Harding Lawson Associates

ENVIRONMENTAL PROTECTION

96 AUG -1 AM 9: 44



July 25, 1996

34467 1

Mr. Jeff Christoff Blue Print Service Company 1057 Shary Circle Concord. California 94518

Quarterly Report
April 1, through June 30, 1996
Groundwater Remediation and Monitoring
Blue Print Service Facility
1700 Jefferson Street
Oakland, California

Dear Mr. Christoff:

This letter presents quarterly sampling results from the groundwater treatment system, groundwater monitoring wells, and groundwater extraction wells at the Blue Print Service facility at 1700 Jefferson Street, Oakland, California. This report is for the period of April 1, 1996 through June 30, 1996. This report is intended to satisfy quarterly groundwater monitoring and reporting required by the Alameda County Health Care Services Agency (Alameda County) and semiannual reporting required by the East Bay Municipal Utilities District (EBMUD).

BACKGROUND

Three underground gasoline storage tanks (USTs) were removed from the property in 1987 (Plate 1). Three groundwater monitoring wells were installed on the property to evaluate the distribution of petroleum hydrocarbons in the soil and groundwater and determine the direction of groundwater flow.

Gasoline was found floating on the surface of the groundwater in monitoring well MW-1. In January 1988, two additional monitoring wells (MW-1A and MW-4) were installed by Harding Lawson Associates (HLA) at the facility (Plate 1). One downgradient offsite monitoring well (MW-5) was installed by HLA in August 1988. Monitoring well MW-2 was destroyed during construction of the present facility.

The existing biodegradation groundwater treatment system began operating in June 1992. Groundwater is extracted from MW-1A and MW-4 for treatment in a 3,000-gallon bioreactor tank. The treated water from the bioreactor passes through three carbon adsorption vessels before being discharged to the sanitary sewer.

TREATMENT SYSTEM STATUS

During this reporting period, the groundwater treatment system has treated and discharged approximately 57,000 gallons of water to the sanitary sewer. Over this period, the daily discharge

July 25, 1996 34467 1 Mr. Jeff Christoff Blue Print Service Company Page 2

flow rates have averaged approximately 850 gallons per day. Total system down-time was approximately 14 days.

An HLA engineer or technician visits the site on a weekly basis to monitor the system performance, collect samples if necessary, and perform maintenance functions as needed.

TREATMENT SYSTEM SAMPLING AND ANALYSIS

In accordance with the letter from HLA to EBMUD dated December 13, 1995 presenting the results of effluent monitoring, HLA has sampled the treatment system effluent and carbon vessel influent and effluent at a frequency of every 30 days or 40,000 gallons of water discharged. The EBMUD Wastewater Discharge Permit (Account No. 500-68191) requires effluent monitoring on a quarterly basis. Treatment system effluent water samples were collected on April 18, 1996, June 5, 1996, and March 19, 1996. The sampling locations and analytical results are presented in Table 1. The laboratory reports are presented in Appendix A.

HLA collects water samples from brass sampling ports into 40-milliliter volatile organic analysis (VOA) vials. The water samples are placed in ice-chilled coolers and submitted to American Environmental Network Laboratory in Pleasant Hill, California, under chain-of-custody protocol for analysis. The samples are analyzed by EPA Test Method 8015 for total petroleum hydrocarbons as gasoline (TPHg) and EPA Test Method 8020 for benzene, toluene, ethylbenzene, and xylene (BTEX).

GROUNDWATER SAMPLING AND ANALYSIS

HLA sampled wells MW-1A, MW-3, MW-4, and MW-5 on June 11, 1996. During construction of the present BPS facility, well MW-2 was damaged and abandoned. Because of its proximity to MW-1A, well MW-1 is not sampled. Monitoring wells MW-3 and MW-5 were sampled after checking for separate-phase gasoline, measuring the water levels, purging at least three well volumes from each, and measuring the pH, conductivity, and temperature of the purge water. Three 40-milliliter VOA vials of water were collected from each well with a Teflon bailer. Purge water from MW-3 contained a visible hydrocarbon sheen.

The two extraction wells, MW-1A and MW-4, were sampled from brass sampling ports in the flow line from the wells to the treatment system (Plate 2). Three 40-milliliter VOA vials were collected from each port. The extraction well samples had a visible hydrocarbon sheen.

All of the water samples were placed in ice-chilled coolers and submitted to American Environmental Network Laboratory in Pleasant Hill, California under chain-of-custody protocol for analysis. The samples were analyzed by EPA Test Method 8015 (modified) for TPHg and EPA Test Method 8020 for BTEX. The analytical results are summarized in Table 2 along with past results. The laboratory report for the June 30, 1996 samples is presented in Appendix B.

DISCUSSION

HLA expects to continue quarterly groundwater monitoring and reporting as required by Alameda County, and treatment system discharge monitoring with semiannual reporting as required by

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96 AUG-1 AM 9: 44

July 25, 1996 34467 1 Mr. Jeff Christoff Blue Print Service Company Page 3

EBMUD. Groundwater sampling will be performed during the second quarter of 1996 in June, and system effluent monitoring will continue to be performed once every 30 days or 40,000 gallons discharged.

DAVID R. KLEESATTE NO. 5136

OF CAL

If you have any questions, please contact David Kleesattel at (415) 543-8422.

Yours very truly,

HARDING LAWSON ASSOCIATES

l James G. McCarty Staff Engineer

David R. Kleesattel, R.G.

Project Manager

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Attachments: Table 1 - Groundwater Treatment System Analytical Results

Table 2 - Groundwater Analytical Results

Table 3 - Flow Totalizer Readings

Plate 1 - Site Plan

Plate 2 - Process Flow and Sampling Locations

Appendix A - Treatment System Sample Laboratory Reports
Appendix B - Groundwater Sample Laboratory Reports

cc: Mr. Dale Klettke

Alameda County Health Care Services Agency

Division of Hazardous Materials Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502-6577

Ms. Sue Jenne

East Bay Municipal Utilities District

Source Control Division

Mail Slot #702, P.O. Box 24055 Oakland, California 94623-1055

Table 1. Groundwater Treatment System Analytical Results

Date/ Analytes	Bioreactor Effluent (1)	CB-1 Effluent (2)	CB-2 Effluent (3)	Sanitary Sewer Influent (4)
April 18, 1996				
TPHg	NA	1.3	0.17	0.09
Benzene	NA	38	1.4	ND<0.5
Toluene	NA	16	0.5	ND<0.5
Ethylbenzene	NA	3.8	ND<0.5	ND<0.5
Xylene	NA	66	ND<2	ND<2
June 5, 1996				
TPHg	NA	5.8	0.53	0.19
Benzene	NA	63	2.1	ND<0.54
Toluene	NA	63	1.2	ND<0.5
Ethylbenzene	NA	11	1.7	0.5
Xylene	NA	490	6	ND<2

ND

Benzene, toluene, ethylbenzene, and xylenes concentrations presented in micrograms per liter ($\mu g/l$)

Sample location identification number (see Plate 2) **(1)**

⁽²⁾

⁽³⁾

⁽⁴⁾

Not detected above the reporting limit

Not analyzed NA

Total petroleum hydrocarbons as gasoline TPHg

TPHg concentrations presented in milligrams per liter (mg/l)

Table 2. Groundwater Analytical Results

Date/ Analytes	MW-1A	MW-3	MW-4	MW-5	MW-6
August 1, 1991					<u> </u>
ТРНд	350	74	86	120	
Benzene	17,000	1,600	1,500	20,000	
Toluene	31,000	4,600	6,200	14,000	
Ethylbenzene	3,000	670	1,000	1,900	
Xylenes	22,000	4,300	7,300	4,900	
September 30, 1992					
TPHg	NA	NA	NA	51	
Benzene	NA	NA	NA	13,000	
Toluene	NA	NA	NA	5,900	
Ethylbenzene	NA	NA	NA	1,400	
Xylene	NA	NA	NA	2,600	
March 30, 1993					
TPHg	NA	NA	NA	74	
Benzene	NA	NA	NA	16,000	••
Toluene	NA	NA	NA	5,000	
Ethylbenzene	NA	NA	NA	1,800	
Xylene	NA	NA	NA	2,700	
January 13, 1994					
TPHg	NA	NA	NA	80	
Benzene	NA	NA	NA	19,000	
Toluene	NA	NA	NA	8,200	
Ethylbenzene	NA	NA	NA	1,400	
Xylene	NA	NA	NA	2,700	
April 13, 1994					
TPHg	170	NA	58	63	
Benzene	17,000	NA	1,500	14,000	
Toluene	31,000	NA	2,500	3,500	
Ethylbenzene	2,100	NA	520	1,500	
Xylene	14,000	NA	3,200	2,100	

Table 2. (continued)

Date/ Analytes	MW-1A	MW-3	MW-4	MW-5	MW-6
June 29, 1994				······································	<u></u>
трн _д	95	39	16	64	
Benzene	16,000	3,200	1,300	29,000	
Toluene	21,000	2,900	790	5,400	
Ethylbenzene	1,500	580	51	2,800	
Xylenes	12,000	4,300	3,400	4,500	
December 8, 1994					
TPHg	190	4,600 *	92	59	
Benzene	13,000	1,500	1,700	13,000	
Toluene	21,000	4,200	4,100	3,800	
Ethylbenzene	1,400	6,000	310	1,800	
Xylenes	11,000	95,000	5,400	2,900	
April 3, 1995					
TPHg	67	51	35	51	
Benzene	11,000	1,100	1,200	15,000	-
Toluene	13,000	2,300	3,400	2,200	
Ethylbenzene	910	580	280	2,800	-
Xylenes	9,800	4,800	5,800	4,500	-
June 27, 1995					
TPHg	53	20	13	41	
Benzene	11,000	270	1,300	12,000	
Toluene	9,900	550	1,600	2,100	
Ethylbenzene	500	190	77	1,400	-
Xylenes	6,300	1,700	1,800	1,600	-
September 19, 1995					
ТРНд	52	6.2	14	50	
Benzene	8,900	70	2,200	16,000	-
Toluene	9,200	140	2,100	2,700	-
Ethylbenzene	710	68	110	2,000	-
Xylenes	6,800	500	2,100	2,100	-
December 13, 1995					
ТРНд	62	19	11	45	-
Benzene	9,900	220	630	13,000	-
Toluene	11,000	480	470	2,100	-
Ethylbenzene	790	140	14	1,600	-
Xylenes	5,300	1,700	1,800	1,900	-

Table 2. (continued)

Date/ Analytes	MW-1A	MW-3	MW-4	MW-5	MW-6
March 6, 1996					
TPHg	200	7.3	110	51	
Benzene	14,000	120	2,600	15,000	
Toluene	22,000	170	3,600	2,800	
Ethylbenzene	2,700	49	780	2,000	
Xylenes	22,000	440	10,000	2,400	
June 11, 1996					
TPHg	140	16	260	48	< 0.05
Benzene	18,000	170	6,600	12,000	< 0.5
Toluene	28,000	270	19,000	2,900	< 0.5
Ethylbenzene	2,800	68	3 ,700	2,000	< 0.5
Xylenes	19,000	1,500	28,000	2,700	<2

TPHg concentrations presented in milligrams per liter (mg/l)

Benzene, Toluene, Ethylbenzene, and Xylenes concentrations presented in micrograms per liter ($\mu g/l$)

* = This sample contained a visible amount of separate-phase gasoline.

** = Well installed on April 22, 1996. Initial groundwater sampling on June 11, 1996.

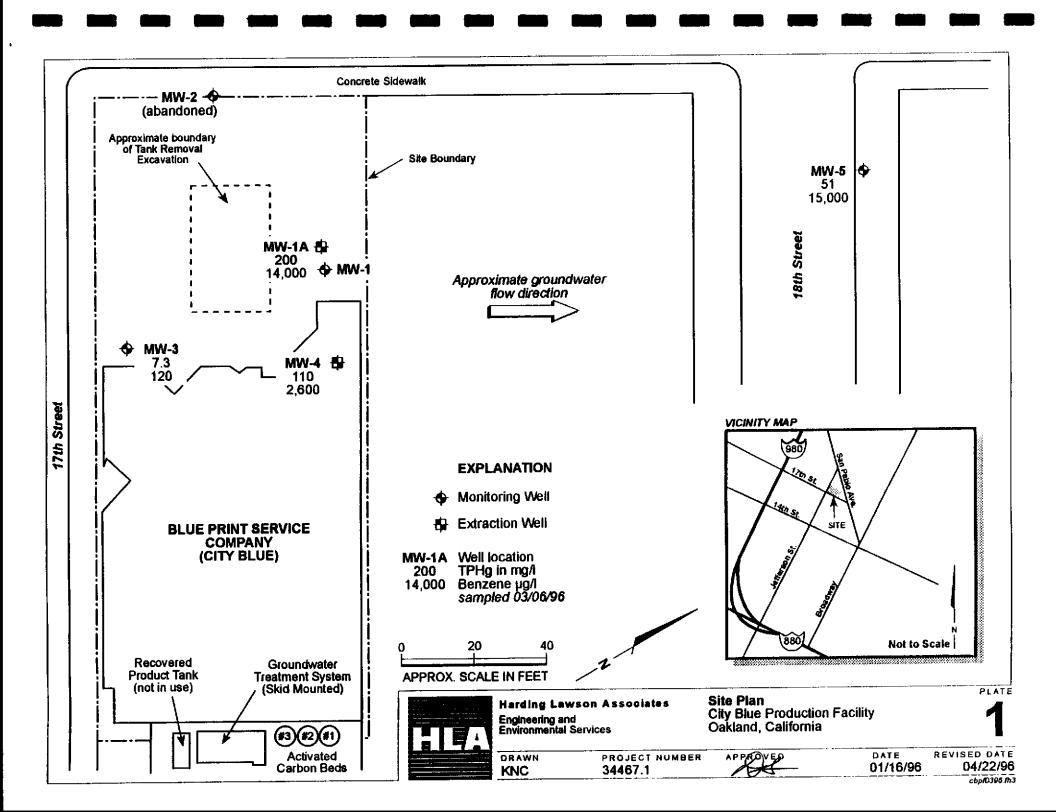
TPHg = Total petroleum hydrocarbons as gasoline

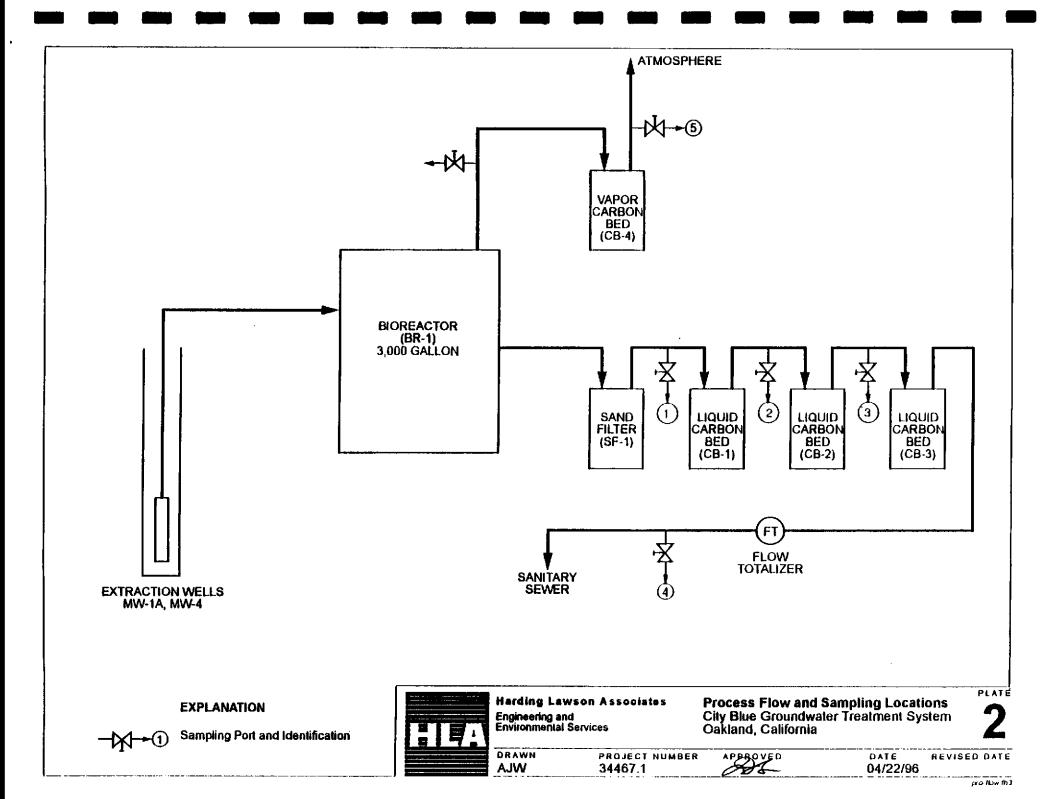
NA = Not analyzed

-- = Well installed after March 1996 Sampling event.

Table 3. Flow Totalizer Readings

Date	Flow Total to Sanitary Sewer (gallons)
06/16/92	1,000
10/23/92	75,470
03/04/94	77,866
12/27/94	267,350
01/03/95	274,770
12/29/95	587,740
01/04/96	596,477
01/17/96	609,787
02/01/96	618,188
02/16/96	634,972
03/01/96	646,734
03/19/96	665,147
03/25/96	671,025
04/03/96	679,041
04/18/96	688,889
05/01/96	700,900
05/18/96	712,710
06/05/96	724,854
06/28/96	732,447





American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

HARDING LAWSON ASSOCIATES 1855 GATEWAY BLVD., STE. 500 CONCORD, CA 94520

ATTN: DAVE SCRIVNER

CLIENT PROJ. ID: 11295-012 CLIENT PROJ. NAME: CITY BLUE

C.O.C. NUMBER: 0834

REPORT DATE: 05/01/96

DATE(S) SAMPLED: 04/18/96

DATE RECEIVED: 04/18/96

AEN WORK ORDER: 9604251

PROJECT SUMMARY:

On April 18, 1996, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD1-OUT AEN LAB NO: 9604251-01 AEN WORK ORDER: 9604251 CLIENT PROJ. ID: 11295-012

DATE SAMPLED: 04/18/96 DATE RECEIVED: 04/18/96 REPORT DATE: 05/01/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	37 * 16 * 3.8 * 66 * 1.3 *	0.5 0.5	ug/L ug/L ug/L ug/L mg/L	04/24/96 04/24/96 04/24/96 04/24/96 04/24/96

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD2-OUT AEN LAB NO: 9604251-02 AEN WORK ORDER: 9604251 CLIENT PROJ. ID: 11295-012

DATE SAMPLED: 04/18/96 DATE RECEIVED: 04/18/96 REPORT DATE: 05/01/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	1.4 * 0.5 * ND ND 0.17 *	0.5 w 0.5 w 0.5 w 2 w 0.05 m	g/L g/L g/L	04/24/96 04/24/96 04/24/96 04/24/96 04/24/96

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD3-OUT AEN LAB NO: 9604251-03 AEN WORK ORDER: 9604251 CLIENT PROJ. ID: 11295-012 DATE SAMPLED: 04/18/96 DATE RECEIVED: 04/18/96 REPORT DATE: 05/01/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND 0.09 *	0.5 t 0.5 t 0.5 t 2 t 0.05 r	ıg/L ıg/L	04/23/96 04/23/96 04/23/96 04/23/96 04/23/96

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604251

CLIENT PROJECT ID: 11295-012

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9604251 INSTRUMENT: H

MATRIX: WATER

Surrogate Standard Recovery Summary

Date			Percent Recovery
Analyzed	Client Id.	Lab Id.	Fluorobenzene
04/24/96 04/24/96 04/23/96	CD1-OUT CD2-OUT CD3-OUT	01 02 03	95 104 106
QC Limits:			70-130

DATE ANALYZED: 04/23/96

SAMPLE SPIKED: 9604243-01 INSTRUMENT: H

Matrix Spike Recovery Summary

	C-:1	A		QC Limi	ts
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene HCs as Gasoline	22.2 73.9 500	101 92 103	<1 <1 <1	85-109 87-111 66-117	17 16 19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

Harding Lawson Associates 1855 Gateway Boulevard, Suite 500 Concord, California 94520 (510) 687-9660 • FAX (510) 687-9673

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American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AlHA Accreditation: 11134

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HARDING ASSOC.

JUN 21 1996

HARDING LAWSON ASSOCIATES 1855 GATEWAY BLVD., STE. 500 CONCORD. CA 94520

ATTN: DAVE SCRIVNER

CLIENT PROJ. ID: 11295.012 CLIENT PROJ. NAME: CITY BLUE

C.O.C. NUMBER: 0836

REPORT DATE: 06/20/96

DATE(S) SAMPLED: 06/05/96

DATE RECEIVED: 06/05/96

AEN WORK ORDER: 9606054

PROJECT SUMMARY:

On June 5, 1996, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Lar**z**/Klein

Laboratory Director

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD1-OUT AEN LAB NO: 9606054-01 AEN WORK ORDER: 9606054 CLIENT PROJ. ID: 11295.012 DATE SAMPLED: 06/05/96 DATE RECEIVED: 06/05/96 REPORT DATE: 06/20/96

ANALYTE	METHOD/ CAS#	RESULT	R	EPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	63 63 11 490 5.8	* *	3 3 10	ug/L ug/L ug/L ug/L mg/L	06/13/96 06/13/96 06/13/96 06/13/96 06/13/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD2-OUT AEN LAB NO: 9606054-02 AEN WORK ORDER: 9606054 CLIENT PROJ. ID: 11295.012

DATE SAMPLED: 06/05/96 DATE RECEIVED: 06/05/96 REPORT DATE: 06/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	2.1 * 1.2 * 1.7 * 6 * 0.53 *	0.5 ug 0.5 ug 0.5 ug 2 ug 0.05 mg	/ L /L /L	06/14/96 06/14/96 06/14/96 06/14/96 06/14/96

HARDING LAWSON ASSOCIATES

SAMPLE ID: CD3-OUT AEN LAB NO: 9606054-03 AEN WORK ORDER: 9606054 CLIENT PROJ. ID: 11295.012

DATE SAMPLED: 06/05/96 DATE RECEIVED: 06/05/96 REPORT DATE: 06/20/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND 0.5 * ND 0.19 *	0.5 u 0.5 u 0.5 u 2 u 0.05 m	g/L g/L g/L	06/14/96 06/14/96 06/14/96 06/14/96 06/14/96

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9606054

CLIENT PROJECT ID: 11295.012

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

<u>Definitions</u>

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9606054

INSTRUMENT: H MATRIX: WATER

Surrogate Standard Recovery Summary

			Percent Recovery
Date Analyzed	Client Id.	Lab Id.	Fluorobenzene
06/13/96 06/14/96 06/14/96	CD1-OUT CD2-OUT CD3-OUT	01 02 03	92 93 104
QC Limits:			70-130

DATE ANALYZED: 06/12/96

06/12/96 9606030-03

SAMPLE SPIKED: INSTRUMENT: H

Matrix Spike Recovery Summary

	C d t	A		QC Limi	ts
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene	22.2 73.9	87 96	12 7	85-109 87-111	17 16
Hydrocarbons as Gasoline	500	71	12	66-117	19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

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CITY BLUE BIO-TREATMENT SYSTEM LOG 11295-012

996 TOTAL	159,718	FLOW	NUTRIENT	2nd Qtr Tot	57,707 DISCHARGE	DISCHARGE	673 NUTRIENT	
DATE	TIME	TOTAL (gal)	LEVEL (gel)	рН	(gel)	RATE (gpd)	RATE (gpd)	COMMENTS
04/03/96	07:00	679041	138	6.06	8155	942	2	Weekly O&M
04/10/96	07:30	685509	125	6.08	8468	921	2	Weekly O&M
04/18/96	07:45	688889	110	6.08	3380	422	2	Weekly O&M, sampled eff: C1,C2,C3
04/24/96	14:45	694696	95	6.07	5807	923	2	Weekly O&M
05/01/96	14:12	700900	82	6.06	6204	889	2	Weekly O&M
05/06/96	08:12	704865	75	6.07	3965	835		Weekly O&M instell newcarbon at C-3 and move others up
05/06/96	10:00	705205	75	6.07	340	4533	0	Turn system off, to measure WLs
05/08/96	10:00	705205	73	6.07	O	0		restart system
05/17/96	07:15	712710	58		7505	845		Weekly O&M
05/20/96	09:30	715240	191		2530	818	-43	Turn system off, remove product from bioreactor
05/22/96	16:00	715240	189	6.08	0	0		Weekly O&M, system off
05/24/96	08:20	715266	186	6.33	26	15	2	Weekly O&M, system off clesned site glass on sand filters
05/24/96	16:00	715375	186	6.33	109	341	0	Restart System
05/30/96	18:30	720378	177	6.18	5003	820	1	Weekly O& M
06/05/96	10:45	724854	166	6.12	4476	788	2	Weekly O&M, sampled eff: C1,C2,C3
06/11/96	14:20	729670	155	6.08	4816	783	2	Weekly D&M Sample MW-1A3,4,5,&6 OVM reading 6/12 on vapor 485 ppm to 13 ppm, leak in P-3
06/14/96	15:00	731850	148		2180	720	2	Turn system off to repair P-3
06/18/96	07:30	731850	142	6.90	0	0	2	Pull recirculation pump, install new carbon drum, pull extraction pumps to modify
06/21/96	18:00	731930	142		80	23	0	Install bottom intake pumps
06/25/96	14:00	731930	137	••	O	0	1	Install new recirculation pump
06/27/96	07:00	732080	137		150	88	0	Effluent pump on, well pumps off
06/28/96	07:00	732447	137	6.90	367	367	0	Weekly O&M restart system
07/01/96	12:30	735148	133	6.88	2701	835	1	Weekly O&M
07/05/96	15:30	738573	127	6.90	3425	088	1	Weekly O&M
07/11/96	16:55	743458	118	6.94	4885	808	1	Weekly O&M

American Environmental Network

Cartification Nation

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dHA Accreditation: 11134

PAGE 1

HARDING LAWSON ASSOCIATES 150 4th STREET, STE. 527 SAN FRANCISCO. CA 94103

ATTN: DAVE KLEESATTEL CLIENT PROJ. ID: 34467-1 CLIENT PROJ. NAME: CITY BLUE REPORT DATE: 06/21/96

DATE(S) SAMPLED: 06/11/96

DATE RECEIVED: 06/11/96

AEN WORK ORDER: 9606146

PROJECT SUMMARY:

On June 11, 1996, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

HARDING LAWSON ASSOCIATES

SAMPLE ID: MW-6

AEN LAB NO: 9606146-01 AEN WORK ORDER: 9606146 CLIENT PROJ. ID: 34467-1 DATE SAMPLED: 06/11/96 DATE RECEIVED: 06/11/96 **REPORT DATE:** 06/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 ug 0.5 ug 0.5 ug 2 ug 0.05 mg	g/L g/L g/L	06/14/96 06/14/96 06/14/96 06/14/96 06/14/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

HARDING LAWSON ASSOCIATES

SAMPLE ID: MW-5

AEN LAB NO: 9606146-02 AEN WORK ORDER: 9606146 CLIENT PROJ. ID: 34467-1

DATE SAMPLED: 06/11/96 DATE RECEIVED: 06/11/96

REPORT DATE: 06/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	12.000 * 2.900 * 2.000 * 2.700 * 48 *	3 0 (30 (100 (ug/L ug/L ug/L ug/L ng/L	06/18/96 06/18/96 06/18/96 06/18/96 06/18/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

HARDING LAWSON ASSOCIATES

SAMPLE ID: MW-3

AEN LAB NO: 9606146-03 AEN WORK ORDER: 9606146 CLIENT PROJ. ID: 34467-1

DATE SAMPLED: 06/11/96 DATE RECEIVED: 06/11/96

REPORT DATE: 06/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	170 * 270 * 68 * 1.500 * 16 *	10 u 10 u 10 u 40 u 1 m	g/L g/L g/L	06/14/96 06/14/96 06/14/96 06/14/96 06/14/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

HARDING LAWSON ASSOCIATES

SAMPLE ID: MW-1A AEN LAB NO: 9606146-04

AEN WORK ORDER: 9606146 CLIENT PROJ. ID: 34467-1

DATE SAMPLED: 06/11/96 DATE RECEIVED: 06/11/96

REPORT DATE: 06/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes. Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	18.000 * 28.000 * 2.800 * 19.000 * 140 *	50 50 2 0 0	ug/L ug/L ug/L ug/L ng/L	06/14/96 06/14/96 06/14/96 06/14/96 06/14/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

HARDING LAWSON ASSOCIATES

SAMPLE ID: MW-4

AEN LAB NO: 9606146-05 AEN WORK ORDER: 9606146 CLIENT PROJ. ID: 34467-1

DATE SAMPLED: 06/11/96 DATE RECEIVED: 06/11/96

REPORT DATE: 06/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020	C	F0	. / 1	06/14/06
Benzene Toluene	71-43-2 108-88-3	6.600 * 19.000 *	50 ug 50 ug	i/L	06/14/96 06/14/96
Ethylbenzene Xylenes, Total	100-41-4 1330-20-7	3.700 * 28,000 *	50 ug 200 ug	/L	06/14/96 06/14/96
Purgeable HCs as Gasoline	5030/GCFID	260 *	5 mg	J/L	06/14/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9606146

CLIENT PROJECT ID: 34467-1

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

<u>Definitions</u>

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method 8lank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9606146

INSTRUMENT: H MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
06/14/96 06/18/96 06/14/96 06/14/96 06/14/96	MW-6 MW-5 MW-3 MW-1A MW-4	01 02 03 04 05	100 120 94 110 90
QC Limits:			70-130

DATE ANALYZED: 06/14/96 SAMPLE SPIKED: 9606176-01

INSTRUMENT: H

Matrix Spike Recovery Summary

	6 1			QC Limi	ts
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene HCs as Gasoline	22.2 73.9 500	94 91 107	16 7 4	85-109 87-111 66-117	17 16 19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

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