May-19-99 10:38AM

sent By: The Auger Group Inc

ARTESIAN ENVIRONMENTAL

General Engineering Contracting License 622461: A, B, C-57, Haz., Asb. 229 Tewksbury Ave., Pt. Richmond, CA 94801 Telephone (510) 307-9943 • Facsimile (510) 232-2823 • e-mail: augerpro@aol.com

Phase I Environmental Assessments - Limited Access Drilling - Asbestos and Lead Inspections Remediations Tank Removals - Potentially Responsible Party Studies - Subsurface Investigations - EIRs

FACSIMILE TRANSMISSION

TO: Ms. Eva Chu	FAX: (56) 337-9335
DATE: 5/19/199	JOB #: 378-002-02
FROM: Pal Jones	TOTAL SHEETS: 7
MESSAGE: RE: RX	Maragener T Pan
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me at 10(su) 307-994	ellow. Pleace coll 13, est. 230 it you
have questions or com	

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ARTESIAN ENVIRONMENTAL

May 19, 1999



Ms. Eva Chu Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

Re: Risk Management Plan

Albany High School Site 603 Key Route Boulevard Albany, California

Artesian Project 378-002-02

Dear Ms. Chu:

Please find enclosed a copy of a Risk Management Plan for the referenced site. Artesian prepared this plan as a separate document from the (PSA). The enclosed plan was taken from pages 8 and 9 of a May 3, 1999 Preliminary Site Assessment (PSA) without significant changes to the content. However, to make this document simpler to use during construction field activities, a risk management matrix has been prepared which summarizes the Risk Management Plan in a tabular format.

If you have questions or comments, please contact me at (510) 307-9943, extension 230.

Sincerely,

Artesian Environmental

Paul E. Jones

Project Manager/ Geologist

enclosure

ARTESIAN ENVIRONMENTAL

May 19, 1999



Mr. Richard Vila Viia Construction Company 590 South 33rd Street Richmond, CA 94804

Re: Risk Management Plan

Albany Unified School District 603 Key Route Boulevard Albany, California StID # 4602

Dear Mr. Vila:

Artesian Environmental (Artesian) was retained by Vila Construction Company (Vila) on behalf of the Albany Unified School District (AUSD) to prepare a Risk Management Plan for 603 Key Route Boulevard (site) in Albany, California. The AUSD is the current owner of the site. This document contains information regarding the specific contaminants, their concentrations in site soil and groundwater, and situations where workers or occupants may be exposed to these media. This document provides a Risk Management Plan which shall be followed to reduce the risks of worker and site occupant exposure to acceptable levels in future situations or site conditions which may present increased potential for human exposure.

BACKGROUND

In October, 1998, Artesian removed one 2,000 gallon heating oil Underground Storage Tank (UST) and subsequently conducted exploration trenching to determine the extent of soil contamination. Analyzed soil samples collected from the vicinity of the UST excavation indicated that petroleum hydrocarbons were released into the subsurface. In response to the confirmed release of petroleum, the Alameda County Health Services Agency, Department of Environmental Health Services (ACDEH), required that the extent of petroleum impacted soil and groundwater be assessed. Artesian then conducted a Preliminary Site Assessment (PSA) to delineate the extent of petroleum in site soil and groundwater.

Results of the PSA indicated that human health risks associated with regulated petroleum constituents in site soils and groundwater are well within acceptable levels if left undisturbed. Concentrations of benzene, methyl tertiary butyl ether (MTBE), and polyaromatic hydrocarbons (PAH) are below laboratory detection limits in all soil and groundwater samples collected at the site. Concentrations of toluene, ethylbenzene, and xylenes were well below their respective Maximum Contaminant Levels (MCL's) for drinking water set by the California Department of Health Services as updated April 25, 1996. Concentrations of toluene, ethylbenzene, and xylenes in all soils analyzed were well below Tier 1 Risk Based Screening Levels (RBSL's) for direct contact and leaching to groundwater. The Tier 1 Lookup Table for Residential Land Use (prepared by The Michigan Department of Natural Resources in accordance with the ASTM Emergency Standard Guide for Risk-Based Corrective Action (RBCA), ES 38-94) was used in this evaluation.

placed below all building floor slabs as a precaution to prevent potentially present vapors from entering site structures.

Groundwater at the site is unsuitable for human consumption and may present an increased risk of human exposure to potentially contained petroleum if used for small scale irrigation or other uses. Onsite groundwater may be suitable for some uses in the future, however, onsite groundwater should not be utilized for any purpose without prior assessment of water quality.

This plan is summarized in a Risk Management Matrix (Matrix), contained in Attachment A. The Risk Management Matrix summarizes the Risk Management Plan in a quick-reference format for on-the-job use. The Matrix lists each type of environmental medium which may contain petroleum, contaminants and their maximum detected levels at the site, modes of human exposure to contaminants, and most importantly exposure mitigation measures to be taken to avoid exposure.

Copies of this Risk Management Plan shall be kept at the AUSD, at the ACDEH, onsite during any construction activities, and onsite during permanent accupancy. If you have any questions or comments regarding this site, please do not hesitate to contact me at (510) 307-9943, extension 230.

Sincerely, Artesian Environmental

Paul E. Jones Project Geologist

attachment

cc: Ms. Eva Chu, ACDEH

Attachment A

Risk Management Matrix

New Albany High School 603 Key Route Boulevard Albany, California StID 4602

Environmental		Max. Contaminant		Exposure Mitigation
Medium	Contaminant	Concentration	Mode of Exposure	Measures
Soil	ТРНд	74 mg/Kg	Direct Contact with	Avoid contact with
	TPHd	2,500 mg/Kg	Skin (dermal)	soils which exhibit
	TOG	14,000 mg/Kg		petroleum odors
	Benzene	Not Detected		Workers shall wear
	Toluene	67 μg/Kg		nitrile or equivalent.
	Ethylbenzene	37 μg/Kg		gloves when contact
	Xylenes	790 µg/Kg		with impacted soils
	MTBE	Not Detected		is unavoidable
	РАН	None Detected		Soils exhibiting petrol-
				eum odors or discolor-
				ation should be kept at
	J			the site between plastic
				sheeting
			Ingestion	Anyone working in the
				vicinity of impacted soil
				should not eat or drink
				within 50 feet of the soil
				Anyone working near
				impacted soil should
				thoroughly wash their
				hands before eating
Vapor	TPHg	Not Available	Inhalation	Workers should work
	TPHd			down-wind from any
	TOG	İ		impacted stockpiles if
	Benzene			possible
Toluene Ethylbenzene Xylenes MTBE PAH				Exposed soil should be
				paved before building
	l *			occupancy
				Workers should monitor
	PAH			breathing air for organic
				vapors and upgrade PPE
				if concentrations exceed
				15 parts per million
				A 10 mil vapor barrier
			+	should be placed below
			1	the new onsite building
		<u> </u>		to prevent vapors entering

Risk Management Matrix

New Albany High School 603 Key Route Boulevard Albany, California StID 4602

Environmental		Max. Contaminant		Exposure Mitigation
Medium	Contaminant	Concentration	Mode of Exposure	Measures
···			,	
Groundwater	TPHg	100 μg/L	Direct Contact with	Avoid contact with
	TPHd	920 μg/L	Skin (dermal)	site groundwater
	TOG	Not Detected		Workers shall wear
	Benzene	Not Detected		nitrile or equivalent
	Toluene	1.1 μg/L		gloves when contact
	Ethylbenzene	67 μg/L		with impacted ground-
	Xylenes	6.3 μg/L		water is unavoidable
	MTBE	Not Detected		Anyone working in the
	PAH None Dete	None Detected		vicinity of impacted
			groundwater should	
			not eat or drink near	
				equipment exposed to
				site groundwater
				Anyone working near
				impacted groundwater
				should wear splash
				proof clothing and
				rubber boots
			Ingestion	Site groundwater shall
				not be used for any pur-
				pose without first invest
				igating water quality
				Anyone working
				near site groundwater
				shall thoroughly wash
				their hands before eating

Notes			**************************************
TPHg	Total Petroleum Hydrocarbons as gasoline	PAH	Polyaromatic Hydrocarbons
TPHd	Total Petroleum Hydrocarbons as diesel	MTBE	Methyl Tertiary Butyl Ether
TOG	Total Oil and Grease	mg/Kg	milligrams per Kilogram (ppm)
ppb	parts per billion	μg/Kg	micrograms per Kilogram (ppb)
ppm	parts per million	μg/L	micrograms per Liter (ppb)