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Alameda County Environmental Health Services Local Oversight Program Attn: Mr. Steven Plunkett 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: UST Case RO0000503, Global ID T0600102133 Former Caltrans Maintenance Station, 3465 Ettie Street, Oakland, California

Dear Mr. Plunkett:

On behalf of the California Department of Transportation (Caltrans), Shaw Environmental, Inc. (Shaw) has prepared this submittal regarding the above referenced site.

Caltrans reviewed their projects files and provided all available data for the site to Shaw for review. In addition, Shaw performed a review of electronic files available through the Alameda County Online Local Oversight Program Records website. Based on our review of the above files, Shaw has prepared the enclosed Request for Case Closure.

Assuming you and the Regional Water Control Board approve this request for case closure, there should be no need for additional field activity; records indicate that all groundwater monitoring wells associated with the site were previously destroyed.

We look forward to working with you to complete the closure of this case. If you have any questions regarding this submittal, please contact me at 408.573.5975.

Sincerely,

Shaw Environmental, Inc.

Andrew D. Lehane Project Manager



A World of Solutions

Alameda County Environmental Health Services Local Oversight Program Attn: Mr. Steven Plunkett 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: Request for Case Closure, UST Case RO0000503, Global ID T0600102133 Former Caltrans Maintenance Station, 3465 Ettie Street, Oakland, California

Dear Mr. Plunkett:

On behalf of the California Department of Transportation (Caltrans), Shaw Environmental, Inc. (Shaw) has prepared this submittal in order to provide a detailed narrative for the case closure request. This letter summarizes previous groundwater and soil investigation results and presents the rationale for a low-risk case closure based on the Oakland-specific, risk-based corrective action (RBCA) standards.

### Site Background

The site is located at 3465 Ettie Street, Oakland, California, directly under an overpass structure for Interstate 580 (Figure 1). The former maintenance station is located in northwest Oakland, approximately ½-mile southeast of San Francisco Bay and ¼-mile south of the Emeryville city limit. It was built in 1959 and is owned by Caltrans; the maintenance station is currently inactive. The property is approximately 240 feet wide and 480 feet long, covering an area of about three acres.

On October 19 and 20, 1995, two underground storage tanks (USTs) and ancillary piping, vent lines, dispenser islands, and fill ports were removed from the site and disposed off-site. Soil and groundwater samples collected at the time of the USTs removal indicated the presence of total petroleum hydrocarbons quantified as diesel (TPH-d) and waste oil range hydrocarbons.

On February 8, 1996, soil and groundwater samples were collected by Tetra Tech from two borings advanced down-gradient from the former USTs and dispensers. Detectable concentrations of total petroleum hydrocarbons quantified as oil (TPH-o) as high as 1,200 milligrams per kilogram (mg/kg) were detected in the soil samples, while the groundwater samples contained detectable concentrations of TPH-o as high as 2,300 milligrams per liter.

An additional investigation of the site area was conducted by PSI in February and March 1996 for seismic retrofitting of the freeway columns and bents. PSI drilled over 100 borings in the general area with four of the borings (BM-29 through BM-32) being adjacent to the bents at the subject site. Soil samples were collected at 0.5, 1, 2, and 5 feet below ground surface (ft bgs). The soil samples from borings BM-29 and BM-30 were analyzed for selected metals, BTEX, and total recoverable petroleum hydrocarbons (TRPH). The soil samples from borings BM-31 and BM-32 were analyzed for selected metals, BTEX, total petroleum hydrocarbon quantified as gas (TPH-g), TPH-d, and TRPH. The results of the soil analyses indicated that two soil samples from these four borings had soluble lead concentrations greater than the soluble threshold limit concentration (STLC) for lead (5 mg/L). These samples were collected at 2 ft bgs in boring BM-30 and at 1 ft bgs in boring BM-32. None of the organic compounds were detected with the exception of TRPH. TRPH concentrations ranged from non-detect to 400 mg/kg. The conclusion of the PSI report stated that there was no correlation between lead and TRPH concentrations and their spatial distribution (PSI Report for Caltrans Distribution Structure, April 4, 1996).

Subsequent soil and water investigations were performed by PSI in July 1997. Five borings were completed by PSI at the former USTs excavation location and the immediate vicinity; four of those borings were converted to groundwater monitoring wells (i.e., MW-1, MW-2, MW-3, and MW-4). Analytical results for soil samples collected in 1997 were non-detect for all constituents except for total oil and grease (TOG), with concentrations ranging from 10 mg/kg to 5,200 mg/kg, however, only two soil samples (B4 and B6 at 5 ft bgs) had reported TOG concentrations over 100 mg/kg.

Groundwater samples collected in September 1997 were non-detect for all constituents in well MW-2. Benzene, toluene, ethylbenzne, and xylenes (BTEX) were detected at 1.1, 0.5, 1.2, and 1.4 micrograms per liter (ug/L), respectively in well MW-1. Methyl tert-butyl ether (MTBE) was the only detected constituent in well MW-3, at a concentration of 118 ug/L.

Subsequent quarterly groundwater monitoring and sampling events were performed in December 1997 and March 1998. MTBE was the only detected constituent in the two additional sampling events, ranging between 29 and 100 ug/L. The groundwater monitoring wells were subsequently destroyed; there are no remaining wells at the site.

### Site Lithology and Hydrogeology

Soil types encountered were reported to consist primarily grayish brown gravel in the upper 3 feet of soil. The gravel was underlain by yellowish brown gravelly clay to about 7 ft bgs, which was underlain by black "Bay Mud" clay. The black "Bay Mud" clay continues from 7 ft bgs to the depth of the borings explored.

Groundwater in the vicinity of the site is found at sea level near the shore and roughly follows the topography in higher areas. Groundwater levels may be tidally influenced due to the proximity to San Francisco Bay, located approximately ½-mile to the northwest. Groundwater closest to the surface is believed to be present in an unconfined water table aquifer, with groundwater flow generally west and northwest towards the bay at a hydraulic gradient of approximately 0.01. During the 1997 site investigations, groundwater was encountered at about 11 ft bgs. Depth to water varies between 7.13 to 8.23 ft bgs in the three quarterly sampling events performed from September 1997 to March 1998.

### **City of Oakland RBCA Standards**

Shaw has evaluated the site following the guidance for low-risk site closure set forth in the Oakland Tiered Risk-based Corrective Action (RBCA) Process. The City of Oakland RBCA Eligibility Checklist (see Attachment A) was completed to determine if the site was eligible for comparison with the Tier 1 and/or Tier 2 risk-based screening levels (RBSLs), or whether comparison using Tier 3 site specific target levels (SSTLs) was necessary. Results of the checklist indicate that establishment of Tier 3 SSTLs was necessary for the subject site since the groundwater occurs less than 10 ft bgs, and inhalation of volatilized contaminants of concern (COCs) from groundwater to indoor air or outdoor air is a pathway of concern, but groundwater ingestion is not.

Tier 3 SSTLs were calculated for the site using the "Oakland Risk-Based Corrective Action Spreadsheet" available on the City of Oakland Public Work Agency, Environmental Services Division (PWA) website. Base on the site lithology and hydrogeology, Shaw used the clayey silt input default parameters and the site specific depth to groundwater data to calculate Tier 3 SSTLs. Input parameters and Tier 3 SSTLs values for the subject site are included in Attachments B.

Detected chemical concentrations in previous soil and groundwater samples at the subject site were compared with Tier 3 SSTLs values in Tables 1 to 3. The applied RBSLs and SSTLs were based on viable exposure pathways associated with present and potential future property uses of the subject site. Since shallow-depth groundwater beneath the site is not used for drinking water purposes, the only exposure pathways applicable for the site are indoor and outdoor inhalation risk from groundwater and soil, and direct exposure to soil (i.e. future construction work). Additionally, since the site is underneath Interstate 580, and the surrounding areas are of primarily commercial use, the subject site would be classified as commercial property when using the Tier 1 and Tier 3 tables.

Table 1 shows that the detected concentrations of COCs in groundwater from previous sampling events are all below the Tier 3 SSTLs values for indoor and outdoor inhalation risks. Tables 2 and 3 shows that the detected concentrations of COCs in soil

from previous site investigations are also below the Tier 3 SSTLs values for the three different exposure pathways of concern.

## **Rationale for Case Closure**

Shaw has reviewed the available files regarding the site and compared site conditions with the criteria presented in the Oakland Tiered RBCA Process regarding case closure. Based on our review, we believe the site meets the criteria for case closure. More specifically:

- The USTs have been removed and there are no known sources associated with the USTs remaining.
- The site has been adequately characterized through the collection of soil and groundwater samples within the former USTs excavation and the immediate vicinity.
- The site investigations indicate that soil and groundwater impacts are highly localized and stable.
- Groundwater in the vicinity of the site is not likely to be used as a source of drinking water in the foreseeable future.
- All detected chemicals in soil and groundwater are below the Tier 3 SSTLs developed using the software from City of Oakland PWA for the Oakland Tiered RBCA Process.
- In our opinion, there are no known risks to human health or the environment presented by this site.

### Disclaimer

This report was prepared under the supervision and direction of the undersigned. The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with Shaw's client. This report is solely for the use and information of Shaw's client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Shaw is not responsible for the impacts

of any changes in environmental standards, practices, or regulations subsequent to performance of services. Portions of this report were prepared using information supplied by other consultants or contractors employed by the client. Shaw does not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

Caltrans and Shaw appreciate your attention to this request for case closure. Should you have any questions regarding this request, please do not hesitate to contact me at 408.573.5975.

Sincerely, Shaw Environmental, Inc.

Andrew. ne

Andrew D. Lehane Project Manager RCE 55798



cc: Mr. Ray Boyer, Caltrans Mr. William Whiteley, Caltrans

Attachments: Figure 1 - Site Location Map Table 1 - COC Concentrations in Groundwater Table 2 - COC Concentrations in Soil (Petroleum Hydrocarbons, BTEX, and MTBE)
Table 3 - COC Concentrations in Soil (Metals)
Attachment A – Completed Oakland RBCA Eligibility Checklist Attachment B – Tier 3 SSTLs Table



# ATTACHMENT A COMPLETED OAKLAND RBCA ELIGIBILITY CHECKLIST

### **Oakland RBCA Eligibility Checklist**



The Oakland Tier 1 RBSLs and Tier 2 SSTLs are intended to address human health concerns at the majority of sites in Oakland where commonly-found contaminants are present. Complicated sites—especially those with continuing

releases, ecological concerns or unusual subsurface conditions—will likely require a Tier 3 analysis. The following checklist is designed to assist you in determining your site's eligibility for the Oakland RBCA levels.

	CRITERIA	YES	NO
1.	Is there a continuing, <i>primary</i> source of a chemical of concern, such as a		
	leaking container, tank or pipe? (This does not include residual sources.)		$\boxtimes$
2.	Is there any mobile or potentially-mobile free product?		$\boxtimes$
3.	Are there more than five chemicals of concern at the site at a concentration		
	greater than the lowest applicable Oakland RBCA level?		$\boxtimes$
4.	Are there any preferential vapor migration pathways—such as gravel channels		
	or utility corridors—that are potential conduits for the migration, on-site or		
	off-site, of a volatilized chemical of concern?		$\boxtimes$
5.	Do both of the following conditions exist?		
	(a) Groundwater is at depths less than 300 cm (10 feet)		
	(b) Inhalation of volatilized chemicals of concern from groundwater in indoor		
	or outdoor air is a pathway of concern but groundwater ingestion is <i>not</i> *	$\boxtimes$	
6.	Are there any existing on-site or off-site structures intended for future use		
	where exposure to indoor air vapors from either soil or groundwater is of		
	concern and one of the following three conditions is present?		
	(a) A slab-on-grade foundation that is less than 15 cm (6 inches) thick		
	(b) An enclosed, below-grade space (e.g., a basement) that has floors or walls		
	less than 15 cm (6 inches) thick		
	(c) A crawl space that is not ventilated		$\boxtimes$
7.	Are there any immediate, acute health risks to humans associated with		
	contamination at the site, including explosive levels of a chemical?		$\bowtie$
8.	Are there any complete exposure pathways to nearby ecological receptors,		
	such as endangered species, wildlife refuge areas, wetlands, surface water		
	bodies or other protected areas?		$\boxtimes$

\*If groundwater ingestion *is* a pathway of concern, the associated Oakland RBCA levels will be more stringent than those for any groundwater-related inhalation scenario, rendering depth to groundwater irrelevant in the risk analysis.

If you answer "no" to all questions, your site is eligible for the Oakland RBCA levels. If you answer "yes" to any of the questions, your site is *not* eligible for the Oakland RBCA levels at this time.

# ATTACHMENT B TIER 3 SSTLS TABLE

# Inputs

		Resid	lential	Commercial/ Industrial
Input Parameters	Units	Child	Adult	Worker
	Soil-Specific P	arameters		
Capillary fringe thickness	cm		152	
Capillary fringe air content	cm <sup>3</sup> /cm <sup>3</sup>		0.010	
Capillary fringe water content	cm <sup>3</sup> /cm <sup>3</sup>		0.49	
Fraction organic carbon (FOC*)	g oc/g soil	=adult	0.02	=adult
Groundwater Darcy velocity	cm/yr	residential	6	residential
Groundwater mixing zone thickness	cm		1524	
Infiltration rate through the vadose zone	e cm/yr		3	
Soil bulk density	g/cm <sup>3</sup>		1.33	
Soil to skin adherence factor	mg/cm <sup>2</sup>	1	1	1
Total soil porosity	cm <sup>3</sup> /cm <sup>3</sup>		0.5	
Vadose zone air content	cm <sup>3</sup> /cm <sup>3</sup>	=adult	0.1	=adult
Vadose zone water content	cm <sup>3</sup> /cm <sup>3</sup>	residential	0.4	residential
Vadose zone thickness	cm		92	
Stru	ctural and Clima	atic Parameters		
Areal fraction of cracks in building foundation	cm <sup>2</sup> /cm <sup>2</sup>		0.001	0.001
Foundation air content	cm <sup>3</sup> /cm <sup>3</sup>		0.26	=adult
Foundation water content	cm <sup>3</sup> /cm <sup>3</sup>		0.12	residential
Foundation thickness	cm		15	15
Lower depth of surficial soil zone	cm		100.0	
Depth to subsurface soil sources	cm	=adult residential	100	
Depth to groundwater	cm		244	=adult residential
Width of source area parallel to wind or groundwater flow directior	cm		1500	
Outdoor air mixing zone height	cm		200	
Particulate emission rate	g/cm <sup>2</sup> -s		1.38E-11	1.38E-11
Wind speed above ground surface in outdoor air mixing zone	cm/s		322	=adult residentia

# Inputs

		Resid	lential	Commercial/ Industrial
Input Parameters	Units	Child	Adult	Worker
	Exposure Par	ameters		
Averaging time for carcinogens	yr	=adult residentia	70	=adult residentia
Averaging time for non-carcinogens	yr	6	24	25
Averaging time for vapor flux	S	=adult residentia	9.46E+08	7.88E+08
Body weight	kg	15	70	70
Building air volume/floor area	cm <sup>3</sup> /cm <sup>2</sup>	=adult residentia	229	305
Exposure duration	yr	6	24	25
Exposure frequency	d/yr	350	350	250
Exposure frequency to water used for recreation	d/yr	120	120	0
Exposure time to indoor air	hr/d	24	24	9
Exposure time to outdoor air	hr/d	16	16	9
Exposure time to water used for recreation	hr/d	2	1.0	0
Groundwater ingestion rate	L/d	1	2	1
Indoor air exchange rate	1/s	=adult residentia	5.60E-04	1.40E-03
Indoor inhalation rate	m³/d	10	15	20
Ingestion rate of water used for recreation	L/hr	0.05	0.05	0
Outdoor inhalation rate	m³/d	10	20	20
Skin surface area exposed to soil	cm <sup>2</sup>	2000	5000	5000
Skin surface area exposed to water used for recreatior	cm <sup>2</sup>	8000	20000	0
Soil ingestion rate	mg/d	200	100	50
	TARGET RISK	LEVELS		
Individual Excess Lifetime Cancer Risk	unitless	=adult	1.0E-05	1.0E-05
Hazard quotient	unitless	residential	1.0	1.0

Medium	Exposure Pathway	Land Use	Type of Risk	Acenaph- thene	Acenaph- thylene	Acetone	Anthra- cene	Arsenic	Barium	Benz(a)- anthracene	Benzene	Benzo(a)- pyrene
		Residential	Carcinogenic					2.6E+00		1.7E+00	1.9E+01	1.7E-01
Surficial Soil	Ingestion/	Residential	Hazard	2.3E+03	2.3E+03	3.7E+03	1.2E+04	1.8E+01	5.0E+03		6.3E+01	
[mg/kg]	Inhalation	Commercial/	Carcinogenic					9.5E+00		4.3E+00	4.9E+01	4.3E-01
		Industrial	Hazard	1.1E+04	1.1E+04	1.8E+04	5.6E+04	1.5E+02	7.1E+04		3.0E+02	
		Residential	Carcinogenic							SAT	1.9E+00	SAT
	Inhalation of	residential	Hazard	SAT	SAT	6.3E+03	SAT				6.2E+00	
	Vapors	Commercial/	Carcinogenic							SAT	3.0E+01	SAT
		Industrial	Hazard	SAT	SAT	1.8E+05	SAT				1.8E+02	
		Residential	Carcinogenic							SAT	1.6E+02	SAT
Subsurface Soil	Inhalation of	rtoolaontai	Hazard	SAT	SAT	1.2E+05	SAT				6.5E+02	
[mg/kg]	Vapors	Commercial/	Carcinogenic							SAT	6.2E+02	SAT
		Industrial	Hazard	SAT	SAT	SAT	SAT				SAT	
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic					4.4E+00	1.3E+02	1.4E+01	4.5E-03	1.2E+01
			Hazard	4.0E+02	2.7E+02	1.5E+00	SAT	4.4E+00	1.3E+02		4.5E-03	1.2E+01
		Commercial/ Industrial	Carcinogenic					4.4E+00	1.3E+02	5.8E+01	4.5E-03	1.2E+01
			Hazard	SAT	SAT	9.7E+00	SAT	4.4E+00	1.3E+02		4.5E-03	1.2E+01
		Residential	Carcinogenic							>SOL	5.5E+00	>SOL
	Inhalation of	rtoolaontai	Hazard	>SOL	>SOL	2.1E+04	>SOL				1.8E+01	
	Vapors	Commercial/	Carcinogenic							>SOL	8.7E+01	>SOL
		Industrial	Hazard	>SOL	>SOL	6.1E+05	>SOL				5.3E+02	
		Residential	Carcinogenic							>SOL	>SOL	>SOL
Groundwater	Inhalation of Outdoor Air	ricoluonida	Hazard	>SOL	>SOL	7.3E+05	>SOL				>SOL	
[mg/l]	Vapors	Commercial/	Carcinogenic							>SOL	>SOL	>SOL
		Industrial	Hazard	>SOL	>SOL	>SOL	>SOL				>SOL	
		Residential	Carcinogenic					5.0E-02	1.0E+00	5.6E-04	1.0E-03	2.0E-04
	Ingestion of		Hazard	9.4E-01	9.4E-01	1.6E+00	>SOL	5.0E-02	1.0E+00		1.0E-03	2.0E-04
	Groundwater	Commercial/	Carcinogenic					5.0E-02	1.0E+00	2.4E-03	1.0E-03	2.0E-04
		Industrial	Hazard	>SOL	>SOL	1.0E+01	>SOL	5.0E-02	1.0E+00		1.0E-03	2.0E-04
Water Used for	Ingestion/	Residential	Carcinogenic					2.0E-02		1.6E-04	6.3E-02	1.1E-05
Recreation [mg/l]	Dermal		Hazard	1.1E+00	1.7E+00	4.2E+01	>SOL	1.2E-01	2.8E+01		1.8E-01	

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Benzo(b)- fluoranthene	Benzo(g,h,i)- perylene	Benzo(k)- fluoranthene	Beryllium	Bis(2- ethylhexyl)- phthalate	Butyl benzyl phthalate	Cadmium	Carbon Disulfide
		Posidontial	Carcinogenic	1.7E+00		1.7E+00	4.5E+04	2.4E+02		2.1E+04	
Surficial Soil	Ingestion/	Residential	Hazard		1.6E+02		3.6E+02	7.8E+02	7.8E+03	3.6E+01	1.4E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	4.3E+00		4.3E+00	1.7E+05	6.2E+02		7.9E+04	
		Industrial	Hazard		7.4E+02		5.1E+03	3.7E+03	3.7E+04	5.1E+02	6.5E+03
		Residential	Carcinogenic	SAT		SAT		SAT			
	Inhalation of		Hazard		SAT			SAT			2.9E+00
	Vapors	Commercial/	Carcinogenic	SAT		SAT		SAT			
		Industrial	Hazard		SAT			SAT			8.4E+01
		Residential	Carcinogenic	SAT		SAT		SAT			
Subsurface Soil	Inhalation of Outdoor Air		Hazard		SAT			SAT			3.1E+02
[mg/kg]	[mg/kg] Vapors	Commercial/	Carcinogenic	SAT		SAT		SAT			
		Industrial	Hazard		SAT			SAT			SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	SAT		SAT	9.6E+00	7.3E+04		1.1E+00	
			Hazard		SAT		9.6E+00	SAT	SAT	1.1E+00	6.0E+00
		Commercial/ Industrial	Carcinogenic	SAT		SAT	9.6E+00	SAT		1.1E+00	
			Hazard		SAT		9.6E+00	SAT	SAT	1.1E+00	3.9E+01
	labeletica of	Residential	Carcinogenic	>SOL		>SOL		>SOL			
	Indoor Air		Hazard		>SOL			>SOL			2.6E+01
	Vapors	Commercial/	Carcinogenic	>SOL		>SOL		>SOL			
		Industrial	Hazard		>SOL			>SOL			7.5E+02
	Induction of	Residential	Carcinogenic	>SOL		>SOL		>SOL			
Groundwater	Outdoor Air		Hazard		>SOL			>SOL			>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic	>SOL		>SOL		>SOL			
		Industrial	Hazard		>SOL			>SOL			>SOL
		Residential	Carcinogenic	5.6E-04		5.6E-04	4.0E-03	8.0E-02		5.0E-03	ļ
	Ingestion of		Hazard		>SOL		4.0E-03	3.1E-01	>SOL	5.0E-03	1.6E+00
	Groundwater	Commercial/	Carcinogenic	>SOL		>SOL	4.0E-03	>SOL		5.0E-03	
		Industrial	Hazard		>SOL		4.0E-03	>SOL	>SOL	5.0E-03	1.0E+01
Water Used for	Ingestion/	Residential	Carcinogenic	1.1E-04		1.2E-04		>SOL			
Recreation [mg/l]	Dermal		Hazard		>SOL		2.0E+00	>SOL	>SOL	2.0E-01	9.4E+00

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Carbon Tetrachloride	Chloro- benzene	Chloroform	Chromium (III)	Chromium (VI)	Chrysene	Copper	Cresol(-m)	Cresol(-o)
		Posidontial	Carcinogenic	1.2E+01		6.2E+01		1.2E+01	1.7E+01			
Surficial Soil	Ingestion/	Residential	Hazard	2.6E+01	6.6E+02	3.7E+02	7.1E+04	3.6E+02		2.6E+03	1.9E+03	1.9E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	3.3E+01		1.6E+02		6.6E+01	4.3E+01			
		Industrial	Hazard	1.2E+02	3.1E+03	1.8E+03	1.0E+06	5.1E+03		3.8E+04	9.2E+03	9.2E+03
		Residential	Carcinogenic	6.7E-01		9.3E+00			SAT			
	Inhalation of	Residentia	Hazard	1.1E+00	1.9E+00	3.5E+01					SAT	SAT
	Vapors	Commercial/	Carcinogenic	1.1E+01		1.5E+02			SAT			
		Industrial	Hazard	3.2E+01	5.5E+01	1.0E+03					SAT	SAT
		Residential	Carcinogenic	6.1E+01		8.1E+02			SAT			
Subsurface Soil	Inhalation of Outdoor Air		Hazard	1.2E+02	2.1E+02	3.6E+03					SAT	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic	2.3E+02		3.1E+03			SAT			
		Industrial	Hazard	7.0E+02	SAT	SAT					SAT	SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	5.9E-03	1.6E-01	3.4E-01		2.9E+00	SAT	1.2E+00		
			Hazard	5.9E-03	1.6E-01	3.4E-01	8.5E+07	2.9E+00		1.2E+00	4.8E+00	5.0E+00
		ed by Commercial/	Carcinogenic	5.9E-03	1.6E-01	3.4E-01		2.9E+00	SAT	1.2E+00		
		Industrial	Hazard	5.9E-03	1.6E-01	3.4E-01	5.6E+08	2.9E+00		1.2E+00	3.2E+01	3.3E+01
	labeletien of	Residential	Carcinogenic	3.3E+00		3.0E+01			>SOL			
	Indoor Air		Hazard	5.5E+00	5.5E+01	1.1E+02					>SOL	>SOL
	Vapors	Commercial/	Carcinogenic	5.2E+01		4.8E+02			>SOL			
		Industrial	Hazard	1.6E+02	>SOL	3.3E+03					>SOL	>SOL
	labeletien of	Residential	Carcinogenic	>SOL		>SOL			>SOL			
Groundwater	Outdoor Air		Hazard	>SOL	>SOL	>SOL					>SOL	>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic	>SOL		>SOL			>SOL			
		Industrial	Hazard	>SOL	>SOL	>SOL					>SOL	>SOL
		Residential	Carcinogenic	5.0E-04	7.0E-02	1.0E-01		5.0E-02	>SOL	1.3E+00		
	Ingestion of		Hazard	5.0E-04	7.0E-02	1.0E-01	1.6E+01	5.0E-02		1.3E+00	7.8E-01	7.8E-01
	Groundwater	Commercial/	Carcinogenic	5.0E-04	7.0E-02	1.0E-01		5.0E-02	>SOL	1.3E+00		
		Industrial	Hazard	5.0E-04	7.0E-02	1.0E-01	1.0E+02	5.0E-02		1.3E+00	5.1E+00	5.1E+00
Water Used for	Ingestion/	Residential	Carcinogenic	4.1E-02		3.9E-01		6.8E-02	>SOL			
Recreation [mg/l]	Dermal		Hazard	7.1E-02	1.2E+00	1.9E+00	3.8E+02	1.9E+00		1.5E+01	6.7E+00	6.4E+00

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Cresol(-p)	Cyanide	Dibenz(a,h)- anthracene	Dichloro ethane (1,1-)	Dichloro ethane (1,2-) (EDC)	Dichloro ethylene (1,1-)	Dichloro ethylene (cis 1,2-)	Dichloro ethene (trans 1,2)
		Posidontial	Carcinogenic			4.9E-01	3.3E+02	2.7E+01	3.3E+00		
Surficial Soil	Ingestion/	Residential	Hazard	1.9E+02	2.8E+03		3.8E+03	1.1E+02	3.3E+02	3.7E+02	7.4E+02
[mg/kg]	Inhalation	Commercial/	Carcinogenic			1.3E+00	8.7E+02	7.1E+01	8.5E+00		
		Industrial	Hazard	9.2E+02	4.1E+04		1.8E+04	5.1E+02	1.6E+03	1.8E+03	3.5E+03
		Residential	Carcinogenic			SAT	2.4E+01	5.4E+00	2.3E-01		
	Inhalation of	Residential	Hazard	SAT			3.8E+02	2.1E+01	7.2E+00	4.0E+01	4.9E+01
	Vapors	Commercial/	Carcinogenic			SAT	3.9E+02	8.6E+01	3.6E+00		
	-	Industrial	Hazard	SAT			SAT	6.2E+02	2.1E+02	1.2E+03	1.4E+03
		Residential	Carcinogenic			SAT	2.1E+03	4.2E+02	2.1E+01		
Subsurface Soil	Inhalation of	rtcolderitidi	Hazard	5.1E+04			SAT	2.0E+03	7.8E+02	SAT	5.2E+03
[mg/kg]	Vapors	Commercial/	Carcinogenic			SAT	SAT	1.6E+03	7.8E+01		
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic		6.2E+00	3.8E+01	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02
			Hazard	4.6E-01	6.2E+00		1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02
		y Commercial/ Industrial	Carcinogenic		6.2E+00	1.6E+02	1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02
			Hazard	3.0E+00	6.2E+00		1.4E-02	9.9E-04	2.8E-02	1.9E-02	4.2E-02
		Residential	Carcinogenic			>SOL	9.5E+01	1.4E+01	2.3E+00		
	Inhalation of	rtcolderitidi	Hazard	>SOL			1.5E+03	5.6E+01	7.4E+01	1.1E+02	1.7E+02
	Vapors	Commercial/	Carcinogenic			>SOL	1.5E+03	2.3E+02	3.7E+01		
		Industrial	Hazard	>SOL			>SOL	1.6E+03	2.1E+03	3.2E+03	5.0E+03
		Residential	Carcinogenic			>SOL	>SOL	3.1E+03	9.4E+02		
Groundwater	Inhalation of Outdoor Air		Hazard	>SOL			>SOL	>SOL	>SOL	>SOL	>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic			>SOL	>SOL	>SOL	>SOL		
		Industrial	Hazard	>SOL			>SOL	>SOL	>SOL	>SOL	>SOL
		Residential	Carcinogenic		2.0E-01	1.6E-04	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02
	Ingestion of		Hazard	7.8E-02	2.0E-01		5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02
	Groundwater	Commercial/	Carcinogenic		2.0E-01	7.0E-04	5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02
		Industrial	Hazard	5.1E-01	2.0E-01		5.0E-03	5.0E-04	6.0E-03	6.0E-03	1.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic			1.4E-05	2.1E+00	2.4E-01	1.3E-02		
Recreation [mg/l]	Dermal		Hazard	5.9E-01	7.0E+00		1.9E+01	7.2E-01	1.2E+00	1.8E+00	3.5E+00

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Dimethyl- benza(a) anthracene (7,12)	Dimethyl phenol (2,4)	di-n-Butyl- phthalate	di-n-octyl phthalate	Dinitro toluene (2,4)	Dioxane (1,4)	Ethyl- benzene	Ethylene Dibromide	Flouran- thene
		Posidontial	Carcinogenic					6.3E+00	7.0E+01		5.5E-01	
Surficial Soil	Ingestion/	Residential	Hazard	1.2E+03	7.7E+02	3.9E+03	7.8E+02			3.9E+03	2.2E+00	1.6E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic					1.7E+01	1.8E+02		1.4E+00	
		Industrial	Hazard	5.6E+03	3.7E+03	1.9E+04	3.7E+03			1.8E+04	1.0E+01	7.4E+03
		Residential	Carcinogenic					SAT	SAT		7.5E+00	
	Inhalation of	Residential	Hazard		SAT	SAT	SAT			SAT	2.1E+00	SAT
	Vapors	Commercial/	Carcinogenic					SAT	SAT		1.2E+02	
		Industrial	Hazard		SAT	SAT	SAT			SAT	6.1E+01	SAT
		Residential	Carcinogenic					SAT	SAT		4.5E+02	
Subsurface Soil	Inhalation of Outdoor Air		Hazard		SAT	SAT	SAT			SAT	1.5E+02	SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic					SAT	SAT		1.7E+03	
		Industrial	Hazard		SAT	SAT	SAT			SAT	8.7E+02	SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic					1.5E-02	SAT	1.6E+01	1.8E-04	
			Hazard	SAT	4.3E+00	7.9E+06	SAT			1.6E+01	1.8E-04	SAT
		ate Commercial/ Industrial	Carcinogenic					6.2E-02	SAT	1.6E+01	1.8E-04	
			Hazard	SAT	2.8E+01	SAT	SAT			1.6E+01	1.8E-04	SAT
		Residential	Carcinogenic					>SOL	>SOL		8.0E+00	
	Inhalation of		Hazard		>SOL	>SOL	>SOL			>SOL	2.2E+00	>SOL
	Vapors	Commercial/	Carcinogenic					>SOL	>SOL		1.3E+02	
		Industrial	Hazard		>SOL	>SOL	>SOL			>SOL	6.5E+01	>SOL
	labelation of	Residential	Carcinogenic					>SOL	>SOL		1.1E+03	
Groundwater	Outdoor Air		Hazard		>SOL	>SOL	>SOL			>SOL	3.6E+02	>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic					>SOL	>SOL		4.1E+03	
		Industrial	Hazard		>SOL	>SOL	>SOL			>SOL	2.1E+03	>SOL
		Residential	Carcinogenic					2.2E-03	>SOL	7.0E-01	5.0E-05	
	Ingestion of		Hazard	>SOL	3.1E-01	1.6E+00	>SOL			7.0E-01	5.0E-05	>SOL
	Groundwater	Commercial/	Carcinogenic					9.2E-03	>SOL	7.0E-01	5.0E-05	
		Industrial	Hazard	>SOL	2.0E+00	1.0E+01	>SOL			7.0E-01	5.0E-05	>SOL
Water Used for	Ingestion/	Residential	Carcinogenic					6.4E-02	>SOL		5.9E-03	
Recreation [mg/l]	Dermal		Hazard	>SOL	2.7E+00	7.3E+00	2.1E-03			3.6E+00	1.7E-02	>SOL

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Fluorene	Indeno- (1,2,3-CD) pyrene	Mercury	Methanol	Methyl ethyl ketone	Methylene Chloride	Methyl- napthalene (2-)	МТВЕ	Naphthalene
		Posidontial	Carcinogenic		1.7E+00				1.4E+02			
Surficial Soil	Ingestion/	Residentia	Hazard	1.6E+03		3.9E+00	1.9E+04	2.2E+04	2.3E+03	1.6E+03	2.0E+02	1.6E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic		4.3E+00				3.7E+02			
		Industrial	Hazard	7.4E+03		1.8E+01	8.9E+04	1.0E+05	1.1E+04	7.4E+03	9.3E+02	7.4E+03
		Residential	Carcinogenic		SAT				4.2E+01			
	Inhalation of	Residential	Hazard	SAT		1.5E+01	1.9E+05	2.4E+04	2.5E+03	SAT	1.4E+04	SAT
	Vapors	Commercial/	Carcinogenic		SAT				6.7E+02			
		Industrial	Hazard	SAT			SAT	SAT	SAT	SAT	SAT	SAT
		Residential	Carcinogenic		SAT				3.5E+03			
Subsurface Soil	Inhalation of Outdoor Air	rtoordontidi	Hazard	SAT		1.6E+03	SAT	SAT	SAT	SAT	SAT	SAT
[mg/kg]	y/kg] Vapors	Commercial/	Carcinogenic		SAT				SAT			
		Industrial	Hazard	SAT		9.4E+03	SAT	SAT	SAT	SAT	SAT	SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic		SAT	3.2E-01			8.2E-03		2.1E-02	2.4E+00
			Hazard	5.2E+02		3.2E-01	7.1E+00	1.1E+01	8.2E-03	3.2E+02	2.1E-02	2.4E+00
		e Commercial/ Industrial	Carcinogenic		SAT	3.2E-01			8.2E-03		2.1E-02	2.4E+00
			Hazard	SAT		3.2E-01	4.7E+01	7.3E+01	8.2E-03	2.1E+03	2.1E-02	2.4E+00
	hale all the second	Residential	Carcinogenic		>SOL				1.8E+02			
	Innalation of Indoor Air		Hazard	>SOL		1.4E+00	6.4E+05	6.4E+04	1.0E+04	>SOL	3.4E+04	>SOL
	Vapors	Commercial/	Carcinogenic		>SOL				2.8E+03			
		Industrial	Hazard	>SOL		4.1E+01	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
	lubeletien of	Residential	Carcinogenic		>SOL				>SOL			
Groundwater	Outdoor Air		Hazard	>SOL		5.9E+02	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic		>SOL				>SOL			
		Industrial	Hazard	>SOL		3.4E+03	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
		Residential	Carcinogenic		>SOL	2.0E-03			5.0E-03		1.3E-02	2.0E-02
	Ingestion of		Hazard	6.3E-01		2.0E-03	7.8E+00	9.4E+00	5.0E-03	6.3E-01	1.3E-02	2.0E-02
(	Groundwater	Commercial/	Carcinogenic		>SOL	2.0E-03			5.0E-03		1.3E-02	2.0E-02
		Industrial	Hazard	>SOL		2.0E-03	5.1E+01	6.1E+01	5.0E-03	4.1E+00	1.3E-02	2.0E-02
Water Used for	Ingestion/	Residential	Carcinogenic		>SOL				1.3E+00			
Recreation [mg/l]	Dermal		Hazard	3.1E-01		3.6E-02	2.2E+02	1.5E+02	1.6E+01	6.1E-01	1.5E+00	1.5E+00

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Nickel	Nitro benzene	PCBs	Phenan- threne	Phenol	Pyrene	Pyridine	Selenium	Silver	Stryene
		Pesidential	Carcinogenic	3.4E+05	3.7E+03	3.6E-01				2.0E+03			
Surficial Soil	Ingestion/ Dermal/	Residential	Hazard	1.4E+03		9.8E-01	1.2E+04	2.3E+04	1.2E+03		3.6E+02	3.6E+02	7.7E+03
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.3E+06	9.9E+03	1.1E+00				5.1E+03			
		Industrial	Hazard	2.0E+04		5.8E+00	5.6E+04	1.1E+05	5.6E+03		5.1E+03	5.1E+03	3.7E+04
		Residential	Carcinogenic		SAT	1.6E+03				6.6E+04			
	Inhalation of Indoor Air	Residentia	Hazard			SAT	SAT	SAT	SAT				SAT
	Vapors	Commercial/	Carcinogenic		SAT	SAT				1.1E+06			
		Industrial	Hazard			SAT	SAT	SAT	SAT				SAT
		Residential	Carcinogenic		SAT	SAT				3.9E+05			
Subsurface Soil	Inhalation of Outdoor Air		Hazard			SAT	SAT	SAT	SAT				SAT
[mg/kg]	Vapors	Commercial/	Carcinogenic		SAT	SAT				SAT			
		Industrial	Hazard			SAT	SAT	SAT	SAT				SAT
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	2.0E+01	6.5E+00	9.4E+00				2.8E+00	8.0E-01	2.6E+00	4.8E+00
			Hazard	2.0E+01		9.4E+00	SAT	2.5E+01	SAT		8.0E-01	2.6E+00	4.8E+00
		e Commercial/ Industrial	Carcinogenic	2.0E+01	2.8E+01	9.4E+00				1.2E+01	8.0E-01	2.6E+00	4.8E+00
			Hazard	2.0E+01		9.4E+00	SAT	1.6E+02	SAT		8.0E-01	2.6E+00	4.8E+00
	labelation of	Residential	Carcinogenic		>SOL	3.1E-01				4.8E+04			
	Innalation of Indoor Air		Hazard			>SOL	>SOL	>SOL	>SOL				>SOL
	Vapors	Commercial/	Carcinogenic		>SOL	>SOL				7.7E+05			
		Industrial	Hazard			>SOL	>SOL	>SOL	>SOL				>SOL
	labelation of	Residential	Carcinogenic		>SOL	>SOL				5.0E+05			
Groundwater	Outdoor Air		Hazard			>SOL	>SOL	>SOL	>SOL				>SOL
[mg/l]	Vapors	Commercial/	Carcinogenic		>SOL	>SOL				>SOL			
		Industrial	Hazard			>SOL	>SOL	>SOL	>SOL				>SOL
		Residential	Carcinogenic	1.0E-01	1.3E+00	5.0E-04				6.7E-01	5.0E-02	1.0E-01	1.0E-01
	Ingestion of		Hazard	1.0E-01		5.0E-04	>SOL	9.4E+00	>SOL		5.0E-02	1.0E-01	1.0E-01
	Groundwater	Commercial/	Carcinogenic	1.0E-01	5.7E+00	5.0E-04				2.9E+00	5.0E-02	1.0E-01	1.0E-01
		Industrial	Hazard	1.0E-01		5.0E-04	>SOL	6.1E+01	>SOL		5.0E-02	1.0E-01	1.0E-01
Water Used for	Ingestion/	Residential	Carcinogenic		2.8E+01	1.6E-05				2.6E+01			
Recreation [mg/l]	Dermal		Hazard	7.9E+00		4.4E-05	>SOL	1.5E+02	>SOL		2.0E+00	2.1E+00	9.3E+00

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Tetrachloro ethane (1,1,2,2 -)	Tetrachloro- ethylene (PCE)	Tetraethyl Lead	Toluene	Trichloro ethane (1,1,1-)	Trichloro ethane (1,1,2-)	Trichloro- ethylene (TCE)	Vanadium	Vinyl Chloride
		Posidontial	Carcinogenic	7.2E+00	3.8E+01				2.7E+01	1.3E+02		3.5E+00
Surficial Soil	Ingestion/	Residential	Hazard	1.0E+03	3.7E+02	3.9E-03	7.1E+03	1.4E+03	1.5E+02	2.2E+02	5.0E+02	
[mg/kg]	Inhalation	Commercial/	Carcinogenic	1.9E+01	1.0E+02				7.0E+01	3.3E+02		9.1E+00
		Industrial	Hazard	4.7E+03	1.8E+03	1.9E-02	3.4E+04	6.5E+03	7.2E+02	1.1E+03	7.2E+03	
		Residential	Carcinogenic	1.8E+01	7.6E+00				1.5E+01	2.7E+01		3.0E-02
	Inhalation of	Residential	Hazard	2.5E+03	3.1E+01		9.3E+02	6.6E+02	8.4E+01	3.2E+01		
	Vapors	Commercial/	Carcinogenic	2.9E+02	1.2E+02				2.4E+02	4.4E+02		4.8E-01
		Industrial	Hazard	SAT	SAT		SAT	SAT	2.4E+03	9.3E+02		
		Residential	Carcinogenic	1.0E+03	6.9E+02				1.1E+03	2.5E+03		2.7E+00
Subsurface Soil	Inhalation of Outdoor Air		Hazard	SAT	SAT		SAT	SAT	SAT	3.4E+03		
[mg/kg] Vapors	Commercial/	Carcinogenic	3.9E+03	SAT				4.2E+03	SAT		1.0E+01	
		Industrial	Hazard	SAT	SAT		SAT	SAT	SAT	SAT		
	Ingestion of Groundwater Impacted by Leachate	Residential	Carcinogenic	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02	5.5E-02		1.1E-03
			Hazard	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02	5.5E-02	3.3E+02	1.1E-03
		by e Commercial/ Industrial	Carcinogenic	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02	5.5E-02		1.1E-03
			Hazard	6.6E-03	5.2E-02	4.6E+00	1.8E+00	1.5E+00	2.0E-02	5.5E-02	2.2E+03	1.1E-03
		Residential	Carcinogenic	1.0E+01	2.6E+01				1.8E+01	5.3E+01		6.6E-01
	Inhalation of Indoor Air		Hazard	1.4E+03	1.1E+02		>SOL	>SOL	1.0E+02	6.2E+01		
	Vapors	Commercial/	Carcinogenic	1.6E+02	>SOL				2.8E+02	8.4E+02		1.0E+01
		Industrial	Hazard	>SOL	>SOL		>SOL	>SOL	2.9E+03	>SOL		
	hale all the set	Residential	Carcinogenic	1.3E+03	>SOL				3.6E+03	>SOL		2.6E+02
Groundwater	Outdoor Air		Hazard	>SOL	>SOL		>SOL	>SOL	>SOL	>SOL		
[mg/l]	Vapors	Commercial/	Carcinogenic	>SOL	>SOL				>SOL	>SOL		1.0E+03
		Industrial	Hazard	>SOL	>SOL		>SOL	>SOL	>SOL	>SOL		
		Residential	Carcinogenic	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	5.0E-03		5.0E-04
	Ingestion of		Hazard	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	5.0E-03	1.1E-01	5.0E-04
	Groundwater	Commercial/	Carcinogenic	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	5.0E-03		5.0E-04
		Industrial	Hazard	1.0E-03	5.0E-03	1.5E-02	1.5E-01	2.0E-01	5.0E-03	5.0E-03	7.2E-01	5.0E-04
Water Used for	Ingestion/	Residential	Carcinogenic	4.5E-02	6.0E-02				1.8E-01	4.6E-02		2.6E-02
Recreation [mg/l]	Dermal		Hazard	4.9E+00	5.3E-01	6.7E-06	1.1E+01	4.3E+00	7.8E-01	7.2E-02	2.8E+00	

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical

Medium	Exposure Pathway	Land Use	Type of Risk	Xylenes	Zinc
		Residential	Carcinogenic		
Surficial Soil	Ingestion/	Residential	Hazard	5.3E+04	2.1E+04
[mg/kg]	Inhalation	Commercial/	Carcinogenic		
		Industrial	Hazard	2.6E+05	3.1E+05
		Residential	Carcinogenic		
	Inhalation of	Residentia	Hazard	SAT	
	Vapors	Commercial/	Carcinogenic		
	-	Industrial	Hazard	SAT	
		Residential	Carcinogenic		
Subsurface Soil	Inhalation of Outdoor Air	Residentia	Hazard	SAT	
[mg/kg]	Vapors	Commercial/	Carcinogenic		
	-	Industrial	Hazard	SAT	
	Ingestion of Groundwater Impacted by	Residential	Carcinogenic	2.7E+01	
		Residentia	Hazard	2.7E+01	8.9E+02
		Commercial/	Carcinogenic	2.7E+01	
	Leachate	Industrial	Hazard	2.7E+01	5.8E+03
		Residential	Carcinogenic		
	Inhalation of	Residentia	Hazard	>SOL	
	Vapors	Commercial/	Carcinogenic		
		Industrial	Hazard	>SOL	
		Residential	Carcinogenic		
Groundwater	Inhalation of Outdoor Air	Residentia	Hazard	>SOL	
[mg/l]	Vapors	Commercial/	Carcinogenic		
		Industrial	Hazard	>SOL	
		Residential	Carcinogenic	1.8E+00	
	Ingestion of	Reoldentia	Hazard	1.8E+00	4.7E+00
	Groundwater	Commercial/	Carcinogenic	1.8E+00	
		Industrial	Hazard	1.8E+00	3.1E+01
Water Used for	Ingestion/	Residential	Carcinogenic		
Recreation [mg/l]	Dermal	Residential	Hazard	6.6E+01	1.2E+02

\*Italicized concentrations based on California MCLs

SAT = RBSL exceeds saturated soil concentration of chemical