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Consulting • Engineering • Remediation

June 10, 1997 Project No. 8700-742 1420 Harbor Bay Parkway Suite 160 Alameda, CA 94502 (510) 748-6700 FAX (510) 748-6799

Housing Authority of the City of Alameda 701 Atlantic Avenue Alameda, California 95401

Attention: Ms. Eileen Duffy

Subject: Report of Monitoring Well Destruction and

Removal of Non-Hazardous Waste Material 1916 Webster Street, Alameda, California

Dear Ms. Duffy:

ENSR (formerly Fugro West Geo-Environmental, Inc.) has prepared this letter to document the destruction of six groundwater monitoring wells and removal of containerized, non-hazardous soil and groundwater at the Housing Authority of the City of Alameda (AHA) property, located at 1916 Webster Street in Alameda, California (Figure 1). The destruction of the groundwater monitoring wells was required by the Alameda County Department of Environmental Health (ACHD) and the Regional Water Quality Control Board, San Francisco Region (RWQCB) to obtain site closure. This letter presents a summary of the project history, a description of monitoring well destruction procedures and provides documentation for the disposal of non-hazardous groundwater and soil materials.

Project Background

A leaking underground storage tank, determined to have impacted the subsurface with gasoline, was removed from the subject property in July 1986. Six monitoring wells were installed as part of soil and groundwater assessment and remediation activities conducted at the subject property since September 1986 (Figure 2). The assessment and remediation activities included soil and groundwater sampling, excavation of impacted soil and quarterly groundwater monitoring. Monitoring wells MW-1, MW-2 and MW-3 were installed by others in September 1986 and MW-4, MW-5 and MW-6 were installed by Fugro West, Inc. in October, 1994. Fugro West, Inc. conducted quarterly and annual groundwater monitoring and sampling at the subject property until September, 1996. Following the removal of impacted soil and completion of a Risked-Based Corrective Action evaluation, site closure was recommended by the ACHD and RWQCB in March 1997.

Monitoring Well Type and Construction

When installed, the monitoring wells were completed in 10-inch diameter soil borings of 2-inch diameter (MW-1, MW-2 and MW-3) and 4-inch diameter (MW-4, MW-5 and MW-6) polyvinyl chloride (PVC) casing and screen to a depth of approximately 14.5 feet below ground surface (bgs).



Well screens extended from the bottom of the well borings to approximately 4 feet bgs. The sand filter packs extended from 1 foot above the top of the well screens to the bottom of the well boring. Annular well seals were approximately 4 feet thick and consisted of a 1 foot thick bentonite transition seal and cement grout. At the surface, each well was completed with a flush-mounted traffic-rated well box set in concrete.

Monitoring well MW-4 was installed within the area previously excavated to remove impacted soils Initially, this monitoring well was also intended to serve as a groundwater extraction well. Monitoring MW-4 was to be placed within loose pea gravel backfill material, therefore, the uppermost 5.5 feet of the well was installed within a 10-inch diameter steel conductor casing. The remaining 8.5 feet of the well boring was drilled into native material, through the conductor casing.

Monitoring Well Destruction Procedures

The monitoring well destruction was completed on May 12 and May 13, 1997 under permit No. 97288 issued by the Alameda County Flood Control and Water Conservation District Zone 7 (attached). ENSR contracted Exploration GeoServices, Inc. of San Jose, California (C-57 license number 484288) to complete the well destruction activities.

The PVC casing in monitoring wells MW-1 through MW-3, MW-5 and MW-6 were removed by advancing a hollow stem auger the depth of the monitoring well boring and extracting the casing and screen from the center of the auger. Following the removal of the casing and screen, the well boring was drilled out to total depth, to remove residual seal material and filter sand. Cement grout was then tremied from the bottom of the well boring to approximately 2 feet bgs. Concrete was placed above the grout to surface grade.

ENSR recommended that the steel conductor casing at monitoring well MW-4 remain in place. If the conductor casing was removed, loose pea gravel would likely have collapsed and backfilled the portion of the well boring below 5.5 feet bgs. If this occurred, it would have been difficult to drill out the backfilled pea gravel and grouting the well boring to depth may not have been possible. Based on this rationale, MW-4 was destroyed by removing the PVC casing and placing cement grout, using a tremie pipe from the bottom of the well boring to approximately 2 feet bgs. Concrete was placed above the grout to surface grade.

Disposal of Non-Hazardous Soil and Groundwater

Non-hazardous waste material removed during the well destruction activities and non-hazardous purged groundwater from past quarterly groundwater monitoring events were contained in 55-gallon drums and stored at the subject property. Eight drums of water, two of soil, and one of trash were removed by Integrated Waste Management, Inc. (IWM) of Milpitas, California on May 28, 1997. The eight drums of purge water, or 360 gallons, was accepted by the McKittrick WTS/IWM, Inc disposal facility in McKittrick, California, on May 28, 1997. A copy of the signed transport form (transport form number MK052897) is attached to this letter.

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Generally, IWM will accumulate transportable quantities of soil material for disposal before delivery to the McKittrick facility. Therefore, receipt of a signed transport form will require approximately 3 additional weeks. However, a copy of the non-hazardous waste transport form, not yet been signed by the McKittrick, is attached. We will forward the signed copy as soon as it is received.

It has been a pleasure assisting you and the AHA throughout the course of this project. If there is any way we can assist you in the future, please contact us.

Sincerely,

ENSR Consulting and Engineering

Robyn K. Simonsen, E.I.T.

Staff Engineer

Peter B. Hudson Project Manager

cc: Wyman Hong, Alameda County Flood Control and Water Conservation District, Zone 7 Eva Chu, Alameda Health Care Services

Attachments: Site Location Map, Figure 1

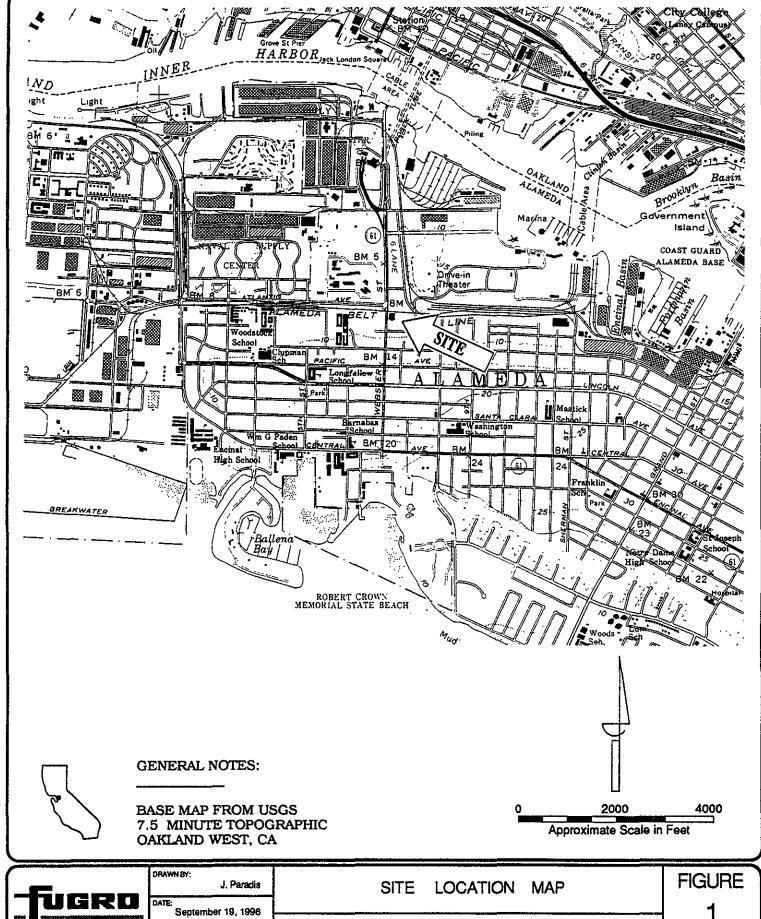
Site and Project Area Map, Figure 2

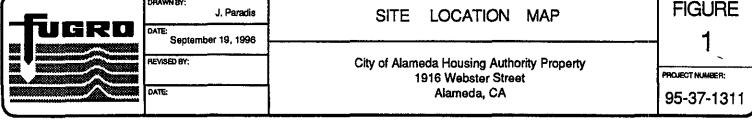
Drilling Permit # 97288 for Destruction of Monitoring Wells 2S/4W 11C80 to

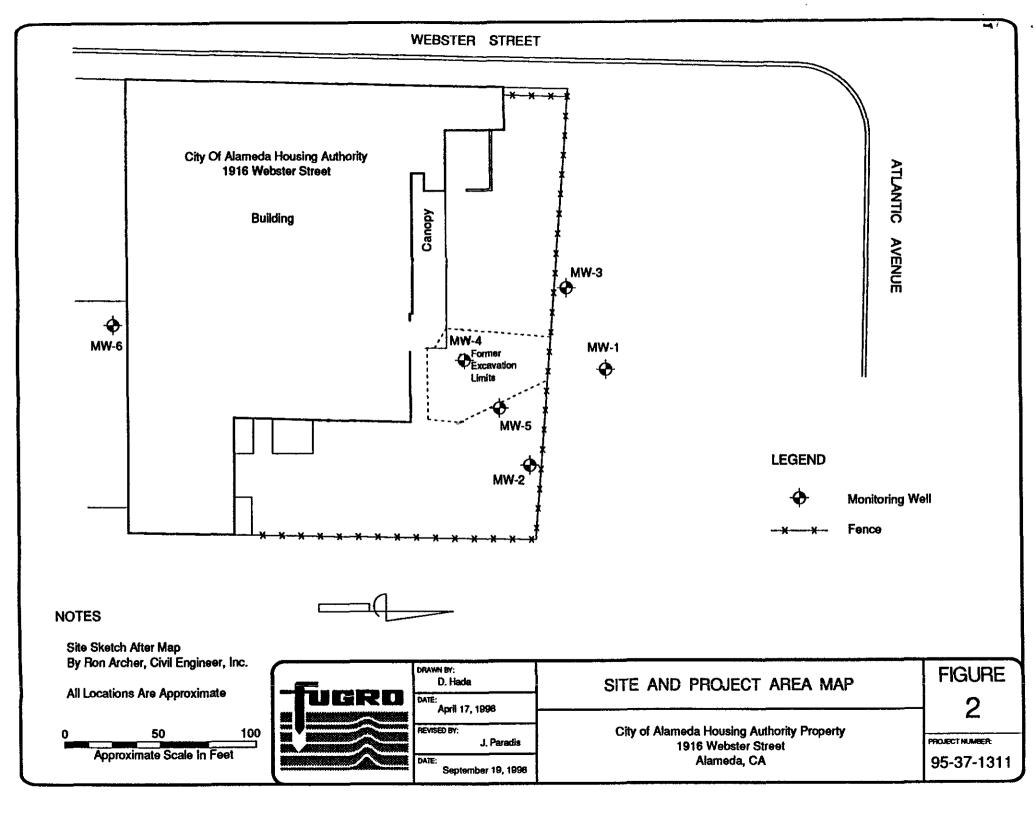
11C85 at 1916 Webster Street in Alameda, California Non Hazardous Water Transport Form # MK052897

McKittrick Waste Treatment Site Generator's Waste Profile

Non-Hazardous Waste Transport Form - (unsigned)









APPLICANT'S

SIGNATURE

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE, PLEASANTON, CALIFORNIA 94588-5127 PHONE (510) 484-2600 X235 FAX (510) 462-3914

FOR OFFICE USE

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE			
LOCATION OF PROJECT 1916 WEBSTER STREET ALAMEDA CALIFORNIR. SOUTHEAST OPNER ATLANTIC & WEBSTER STREETS California Coordinates Source * ft. Accuracy ± ft.	PERMIT NUMBER 97288 WELL NUMBER 2S/4W 11C80 to 11C85 APN 073 0426-014-01			
CCNft. CCEft.	PERMIT CONDITIONS			
* SER ATTACHED FIG. 1	Circled Permit Requirements Apply			
Name Housing Authority of the City of Alameda Address 701 ATLANTIC AVENUE Phone 510 522 8422 City Alameda, CA. Zip 94501 APPLICANT Name ENSP (consultant to Housing Authority) Yo Peter Hudson Fax 510 748 6799 Address 1420 Harror Bay Pruny 160Phone 510 748 6700 City Alameda CA 2450 Zip 94502	 A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval 			
TYPE OF PROJECT Well Construction Geotechnical Investigation Cathodic Protection General General Water Supply Gontamination Monitoring Well Destruction	date. B. WATER SUPPLY WELLS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a			
PROPOSED WATER SUPPLY WELL USE New Domestic	lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.			
DRILLING METHOD: Mud Rotary	Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In			
WELL PROJECTS - WELL DESTRUCTION - 6 WELLS. Drill Hole Diameter B-10 in. Maximum Casing Diameter 2 4 in. Depth 15 ft. Surface Seal Depth 5 ft. Number 6	areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. E. CATHODIC. Fill hole above anode zone with concrete placed by tremie. F. WELL DESTRUCTION. See attached. SPECIAL CONDITIONS			
GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depthft.				
ESTIMATED STARTING DATE NA AV 12 , 1997 ESTIMATED COMPLETION DATE NA AV 13 , 1997	Approved Wyman Home Date 7 May 97			
hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 78-68.	Wyman Hong			

Date 5/5/97

101996

ZONE 7 WATER RESOURCES ENGINEERING DRILLING ORDINANCE

CITY OF ALAMEDA 1916 WEBSTER STREET ALAMEDA WELLS 2S/4W 11C80 TO 11C85 PERMIT 97288

Destruction Requirements:

- 1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
- 2. Sound the well as deeply as practicable and record for your report.
- 3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
- 4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Peter Hudson of ENSR meet or exceed the Zone 7 minimum requirements.

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TF NUMBER: MK052897

NON-HAZARDOUS WATER TRANSPORT FORM

	GENERATOR IN	FORMATION							
	NAME:	Alameda Housing Aut	hority						
	ADDRESS:	701 Atlantic Ave.					<u></u>		
	CITY.STATE.ZIP:	Alameda, CA 94501			I	HONE #:	510-522-8422		
	DESCRIPTION OF WATER: MONITORING WELL PURGE/ DECON WATER								
	GENERATOR/AUTH		AZAHDOUS WAS LY DESCRISSO: TO APPLICABLE	ITE AS DESCRISED IN 2 , CLASSIFIED AND FACE E REGULATIONS.	2 CCR ANTICLE II ON	ANY OTHER AP	MEABLE FOR MRY 23.	1997	
ا	SITE INFORMAT	MON							
,	Site Operator			Address			-	Gals	
	Alameda Housing Aut	hority	<u> </u>	1916 Webster	St. Alameda, (CA		360	
•					7	OTAL GA	LLONS:	360	
	TRANSPORTER								
	NAMB:	IWM, Inc.							
	ADDRESS:	950 Ames Avenue				PHONE #:	(408) 942-895	5	
	CITY, STATE, ZIP:	Milpitas. CA 95035							
			Lee	Heckman			ė	5/28/97	
	TRUCK ID #:		(Typed or	printed full nam	e & signature)			(Date)	
	RECEIVING FA	CILITY							
	32 4 5 4 C	McKittrick WTS/ [W]	M. lnc.						
	NAME:	56533 Hwy 58W	1						
	ADDRESS: CITY,STATE,ZIP:	McKittrick, CA 9325	1			PHONE #:	(805)762-736	6	
	Ost 1941/12 Limit		./	SO A		-		1.062	
	APPROVAL #:			THE	<u> </u>			(Date)	
			(Typed or	printed full nam	e er ziânsume)			*	

ID:

Approval No.:

McKittrick Waste Treatment Site Generator's Waste Profile

IMPORTANT: This form must be completed by a Representative of the Waste Generator. The information on this form must be typed or legibly printed in ink and signed by an Authorized Agent of the Generator. Completed form bearing original signature must be provided to MWTS PRIOR TO DISPOSAL.

1.0 Generator Information	
1.1 Generator Name: ALAMEDA HOUSING AUTHORITY 1.6 Local Registration No.:	
1.2 Generating Facility Name: ALAMEDA HOUSING AUTHORITY 1.7 Generator's EPA ID No.:	
1.3 Facility Address: 1916 WEBSTER ST City: ALAMEDA State: CA Zip: 1.8 Facility Phone:	
1.4 Company Representative: LILLEN DUPFY 1.9 After Hours Phone: PROTECT ADMINISTRATOR ()	· •
1.5 Emergency Contact: PETER HUDSON 1.10 Emergency Phone: - Title: Environmental Consultant (510) 748-6700	
General Site Activity: PARKING NEHICLE STORAGE (FORMER UST SITE)	
2.0 Waste Description	
2.1 General Waste Description: SOIL CUTTINGS 2.2 Process Generating Waste: MW DESTRUCTION	
2.3 Is this Waste "Hazardous Waste" as defined by Federal, State or Local Regulations: Yes No No Has this waste ever been "Handled, or "Disposed" of as a hazardous material waste disposed of via a "uniform hazardous waste manificst".	
2.6 Waste Generation Rate: Tons 1.0 Cubic Yards Other: Per: Day Week Year X Other 1.7 Waste will be transproted in: Roll Off Boxes Drums (Type/Size): X Dump Trucks Other:	
3.0 Waste Properties at Room Temperature	=
.1 Physical State X Solid Semi-Solid Brown Powder Liquid	
Powder Liquid 3.4 Color(s): BROWN Combination:	
Combination: .2 Odor: X None Mild Strong 3.5 Percent Solid: 99-100 % 3.6 Flash Point F°: >14-0	

McKittrick Waste Treatment Site Non Hazardous Waste Water Characterization Form

	Site Address (if different)				nt)	
Nume: AL	AMEDA HOUSING AUTHORITY	Name:	ALAME!	DA HOUSIN	6 AV	THORITY
Nutherized Ell	EEN DUFFY	Contuer	PETER	HUDSON/	ROBYN	SIMONSEN
Street: 70	ATLANTIC AVE.	Streets	1420 HAR	BOR BAY	PKWY	# 16D
City/State/Zip: AL	AMEDA, CA 94501	City, State Zip:	ALAMEI	DA, CA		
	0-521-8421	Phone	510-74A	-6700		,
Fax: 51	0-522-7848		510-748	3-6799	• • • • • • • • • • • • • • • • • • • •	
				· · · · · · · · · · · · · · · · · · ·		-
X	ig Wastewater (check all that apply Monitoring well sampling Monitoring well development/augur to Other (describe):	insate		Excav Pump		watering
Fuencated Course	of Contaminants		<u> </u>			
	of Contaminants: the site contain one or more underg	round				
	rage tanks (UST's) for fuel?				Yes 🗷	No 🗔
	suspected source of contamination?				Yes 🗷	No □
Arc you awa	ire of any other possible sources or ca	uses of				
	tewater contamination at the site?			•	Yes 🗆	No 🙉
ır	Yes", please describe:		=		· · · · · · · · · · · · · · · · · · ·	^
	***************************************					***
Wastewater Char				•	-	No. 100
	s than 2 or greater than 12.5? oint less than 100°F (38°C)?				Yes D	No 🗷
•	reason to suspect the presence of reac	rito maniska m	· Audikalos"		Yes □ Yes □	No ⊠ No ⊠
	on to suspect the presence of reacon to suspect that the wastewater wor		Sufffacs.		162 1	190 123
	re toxic in a fish bio-assay test?			•	Yes □	No 🖾
•	rate-phase liquid present in the waste	Maler'i			res 🗆	No 🗷
	et any hydrocarbon odor from the wa				res 🗆	No Se
	tewater tested for hydrocarbons?				r'es 25	No 🗆
	Yes", please attach copies of the test	results.				
	lewater tested for anything other that		i	•	i'es 🗆	No 🗹
	Yes", please attach copies of the test i					
plea	se describe the tests:					
	.					
is there any o	other analytical test information (eg.,	soil samples) fo	or this suc"		es 12 7	No 🗆
	soil vapor monitoring data for this sit		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		es 🗆	No Z
10 111010 211,		- .		•		
The information a	nd representations presented above	e are true and	correct to t	he best of m	y knowle	edge.
// VK 1.	le PETERB. Hose	1	,	M. =		
Milward Daniel	tive of Responsible Party (sign and print name	~	Dala	TAY C	1. 1.99	
	ent on residenceme está (sign sua buin usu	rs f	nare.	· (M.	R (1039	3 © 1995)
Con BI	AM 50A				*	-
/JANKING	AMBOR AUTHORITY					

ID: IWM, INC.

P.04

TF NUMBER:

NON-HAZARDOUS WASTE TRANSPORT FORM

_	GENERATOR I	NFORMATIO	N				
	NAME:	Alameda Housing Authority					
	ADDRESS:	701 Atlantic Ave.					
	CITY,STATE,ZIP:	Alameda, CA 94	4501	PHON	B #: 510-522-842:	2	
					(. (
	HESCRIPTION OF SO.	IL: SUIL GENEICKI HIJ DUK	ing a drulling, excavation or	SITE INVESTIGATION (BORING) -VI-NO)	AS AGENT		
	THE CENERATOR CERTIFIES TO	NAT THE COL	+ PETERB. H.	MARINE.	FOR	# /a p /p -	
	AS DESCRIBED IS NON-HAZARD	i	Print Name	Signatu	TE HOUSING AUTHORITY	5/23/97 Date	
				•	HUTHURIT		
	SITE INFORMA	TION					
	Responsible Party	IWM JOB#		ADDRESS		Cu Yards	
		1				Cu Tatus	
1	Alameda Housing		1916 Webster St. A	Alameda, CA			
2							
) 1				· · · · · · · · · · · · · · · · · · ·			
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				TOTAL	CU. YARDS:		
-	TRANSPORTER	INFORMATIO	ON	Bill to IWM, Inc. Acct	#:		
	NAME:	IWM, Inc.					
	ADDRESS:	950 Ames Avenu	e				
	CITY,STATE,ZIP:	Milpitas, CA 95	035	PHONE	#: <u>408-942-8955</u>		
	TRUCK ID #:						
			Print Name	Signature		Date	
	TSD FACILITY I	NFORMATIO	N				
	NAME:	McKittrick Waste	Treatment Site				
	ADDRESS:	56533 Highway 58W					
	CITY,STATE,ZIP:	McKittrick, CA	3251	PHONE	#: 805-762-7366		
	RELEASE #:						
			Print Name	Signature		Date	