspace. Headspace gases were subsequently analyzed by gas chromatography to measure total light hydrocarbons. Response of the chromatographic system to samples was compared with response to standards prepared with commercial gasoline, and from reagent grade volatile aromatics for purposes of qualitative and quantitative interpretation.

Samples were prepared for extractable hydrocarbons measurements by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus.



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Samples were prepared for extractable hydrocarbons measurements by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus.



Extracts were then analyzed by capillary column gas chromatography with flame ionization detection. Preparation and analysis of samples was accompanied by similar treatment of a method blank and a diesel-fortified sample. Response of the chromatographic system to calibration standards prepared with commercial diesel was compared with system response to samples for purposes of qualitative and quantitative interpretation.

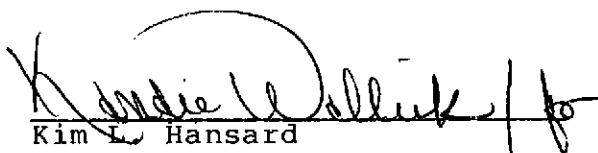
Details of the analytical methodologies are consistent with requirements specified in Methods "I" and "II" ("Total Fuel Hydrocarbons, Low-to-Medium Boiling Point Hydrocarbons" and "Total Fuel Hydrocarbons, Medium-to-High Boiling Point Hydrocarbons," respectively) in "Guidelines for Addressing Fuel Leaks," Regional Water Quality Control Board, San Francisco Bay Region, revised 1986; the preparation procedures used are described in detail in "Headspace Method," Method 5020 for gasoline, and "Sonication Extraction," Method 3550 for diesel, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA, SW-846, 2nd edition, revised 1984.

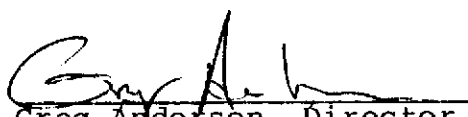
To measure "total" (acid-recoverable) lead, portions of the samples were digested with appropriate mineral acids and heat and subsequently diluted with reagent water. The digests were analyzed using inductively coupled argon plasma atomic emission spectroscopy following Method 6010 available in "Test Methods for Evaluating Solid Waste," U.S. EPA SW-846, Volume 1A: Laboratory Manual Physical/Chemical Methods, Third Edition, November 1986.

Results of analyses are summarized in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Approved by:


Kim L. Hansard
Project Chemist


Greg Anderson, Director
Analytical Laboratories

/ml



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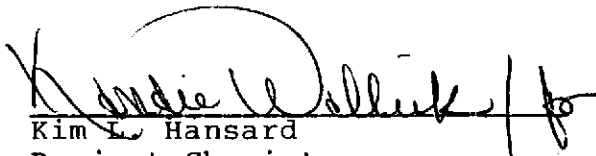
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TABLE 1. SUMMARIZED ANALYTICAL RESULTS

Parameter	Descriptor, Lab No. & Results (mg/Kg) ^a				
	L-1 6' 12/18 (2951)	L-2 4' 12/18 (2952)	L-3 4' 12/18 (2953)	L-4 4' 12/18 (2954)	L-6 10' 12/18 (2955)
Volatile petroleum hydrocarbons, as gasoline	<10	<10	<10	<10	<10
Extractable petroleum hydrocarbons, as diesel	<10	<10	<10	71	<10
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	0.006	<0.005
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.015
Lead	49	57	46	49	65

^amg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.



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Toluene	<0.005	<0.005	<0.005	0.006	<0.005
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.015
Lead	49	57	46	49	65

^amg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.

BORING LOCATION	L-1	ELEVATION AND DATUM	
DRILLING CONTRACTOR	HEW Drilling Co.	DATE STARTED	12/18/87
DRILLER		DATE FINISHED	12/18/87
EQUIPMENT	CME-55 Solid Flight Auger	COMPLETION DEPTH (FT)	10
DIAMETER OF BORING	6-inch	NO. OF SAMPLES	0
PURPOSE OF BORING		WATER DEPTH (FT)	
SAMPLING EQUIPMENT	2½-inch split barrel	LOGGED BY:	David Church
COMMENTS		CHECKED BY:	

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/ MIN.	
	Silty gravel						BL=Brass Liner
	Silt with trace gravel						
	Gravel, coarse						
5			1	BL			
10	Boring terminated at 10 feet No free water encountered		2	BL			
15							
20							
25							
30							

Project	Livermore Superblock	LOG OF BORING	Fig.
Project No.	87157.2		

BORING LOCATION	L-1	ELEVATION AND DATE	
DRILLING CONTRACTOR	HEW Drilling Co.	DATE	12/18/87
DRILLER		START DEPTH (FT)	10
EQUIPMENT	CME-55 Solid Flight Auger	NO. OF SAMPLES	0
DIAMETER OF BORING	6-inch	WATER DEPTH (FT)	FIRST
PURPOSE OF BORING		LOGGED BY:	David Church
SAMPLING EQUIPMENT	2½-inch split barrel	DATE FINISHED	12/18/87
COMMENTS		ROCK DEPTH (FT)	
		ORIG. DIST.	2
		COMPL.	24 HRS.
		CHECKED BY:	

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
	Silty gravel						BL=Brass Liner
	Silt with trace gravel						
	Gravel, coarse						
5			1	BL			
10	Boring terminated at 10 feet No free water encountered		2	BL			
15							
20							
25							
30							

Project Livermore Superblock
Project No. 87157.2

LOG OF BORING

Fig.

BORING LOCATION L-2	DRILLER	ELEVATION AND DATE	DATE FINISHED 12/18/87
CONTRACTOR HEW Drilling Co.		DATE STARTED 12/18/87	ROCK DEPTH (FT) UNDIST. 2
EQUIPMENT CME-55 solid Flight Auger		COMPLETION DEPTH (FT) 11	CORE
DIAMETER 6-inch		NO. OF DIST. 0	COMPL. 24 HRS.
PURPOSE OF BORING		SAMPLES WATER FIRST	CHECKED BY:
SAMPLING EQUIPMENT 2½-inch split barrel		DEPTH (FT) LOGGED BY:	
COMMENTS	David Church		

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
0 - 5	Gravelly silt						BL=Brass Liner
5 - 10	Silty gravel		1	BL			
10 - 11	Boring terminated at 11 feet No free water encountered		2	BL			

Project Livermore Superblock	LOG OF BORING	Fig.
Project No. 87157.2		

BORING LOCATION	L-2	ELEVATION AND DATE	
DRILLING CONTRACTOR	HEW Drilling Co.	DATE STARTED	12/18/87
DRILLING EQUIPMENT	CME-55 solid Flight Auger	COMPLETION DEPTH (FT)	11
DIAMETER OF BORING	6-inch	NO. OF SAMPLES	0
PURPOSE OF BORING		WATER DEPTH (FT)	FIRST
SAMPLING EQUIPMENT	2 1/2-inch split barrel	LOGGED BY:	David Church
COMMENTS		CHECKED BY:	

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
	Gravelly silt						BL=Brass Liner
5	Silty gravel		1	BL			
10	Boring terminated at 11 feet No free water encountered		2	BL			
15							
20							
25							
30							

Project Livermore Superblock
Project No. 87157.2

LOG OF BORING

Fig.

BORING LOCATION L-3	DRILLER	ELEVATION AND DOWN	DATE FINISHED 12/18/87
DRILLING CONTRACTOR HEW Drilling Co.		DATE STARTED 12/18/87	ROCK DEPTH (FT)
DRILLING EQUIPMENT CME-55 Solid Flight Auger		COMPLETION DEPTH (FT) 10½	NO. OF DIST. 2 CORE
DIAMETER OF BORING 6-inch		NO. OF SAMPLES 0	COMPL. 24 HRS.
PURPOSE OF BORING		WATER FIRST DEPTH (FT)	CHECKED BY:
SAMPLING EQUIPMENT 2½-inch split barrel		LOGGED BY: David Church	
COMMENTS			

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
	Silty gravel						BL=Brass Liner
	Clay		1	BL			
5	Silty gravel, coarse size gravel, some clay						
	Sandy gravel						
10	Boring terminated at 10½ feet No free water encountered		2	BL			
15							
20							
25							
30							

Project Livermore Superblock	LOG OF BORING	Fig.
Project No. 87157.2		

BORING LOCATION	L-3	ELEVATION AND DATE	
DRILLING CONTRACTOR	HEW Drilling Co.	DATE STARTED	12/18/87
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	COMPLETION DEPTH (FI)	10½
DIAMETER OF BORING	6-inch	NO. OF DIST. SAMPLES	0
PURPOSE OF BORING		WATER DEPTH (FI)	FIRST
SAMPLING EQUIPMENT	2½-inch split barrel	LOGGED BY:	David Church
COMMENTS		CHECKED BY:	
		DATE FINISHED	12/18/87
		ROCK DEPTH (FI)	
		UNGST. 2	CORE
		COMPL.	24 HRS.

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/FT. MIN.	
	Silty gravel						BL=Brass Liner
	Clay		1	BL			
5	Silty gravel, coarse size gravel, some clay						
	Sandy gravel						
10	Boring terminated at 10½ feet No free water encountered		2	BL			
15							
20							
25							
30							

Project Livermore Superblock
Project No. 87157.2

LOG OF BORING

Fig.

BORING LOCATION	L-4	ELEVATION AND DATE	DATE	12/18/87	DATE FINISHED	12/18/87
DRILLING CONTRACTOR	HEW Drilling Co.	DRILLER	STABILIZATION		ROCK DEPTH (FT)	
DRILLING EQUIPMENT	CME-55 Solid Flight Auger		COMPLETION DEPTH (FT)	10	UNDIST. 2	CORE
DIAMETER OF BORING	6-inch		NO. OF SAMPLES	0	WATER DEPTH (FT)	24 HRS.
PURPOSE OF BORING			LOGGED BY:	David Church	CHECKED BY:	
SAMPLING EQUIPMENT	2½-inch split barrel					
COMMENTS						

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES			DRILLING RATE/FT-MIN	REMARKS
			NO.	TYPE	BLOW COUNT		
0	Gravel						BL-Brass Liner
	Clay						
	Clayey gravel		1	BL			
5							
10	Boring terminated at 10 feet No free water encountered		2	BL			
15							
20							
25							
30							

Project	Livermore Superblock	LOG OF BORING	Fig.
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BORING LOCATION	L-4	ELEVATION AND DATE	
DRILLING CONTRACTOR	HEW Drilling Co.	DATE	12/18/87
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	START DATE	
DIAMETER OF BORING	6-inch	COMPLETION DEPTH (FT)	10
PURPOSE OF BORING		NO. OF DIST. SAMPLES	0
SAMPLING EQUIPMENT	2½-inch split barrel	WATER DEPTH (FT)	
COMMENTS		LOGGED BY:	David Church
		DATE FINISHED	12/18/87
		ROCK DEPTH (FT)	
		UNDIST. CORE	2
		COMPL.	24 HRS.
		CHECKED BY:	

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES			REMARKS
			NO.	TYPE	BLOW COUNT	
0	Gravel					BL-Brass Liner
	Clay		1	BL		
5	Clayey gravel					
10	Boring terminated at 10 feet No free water encountered		2	BL		
15						
20						
25						
30						

Project	Livermore Superblock	LOG OF BORING	Fig.
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BORING LOCATION	L-5	ELEVATION AND DATE	
DRILLING CONTRACTOR	HEW Drilling Co.	DRILLER	
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	DATE STARTED	12/18/87
DIAMETER OF BORING	6-inch	COMPLETION DEPTH (FT)	10
PURPOSE OF BORING		NO. OF SAMPLES	0
SAMPLING EQUIPMENT	2½-inch split barrel	WATER DEPTH (FT)	FIRST
COMMENTS		LOGGED BY:	DAVID CHURCH
			DATE FINISHED 12/18/87
			ROCK DEPTH (FT)
			OR DIST. 2 CORE
			COMPL. 24 HRS.
			CHECKED BY:

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
0	Gravel						BL=Brass Liner
1	Clayey gravel						
2	Clay						
5	Clayey sand, trace fine size gravel		1	BL			
10	Clayey gravel						
10	Boring terminated at 10 feet No free water encountered		2	BL			
15							
20							
25							
30							

Project	Livermore Superblock	LOG OF BORING	Fig.
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BORING LOCATION	L-5	ELEVATION AND DATE	12/18/87	DATE FINISHED	12/18/87
DRILLING CONTRACTOR	HEW Drilling Co.	DRILLER		ROCK DEPTH (FEET)	
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	NO. OF SAMPLES	0	DEPTH (FEET)	2
DIAMETER OF BORING	6-inch	WATER DEPTH (FEET)		LOGGED BY:	DAVID CHURCH
PURPOSE OF BORING		LOGGED BY:	DAVID CHURCH	COMPL.	120 HRS.
SAMPLING EQUIPMENT	2 1/2-inch split barrel			CHECKED BY:	
COMMENTS					

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
0	Gravel						BL=Brass Liner
	Clayey gravel						
	Clay						
5	Clayey sand, trace fine size gravel		1	BL			
	Clayey gravel						
10	Boring terminated at 10 feet No free water encountered		2	BL			
15							
20							
25							
30							

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LOG OF BORING

Fig.

BORING LOCATION	L-6	ELEVATION AND DATE		DATE FINISHED	12/18/87
DRILLING CONTRACTOR	HEW Drilling Co.	DRILLER		ROCK	
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	STARTED	12/18/87	DEPTH (E1)	
DIAMETER OF BORING	6-inch	DEPTH (E1)	10	NO. OF DIST.	
PURPOSE OF BORING		SAMPLES	0	WATER FIRST DEPTH (FT)	
SAMPLING EQUIPMENT	2 1/2-inch split barrel	LOGGED BY:		COMPL.	2
COMMENTS				CHECKED BY:	

David Church

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
0	Gravel (ballast)						BL=Brass Liner
0-6	Gravelly silt, light brown		1	BL			
6-10	Sandy, silty gravel, dry						
10	Boring terminated at 10 feet No free water encountered		2	BL			
10-15							
15-20							
20-25							
25-30							

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LOG OF BORING

Fig.

BORING LOCATION	L-6	ELEVATION AND DATE	12/18/87	DATE FINISHED	12/18/87
DRILLING CONTRACTOR	HEW Drilling Co.	DRILLER		ROCK	
DRILLING EQUIPMENT	CME-55 Solid Flight Auger	STARTED COMPLETION DEPTH (FT)	10	DEPTH (FT)	
DIAMETER OF BORING	6-inch	NO. OF SAMPLES	0	NO. OF CORES	1
PURPOSE OF BORING		RATER	FIRST	COMPL.	2
SAMPLING EQUIPMENT	2 1/2-inch split barrel	DEPTH (FT)		LOGGED BY:	
COMMENTS		LOGGED BY:	David Church	CHECKED BY:	

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLOW COUNT	DRILLING RATE/TIME	
0	Gravel (ballast)						BL=Brass Liner
0	Gravelly silt, light brown						
5							
10	Sandy, silty gravel, dry						
10	Boring terminated at 10 feet No free water encountered		1	BL			
15			2	BL			
20							
25							
30							

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LOG OF BORING

Fig.

BORING LOCATION L-7	DRILLER	ELEVATION AND DATE	DATE FINISHED 12/18/87
EQUIPMENT HEW Drilling Co.		STARTED 12/18/87	ROCK
DIAMETER CME-55 Solid Flight Auger		COMPLETION DEPTH (FEET) 11	NO. OF DIST. 1
PURPOSE OF BORING 6-inch		SAMPLES 0	COMPL. 2 1/2 HRS.
SAMPLING EQUIPMENT 2 1/2-inch split barrel		LOGGED BY: David Church	CHECKED BY:

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	LITHOLOGY	SAMPLES			REMARKS
				NO.	TYPE	BLOW COUNT	
0	Silty gravel						BL=Brass Liner
1	Clay, red						
2	Gravelly clay			1	BL		
5							
10							
11	Boring terminated at 11 feet No free water encountered			2	BL		
15							
20							
25							
30							

Project Livermore Superblock
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LOG OF BORING

Fig.

BORING LOCATION L-7	ELEVATION AND DATE	DATE FINISHED 12/18/87
DRILLING CONTRACTOR HEW Drilling Co.	DRILLER	DATE STARTED 12/18/87
EQUIPMENT CME-55 Solid Flight Auger	NO. OF DIST. 11	ROCK (FEET)
DIAMETER OF BORING 6-inch	SAMPLES 0	NO. OF CORES 2
PURPOSE OF BORING 2 1/2-inch split barrel	WATER FIRST DEPTH (FEET)	COMPL. 2 1/2 HRS.
EQUIPMENT COMMENTS	LOGGED BY: David Church	CHECKED BY:

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG LITHOLOGY	SAMPLES				REMARKS
			NO.	TYPE	BLCH COUNT	DRILLING RATE/TIME	
	Silty gravel						BL=Brass Liner
	Clay, red						
	Gravelly clay		1	BL			
5							
10			2	BL			
	Boring terminated at 11 feet No free water encountered						
15							
20							
25							
30							

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LOG OF BORING

Fig.