HOLLIS St.
PROJECT
HSP

November 15, 1990

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA. 94607

Attention: Dennis Byrne

Re: Monitoring well located at 6050 Hollis Street

Dear Mr. Byrne,

Enclosed is the documentation for the well at the above mentioned site as completed by Baseline Environmental Consulting firm.

If you have any questions regarding these wells, please feel free to call our office at 653-6871.

Sincerely,

Debra S. Baker

Debra S. Baker
Secretary

Enclosures

90 NOV 19 PM 12:06

6050 Hollis St., Emeryville, CA 94608 • *telephone:* (415) 653-6871 or 652-0304
mailing address: P.O. Box 8685, Emeryville, CA 94662-0685

BASELINE

ENVIRONMENTAL CONSULTING

15 October 1990
S9-105

Mr. Francis Collins
Hollis Street Project
6050 Hollis Street
Emeryville, CA 94608

Subject: **Report of Analytical Results of Sixth Quarterly Groundwater Monitoring at 6050 Hollis Street, Emeryville**

Dear Mr. Collins:

As part of our recommended quarterly monitoring program, BASELINE is pleased to submit this letter which documents our recently completed sixth quarterly sampling event for the monitoring well (MW-H1) located at 6050 Hollis Street in Emeryville. The purpose of quarterly monitoring is to evaluate the presence of chemical compounds, previously identified in the groundwater. Site background information and well installation documentation was provided in our report dated 8 March 1989.

One groundwater sample was collected on 24 July 1990 and submitted to Curtis and Tompkins, Ltd. for analyses; the laboratory report and groundwater sampling form are included as Attachment A. For the purpose of quality control, a field blank was prepared by BASELINE and also submitted to the laboratory for analyses. A groundwater sample had been collected for this sixth quarterly sampling on 14 June 1990 and submitted, in conjunction with a field blank, to Chromolab, Inc. in San Ramon for analyses. Because laboratory results indicated the presence of diesel in the field blank, the well was resampled on 24 July 1990. The 24 July 1990 analyses is presented in this report; the laboratory report for the 14 June 1990 sampling event is included as Attachment B for information.

Prior to collection of the 24 July 1990 sample, the groundwater level was measured at 5.93 feet below the top of the well casing. Following water level measurement, the well was evacuated of five well volumes. The evacuation was accomplished using a hand pump; sampling was accomplished using a disposable Teflon bailer. The groundwater sample was placed directly into clean glass bottles; the VOA bottles, used to contain samples to be analyzed for volatile organic compounds, were filled to capacity to eliminate all headspace. The sample containers were then labelled, placed in zip-lock bags, iced, and submitted under chain-of-custody to Curtis and Tompkins, Ltd., a Department of Health Services certified laboratory, for analyses.

Water generated during well sampling is stored on the site in a partially filled 55-gallon drum. The water will require off-site disposal at a permitted facility. The drummed water is being stored on-site since subsequent sampling events will generate additional water; the water will be disposed of after the drum has been filled.

The groundwater sample and field blank were analyzed for diesel, gasoline, and kerosene (EPA Method 8015), and benzene, toluene, ethylbenzene, and total xylenes (EPA Method 8020). Table 1 summarizes analytical results of all six quarterly monitoring sampling events at the site. The analytical results from the first and

results of all six quarterly monitoring sampling events at the site. The analytical results from the first and second sampling events did not indicate detectable levels of the analyzed compounds. Analytical results from subsequent sampling events identified compounds above detection limits. The groundwater sample collected 24 July 1990 contained gasoline at 0.140 mg/L, benzene at 0.0006 mg/L, and xylenes at 0.0009 mg/L.

The analytical data obtained to date indicate that groundwater contamination is decreasing since the March 1990 sampling event. The most recent quarterly sampling event marks 1½ years of quarterly monitoring. It is our understanding that Alameda County requires two years of sampling to be completed with analytical results indicating declining concentrations of chemical compounds prior to consideration of post-remedial monitoring closure. To comply with this requirement, we recommend a seventh quarterly sampling event to occur in October 1990.

It has been a pleasure providing these services. Should you have any questions, or need further information, please do not hesitate to contact us at your convenience. It should be noted that the information documented in this letter should be transmitted to the Regional Water Quality Control Board, San Francisco Bay Region and Alameda County Hazardous Materials Division.

Sincerely,

Yane Nordhav
Principal
Reg. Geologist No. 4009

YN/my:S90c

Attachments

TABLE 1

SUMMARY OF ANALYTICAL RESULTS, MW-H1
6050 Hollis Street, Emeryville, California
(mg/L)

Date	Depth to Water (feet)	Gasoline	Diesel	Kerosene	Benzene	Toluene	Ethyl-benzene	Xylenes
02/08/89	4.85	<0.05	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001
05/01/89	5.1	<0.05	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001
09/13/89	5.8	1.3	<0.5	<0.5	0.061	<0.0005	0.005	0.002
12/04/89	5.34	0.410/0.370	<0.5/<0.5	<0.5/<0.5	0.0072/0.011	0.0032/0.0024	0.0028/0.0014	0.0032/0.0013
03/26/90	6.42	0.7	<0.5	<0.5	0.093	0.001	0.0017	<0.001
07/24/90[1]	5.93	0.140	<0.5	<0.05	0.0006	<0.0005	<0.0005	0.0009
07/24/90 (field blank)	NA	<0.05	<0.5 .05	<0.5 .05	<0.0005	<0.0005	<0.0005	<0.0005

[1] A sample was also collected on 14 June 1990. A field blank was also collected for QA/QC purposes. The field blank contained detectable levels of diesel. Therefore, the well was resampled on 24 July 1990 and a field blank was also prepared. The 24 July 1990 analyses is presented in this report. The laboratory report for the 14 June 1990 sampling event is included as Attachment B.

Notes: xx/xx - Duplicate sample.
NA = Not analyzed for.
Laboratory report for the most recent sampling event is included as Attachment A.

ATTACHMENT A

LABORATORY REPORT AND GROUNDWATER SAMPLING FORM
(24 July 1990 Sampling Event)

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710. Phone (415) 486-0900

DATE RECEIVED: 07/24/90
DATE REPORTED: 08/07/90

LAB NUMBER: 101168

CLIENT: BASELINE

REPORT ON: 2 WATER SAMPLES

PROJECT #: S9-105
LOCATION: BONTA COLLINS

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approval

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101168
CLIENT: BASELINE
JOB #: S9-105
LOCATION: BONTA COLLINS

DATE RECEIVED: 07/24/90
DATE EXTRACTED: 07/25/90
DATE ANALYZED: 07/26/90
DATE REPORTED: 08/07/90

Extractable Petroleum Hydrocarbons in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (mg/L)	DIESEL RANGE (mg/L)	REPORTING LIMIT (mg/L)
101168-1	MW-H1	ND	ND	0.5
101168-2	MW-H1FB	ND	ND	0.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	100

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 101168
CLIENT: BASELINE
JOB NUMBER: S9-105
JOB LOCATION: BONTA COLLINS

DATE RECEIVED: 07/24/90
DATE ANALYZED: 08/06/90
DATE REPORTED: 08/07/90

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	CLIENT ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
101168-1	MW-H1	140	0.6	ND(0.5)	ND(0.5)	0.9
101168-2	MW-H1FB	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	84

5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

CHAIN OF CUSTODY RECORD

Turn-Around Time Normal
Lab Curtis & Tompkins
Contact Person Bill Scott

Project No.	Project Name and Location
59-105	Bonta Collins

Samplers: (Signature) William K Scott

No.	Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	TVH as Gasoline	TEH as Diesel (Kerosene)	BTXE	Remarks	Detection Limits
	MW-H1	7-24-90	10:30	water			5		X	X	X		TVH 0.05 ppm BTXE .0005 ppm
	MW-H1FB	7-24-90	10:45	water			5		X	X	X		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature) William K Scott	Date / Time 7-24-90 15:02	Received for Laboratory by: (Signature)	Date / Time 7/24/90 1:00 PM

Condition of Samples upon Arrival at Laboratory:
Cold

Remarks:

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

GROUNDWATER SAMPLING

Well No.: MW-H1

Project #: S9-105
Project: Banta Collins
Date: 7/24/90
Time: 9:00
Recorded by: WKS
WEATHER:
Wind: Breezy

Well Depth from TOC (feet): 20
Well Diameter (inches): 2
Product Level from TOC (feet): Sheen
Water Level from TOC (feet): 5.93
Screened (feet): 6-20
Elevation (feet MSL): N/A
Precip in last 5 days (inches): None

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

(20 - 5.93) x (0.083)^2 x 3.14 x 7.48 =
(Well Depth Water Level) [Well radius (ft)]

2.3 gallons in one well volume. 11.5 gallons in five well volumes. 12 gallons removed.

CALIBRATION:

	Temp °F	EC	pH	Date	Time
Standard:	68.5	1,000	7.0	7/24/90	9:07
Before Development:	68.5	1,032	6.95	7/24/90	9:09
After Development:	73.4	1,008	6.97		

FIELD MEASUREMENTS:

Temp °F	EC	pH	Time	Gallons Removed	Appearance
67.8	1,230	6.39	09:39	3	Slightly turbid
67.9	1,260	6.36	09:47	6	Very slightly turbid
68.1	1,310	6.44	09:59	9	Very slightly turbid
67.6	1,288	6.46	10:11	12	Clear

APPEARANCE OF SAMPLE: Clear

SAMPLING EQUIPMENT:

		Type:	GPM:
Bailer:	X	Disposable	
Submersible:			
Dedicated:			

DECONTAMINATION METHOD: Clean, ½-inch PVC hose used

SAMPLE ANALYSES: TVH as gasoline, TEH as diesel, kerosene, BTXE

LABORATORY: Curtis & Tompkins

ATTACHMENT B

LABORATORY REPORT AND GROUNDWATER SAMPLING FORM
(14 June 1990 Sampling Event)

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

June 29, 1990 ChromaLab File No.: 0690141

BASELINE ENGINEERS, INC.

Attn.: Bill Scott

RE: Two water samples for Gasoline/BTEX and TEPH analyses

Project Name: Bonta Collins - Hollis Street
Project Number: SG-105
Date Sampled: June 14, 1990 Date Submitted: June 14, 1990
Date Extracted: June 25-28, 1990 Date Analyzed: June 25-28,1990

RESULTS:

Sample No.	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	Kerosene (µg/L)
MW-H1	340	82	16	N.D.	N.D.	N.D.	N.D.
MW-H1FB	N.D.	62	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	94.1%	108.0%	98.3%	101.0%	97.0%	98.9%	91.2%
DETECTION LIMIT	50	50	1.0	1.0	1.0	1.0	50
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602	3510/ 8015

CHROMALAB, INC.

David Duong
Senior Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

CHAIN OF CUSTODY RECORD

Turn-Around Time 10 Day
Lab Chroma Lab
Contact Person Bill Scott

Project No.	Project Name and Location
59-105	Bonita Collins Hollis Street

Samplers: (Signature) William K Scott

CHROMALAB FILE # 690141

No. Station	Date	Time	Media	Depth	Composites	No. of Containers	Station Location	Analysis: TVH as gasoline	TEH diesel	TEH kerosene	BTX&E	Remarks	Detection Limits
MW-H1	6-14-90	10:45	water			5		X	X	X	X	TPH gas 50ppb BTEX 1ppb	
MW-H1FB	6-14-90	10:50	HPLC			5		X	X	X	X		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature) William K Scott	Date / Time 6-14-90 17:18	Received for Laboratory by: (Signature)	Date / Time 6/14/90 1718

Condition of Samples upon Arrival at Laboratory: Cool

Remarks:

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

GROUNDWATER SAMPLING

Project #: S9-105

Project: Banta Collins, Hollis Street

Date: 6/14/90

Time: 9:47

Recorded by: WKS

Well No.: MW-H1

Well Depth from TOC: 20.0 feet

Well Diameter: 2-inch

Water Level from TOC: 4.84 feet

Screened: 6-20 feet

Elevation: N/A

WEATHER:

Wind: Breeze

Precip in last 5 days: None

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

(20.0 - 4.84) x (0.083)^2 x 3.14 x 7.48 =
(Well depth Water level) (Well radius) (feet)

2.5 gallons in one well volume. 12.5 gallons in five well volumes. 15.0 gallons removed.

APPEARANCE OF SAMPLE: Very slightly turbid

SAMPLING EQUIPMENT:

Bailer:	X	Type:	Disposable	GPM:	
Submersible:		Type:		GPM:	
Dedicated:		Type:		GPM:	

DECONTAMINATION METHOD: TSP-washed hand pump

SAMPLE ANALYSES: Gasoline, diesel, kerosene, BTXE

LABORATORY: Chromalab

(6/25/90)