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<http://www.hydrologue.com>

**VIA FACSIMILE 510-337-9335 AND U.S. MAIL**

November 10, 2005

Project No. 3034-00

MR. AMIR GHOLAMI  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway Ste 250  
Alameda, CA 94502

**SUBJECT: SBC CTVYCA60 (P5200) Facility  
2610 Norbridge Ave, Castro Valley, CA 94546  
SITE NO. RO0002610**

Dear Mr. Gholami:

Hydrologue Inc. (HI) has previously submitted the PHASE II SITE ASSESSMENT REPORT dated September 19, 2005 (Report) to the Alameda County Environmental Health (ACDEH) which reported the findings of the bedrock, soil and groundwater investigation conducted at the Site. The Report concluded that there was no indication of any significant hydrocarbon impact to either soil or groundwater and on behalf of SBC, HI requested that site closure be granted.

In a conversation with Mr. Chris d'Sa of this office on November 9, 2005, you stated that you tentatively concur with the conclusions in the Report. However, before the ACDEH formally grants Site Closure, you are requesting a short table comparing the Environmental Screening Levels (ESLs) to the concentrations detected in the soil and groundwater at this Site. To reiterate the analytical results in the report, there were NO concentrations of Total petroleum hydrocarbons as gasoline (TPH-g); Benzene (B), Toluene (T), Ethylbenzene (E), and Total Xylenes (X); Methyl-t-butyl ether (MtBE), Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (EtBE), Tert-amyl methyl ether (TAME), and Tert-butanol (TBA); 1, 2-Dibromoethane (EDB), and 1,2-Dichloroethane (EDC) were detected above detection limits in any of the soil samples collected. There were also No concentrations of TPH-g, MTBE, BTEX, DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above detection limits in any of the groundwater samples collected, except for minor MTBE at 0.65 µg/L slightly above the detection limit detected only in well MW-1. This level was consistent with previous sampling results of MW-1 and OW-1 and significantly below the DHS MCLs for drinking water of 13 µg/L.

HI has compiled a selection of final Tier 1 soil and groundwater ESLs for the chemicals TPH-g, MTBE, BTEX. These results are attached herewith and incorporated by this reference. We have assumed impacts to shallow soils (<3 meters below ground surface) under an unrestricted (e.g., residential) land-use scenario (*Note that although the Site is in a commercial area and is has a*

*commercial land-use, HI used the more conservative residential land-use*). Groundwater immediately underlying the site is not assumed to be a potential source of drinking water. This scenario places the site under Table A-2 of the Tier 1 lookup tables (*Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, February 2005 prepared by California Regional Water Quality Board, Bay Area Region (RWQCB)).


For example, the Tier 1 ESL for MTBE in shallow soil is selected as the lowest of the individual screening levels for Direct Exposure (30 mg/kg), Ceiling Level (100 mg/kg), Indoor-Air Impacts (2 mg/kg), and Groundwater Protection -leaching concerns, (8.4 mg/kg). The final soil ESL for Benzene is the lowest of the individual screening levels, or 2 mg/kg. **Here, MTBE in soil was not detected above the method detection limit of <0.005 mg/kg.**

The process used for selection of a Tier 1 MTBE ESL in groundwater is similar. Individual screening levels for Indoor Air (24000 ug/L), Discharge to Surface Water (8000 ug/L) and Ceiling Level (1800 ug/L) concerns are compared and the lowest of these is selected for inclusion in the Tier 1 lookup tables. In this example, the screening levels for Indoor Air drives potential risks and is selected as the Tier 1 ESL (1800 ug/L). **Here, MTBE in groundwater was detected in one water sample at 0.65 ug/L in the latest sampling event. The highest MTBE detected in the groundwater at the Site was 0.84 ug/L.** The same process is used for the rest of the chemicals like Benzene, Toluene, Ethylbenzene, and Total Xylenes. Please see attached ESL Results Report for more details.

As can be seen by the attached ESL Results Report and Table 1, the proposed ESLs for the Site are exponentially higher than any concentrations that were detected in both soil and groundwater. Therefore, the concentrations in the soil and groundwater meet the environmental protection goals presented in the Water Quality Control Plan for the RWQCB.

Please review this Report for closure at your earliest convenience.

Very truly yours,  
HYDROLOGUE, INC



Seyed Morteza Mortazavi, Ph.D.  
Principal Hydrogeologist/Engineer  
C.HG. No. 516



Attachments: Revised Table 1  
ESL Results Report

cc: DURHAM, MONIQUE L (SBCSI)

\\triton\projects\REPORTS\SBC\Castrova\Phase2\Phase2Report Summary.doc

**Summary of Groundwater and Soil Data**

**TABLE 1**

Well No.	Top of Casing	Water	GW	Concentrations (ppb)								
Date Sampled	Elevation feet MSL	Depth ft/bgs	Elevation	B	T	E	X	TPH-g	MTBE	ETBE, DIPE, TBA, TAME	EDB, EDC	
<b>Residential ESLs Feb 2005</b>				<b>46</b>	<b>130</b>	<b>290</b>	<b>100</b>	<b>500</b>	<b>1800</b>			
<b>Commercial ESLs Feb 2005</b>				<b>46</b>	<b>130</b>	<b>290</b>	<b>100</b>	<b>500</b>	<b>1800</b>			
<b>GROUNDWATER DATA (ug/L)</b>												
<b>MW1</b>												
7/19/05	172.97	6.00	166.97	<0.5	<0.5	<0.5	<0.5	<50	0.84	<0.5-<50	<0.5	
9/13/05	172.97	6.59	166.38	<0.5	<0.5	<0.5	<0.5	<50	0.65	<0.5-<50	<0.5	
<b>MW2</b>												
9/13/05	174.50	7.79	166.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5-<50	<0.5	
<b>MW3</b>												
9/13/05	173.83	7.69	166.14	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5-<50	<0.5	
<b>OW1</b>												
7/19/05	174.19	7.21	166.98	<0.5	<0.5	<0.5	<0.5	<50	0.67	<0.5-<50	<0.5	
9/13/05	174.19	7.21	166.98	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5-<50	<0.5	
<b>SOIL DATA (mg/Kg)</b>				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
<b>Residential ESLs Feb 2005</b>				<b>0.18</b>	<b>9.3</b>	<b>32</b>	<b>11</b>	<b>100</b>	<b>2</b>			
<b>Commercial ESLs Feb 2005</b>				<b>0.38</b>	<b>9.3</b>	<b>32</b>	<b>11</b>	<b>400</b>	<b>5.6</b>			
<b>8/22/05</b>												
MW2d5				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW2d10				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW2d15				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW3d5				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW3d10				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW3d15				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
MW3d20				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
B4d18				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
B4d23				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	
B4d28				<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<0.005	

## YOUR ENVIRONMENTAL SCREENING LEVELS SEARCH RESULTS PAGE

### Summary of Selected Site Scenario

<b>Site Name:</b>	SBC CTVYCA60 (P5200) Facility
<b>Site Address:</b>	2610 Norbridge Ave, Castro Valley, CA 94546
<b>City, State, Zip:</b>	SITE NO. RO0002610
<b>Location of impacted Soil:</b>	Shallow Soil (3.0 m or 0-10 ft bgs)
<b>Surface Water Environment:</b>	Freshwater
<b>Groundwater Beneficial Use:</b>	Non-Drinking Water
<b>Land Use:</b>	Residential

The following values were returned for: **METHYL TERT BUTYL ETHER**

### ESLs for Soils

<b>Values Extracted From Table:</b>	B-1
	<b>Units: mg/kg</b>
<b>Lowest ESL:</b>	2.0E+00
<b>Ceiling Value (Odors, etc.):</b>	1.0E+02
<b>Urban Area Ecotoxicity Criteria:</b>	-
<b>Direct Exposure:</b>	3.0E+01
<b>Indoor Air Impacts:</b>	2.0E+00
<b>Groundwater Protection (Soil Leaching):</b>	8.4E+00

### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	1.8E+03
Ceiling Value (Odors, etc.):	1.8E+03
Indoor Air Impacts:	2.4E+04
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	8.0E+03

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### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	5.0E+00
Ceiling Value (odors, etc):	5.0E+00
Drinking Water:	1.3E+01
Aquatic Habitats Protection:	6.6E+04
Bioaccumulation/ Human Consumption:	

---

### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	9.4E+00
Shallow Soil Gas:	9.4E+03

---

### Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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### What do you want to do with this report?

**ESL Surfer Version 2.05. Tables last updated on February 2005. To save and export the values right click on the report and chose the export option and your software of choice. Thank you !**

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**Reference:** Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final - February 2005, Volume 2- Appendix 1), San Francisco Bay Area Regional Water Quality Control Board, [www.swrcb.ca.gov/rwqcb2/esl.htm](http://www.swrcb.ca.gov/rwqcb2/esl.htm)

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**Site Name:** SBC CTVYCA60 (P5200) Facility

**Site Address:** 2610 Norbridge Ave, Castro Valley, CA 94546

**City, State, Zip:** SITE NO. RO0002610

**Location of impacted Soil:** Shallow Soil (3.0 m or 0-10 ft bgs)

**Surface Water Environment:** Freshwater

**Groundwater Beneficial Use:** Non-Drinking Water

**Land Use:** Residential

The following values were returned for: **BENZENE**

### ESLs for Soils

**Values Extracted From Table:** B-1

**Units:** mg/kg

**Lowest ESL:** 1.8E-01

**Ceiling Value (Odors, etc.):** 5.0E+02

**Urban Area Ecotoxicity Criteria:** 2.5E+01

**Direct Exposure:** 1.8E-01

**Indoor Air Impacts:** 1.8E-01

**Groundwater Protection (Soil Leaching):** 2.0E+00

### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	4.6E+01
Ceiling Value (Odors, etc.):	2.0E+04
Indoor Air Impacts:	5.4E+02
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	4.6E+01

### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	1.0E+00
Ceiling Value (odors, etc):	1.7E+02
Drinking Water:	1.0E+00
Aquatic Habitats Protection:	4.6E+01
Bioaccumulation/ Human Consumption:	7.1E+01

### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	8.5E-02
Shallow Soil Gas:	8.5E+01



### Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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**Site Name:** SBC CTVYCA60 (P5200) Facility  
**Site Address:** 2610 Norbridge Ave, Castro Valley, CA 94546  
**City, State, Zip:** SITE NO. RO0002610

**Location of impacted Soil:** Shallow Soil (3.0 m or 0-10 ft bgs)  
**Surface Water Environment:** Freshwater  
**Groundwater Beneficial Use:** Non-Drinking Water  
**Land Use:** Residential

The following values were returned for: **ETHYLBENZENE**

### ESLs for Soils

**Values Extracted From Table:** B-1  
**Units:** mg/kg

**Lowest ESL:** 3.2E+01  
**Ceiling Value (Odors, etc.):** 4.0E+02  
**Urban Area Ecotoxicity Criteria:** -  
**Direct Exposure:** 4.0E+02  
**Indoor Air Impacts:** 3.9E+02  
**Groundwater Protection (Soil Leaching):** 3.2E+01

### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	2.9E+02
Ceiling Value (Odors, etc.):	3.0E+02
Indoor Air Impacts:	1.7E+05
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	2.9E+02

### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	3.0E+01
Ceiling Value (odors, etc):	3.0E+01
Drinking Water:	7.0E+02
Aquatic Habitats Protection:	2.9E+02
Bioaccumulation/ Human Consumption:	2.9E+04

### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	4.2E+02
Shallow Soil Gas:	4.2E+05

### Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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**Site Name:** SBC CTVYCA60 (P5200) Facility

**Site Address:** 2610 Norbridge Ave, Castro Valley, CA 94546

**City, State, Zip:** SITE NO. RO0002610

**Location of impacted Soil:** Shallow Soil (3.0 m or 0-10 ft bgs)

**Surface Water Environment:** Freshwater

**Groundwater Beneficial Use:** Non-Drinking Water

**Land Use:** Residential

The following values were returned for: **TOLUENE**

### ESLs for Soils

**Values Extracted From Table:** B-1

**Units:** mg/kg

**Lowest ESL:** 9.3E+00

**Ceiling Value (Odors, etc.):** 5.0E+02

**Urban Area Ecotoxicity Criteria:** -

**Direct Exposure:** 1.0E+02

**Indoor Air Impacts:** 1.3E+02

**Groundwater Protection (Soil Leaching):** 9.3E+00

### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	1.3E+02
Ceiling Value (Odors, etc.):	4.0E+02
Indoor Air Impacts:	3.8E+05
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	1.3E+02

### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	4.0E+01
Ceiling Value (odors, etc):	4.0E+01
Drinking Water:	1.5E+02
Aquatic Habitats Protection:	1.3E+02
Bioaccumulation/ Human Consumption:	2.0E+05

### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	6.3E+01
Shallow Soil Gas:	6.3E+04

### Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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### What do you want to do with this report?

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**Location of impacted Soil:** Shallow Soil (3.0 m or 0-10 ft bgs)

**Surface Water Environment:** Freshwater

**Groundwater Beneficial Use:** Non-Drinking Water

**Land Use:** Residential

The following values were returned for: **XYLENES**

### ESLs for Soils

**Values Extracted From Table:** B-1

**Units:** mg/kg

**Lowest ESL:** 1.1E+01

**Ceiling Value (Odors, etc.):** 4.2E+02

**Urban Area Ecotoxicity Criteria:** -

**Direct Exposure:** 3.3E+02

**Indoor Air Impacts:** 3.1E+02

**Groundwater Protection (Soil Leaching):** 1.1E+01



### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	1.0E+02
Ceiling Value (Odors, etc.):	5.3E+03
Indoor Air Impacts:	1.6E+05
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	1.0E+02

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### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	2.0E+01
Ceiling Value (odors, etc):	2.0E+01
Drinking Water:	1.8E+03
Aquatic Habitats Protection:	1.0E+02
Bioaccumulation/ Human Consumption:	

---

### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	1.5E+02
Shallow Soil Gas:	1.5E+05

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### Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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**Site Name:** SBC CTVYCA60 (P5200) Facility  
**Site Address:** 2610 Norbridge Ave, Castro Valley, CA 94546  
**City, State, Zip:** SITE NO. RO0002610  
**Location of impacted Soil:** Shallow Soil (3.0 m or 0-10 ft bgs)  
**Surface Water Environment:** Freshwater  
**Groundwater Beneficial Use:** Non-Drinking Water  
**Land Use:** Residential

The following values were returned for: **TPH (gasolines)**

### ESLs for Soils

**Values Extracted From Table:** B-1  
**Units:** mg/kg

**Lowest ESL:** 1.0E+02  
**Ceiling Value (Odors, etc.):** 1.0E+02  
**Urban Area Ecotoxicity Criteria:** -  
**Direct Exposure:** 4.0E+02  
**Indoor Air Impacts:** (Use soil gas)  
**Groundwater Protection (Soil Leaching):** 4.0E+02

### ESLs for Groundwater

Values Extracted From Table:	F1b
	Units: ug/L
Lowest Groundwater ESL:	5.0E+02
Ceiling Value (Odors, etc.):	5.0E+03
Indoor Air Impacts:	(Use soil gas)
Drinking Water (Toxicity):	
Discharge to Surface Water (Aquatic Life Protection):	5.0E+02

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### ESLs for Surface Water

Values Extracted From Table:	F2a
	Units: ug/L
Lowest Surface Water ESL:	1.0E+02
Ceiling Value (odors, etc):	1.0E+02
Drinking Water:	2.1E+02
Aquatic Habitats Protection:	5.0E+02
Bioaccumulation/ Human Consumption:	

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### Additional Volatile Chemical ESLs

Values Extracted from Tables:	E-3 and E-2
	Units: ug/m3
Indoor Air:	2.6E+01
Shallow Soil Gas:	2.6E+04

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## Background Values for Metals in Soil

		Units:
Background Value for Arsenic:	5.5	mg/kg
Background Value for Total Chromium:	58	mg/ kg

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## What do you want to do with this report?

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