

September 21, 1989

Barnett Range Corporation Mill Springs Park Apartment Field Office 1799 Railroad Avenue Livermore, CA 94550

87157.6

Mr. Larry Malcolm Attn:

Subject: Quarterly Report on Chemical Analyses on

Groundwater Samples from Monitoring Well

Mill Springs Park Apartments (formerly Livermore Superblock)

Livermore, California

Dear Larry:

As we discussed, the results of the chemical analyses performed on groundwater samples obtained on August 1, 1989, showed 5 ppb of benzene. Based on previous results from the sampling done on May 2, 1989, which showed benzene not detectible above 1 ppb (the method detection limit), and previous laboratory analyses during site remediation, we felt this was a laboratory error.

The monitoring well was re-sampled on September 1, 1989. A travel blank (sample #2T on the chain of custody) was submitted to the laboratory, along with the sample from the monitoring well (#1T on the chain of custody) for QA/QC purposes. The chemical analyses were repeated, and the results showed benzene not detectible above the 1 ppb detection.

Therefore, we believe that the benzene detected in the August 1, 1989 sample interval is a laboratory error, and not a constituent in the groundwater.

Copies of the chain of custody and the lab analyses for the August 1 and September 1 sample intervals are enclosed for your files.

Very truly yours, AOUA RESOURCES INC.

Mark Milani, P.E.

Project Manager

cc: Alameda County Health Agency Dept. of Environmental Health Hazardous Materials Division Attn: Mr. Lowell Miller

> Regional Water Quality Control Board San Francisco Region Attn: Ms. Lisa McCann



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 08/01/89

DATE REPORTED: 08/09/89

PAGE 1 OF 3

LAB NUMBER: 17928

CLIENT: AQUA RESOURCES

REPORT ON: 1 WATER SAMPLE

JOB #: 87157.6

PROJECT NAME: BARNETT RANGE

RESULTS: SEE ATTACHED

Laboratory Directo

Berkeley

Wilmington

Los Angeles



LABORATORY NUMBER: 17928 CLIENT: AQUA RESOURCES

PROJECT #: 87157.6

PROFECT NAME: BARNETT RANGE

DATE RECEIVED: 08/01/89 DATE ANALYZED: 08/03/89 DATE REPORTED: 08/09/89

PAGE 2 OF 3

Extractable Petroleum Hydrocarbons in Aqueous Solutions EPA 8015 (Modified) Extraction Method: EPA 3510

LAB ID	CLIENT ID	GASOLINE (mg/L)	KEROSINE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
17928	MW-1	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

RPD, % Spike: % Recovery

7 95



LABORATORY NUMBER: 17928 CLIENT: AQUA RESOURCES JOB NUMBER: 87157.6

PROJECT NAME: BARNETT RANGE

DATE RECEIVED: 08/01/89
DATE ANALYZED: 08/08/89
DATE REPORTED: 08/09/89

PAGE 3 OF 3

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)
17928	MW-1	5	ND(1)	ND(1)	ND(1)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

 %RPD
 5

 %RECOVERY
 95

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DATE RECEIVED: 09/01/89 DATE REPORTED: 09/13/89

PAGE 1 OF 3

LAB NUMBER: 18172

CLIENT: AQUA RESOURCES, INC.

REPORT ON: 2 WATER SAMPLES

JOB #: 87157.6

LOCATION: LIVERMORE

RESULTS: SEE ATTACHED

QA/QC Officer

Laboratory Director

Berkeley

Wilmington

Los Angeles



LABORATORY NUMBER: 18172 CLIENT: AQUA RESOURCES

PROJECT #: 87157.6 LOCATION: LIVERMORE DATE RECEIVED: 09/01/89 DATE ANALYZED: 09/07/89 DATE REPORTED: 09/13/89

PAGE 2 OF 3

Extractable Petroleum Hydrocarbons in Aqueous Solutions EPA 8015 (Modified) Extraction Method: EPA 3510

LAB ID	CLIENT ID	GASOLINE (mg/L)	KEROSENE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)	
18172-1	1 T	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	
18172-2	2T	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY RPD, % Spike: % Recovery 8



LABORATORY NUMBER: 18172 CLIENT: AQUA RESOURCES

JOB NUMBER: 87157.6

JOB LOCATION: LIVERMORE

DATE RECEIVED: 09/01/89 DATE ANALYZED: 09/13/89

DATE REPORTED: 09/13/89

PAGE 3 OF 3

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE TOLUENE		TOTAL XYLENES	ETHYL BENZENE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)
18172-1	117	ND(1)	ND(1)	ND(1)	ND(1)
18172-2	2Т	ND(1)	ND(1)	ND(1)	ND(1)

QA/QC SUMMARY

%RPD	<1
%RECOVERY	92
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	PROJEC	T NAME:	I NAME: LIVERMORE DATE 9/1/					
PROJECT NO.: 87157.6								
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