aqua science engineers inc.

8/15/89

August 14, 1989

Mr. Scott Seery
Hazardous Materials Specialist
Alameda County Health Care Division
80 Swan Way, Rm 200
Oakland, CA 94621

RE: REVISED PLAN OF CORRECTION FOR WASTE OIL TANK AT SHELL SERVICE STATION, 3496 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CA

Dear Mr. Seery:

On behalf of Mr. Ted Simas of Xtra Oil Company I am providing you with the a revised Plan of Correction for the former waste oil tank located at the above address in response to our agreement to follow the foremat of the Regional Water Quality Control Board, Workplan for Initial Subsurface Investigation - Appendix A.

I. Introduction:

A 550-gallon waste oil tank was removed from the above property in 1989. Soil samples were not taken at the time of removal and, subsequently, the owner was contacted by your office requiring that a Plan of Correction be submitted for the proposed work. The following is the proposed plan to address agency concerns.

The subject waste oil tank was removed on Novemvber 11, 1988 and disposed of under a hazardous waste manifest, Appendix A. The tank was empty of all contents at the time of removal. An unauthorized release report was recently submitted and a copy is contained in Appendix B in responce to the soil sample results obtained by ASE on April 24, 1989, Appendix C.

A. Site Location. The site is located at 3496 Castro Valley Boulevard, Castro Valley, California.

B. Background. We were contacted by the owner of the site, Mr. Ted Simas, in early April 1989 and asked to collect a soil samples, per agency requirements, from beneath a 550-gallon waste oil tank located at the above address. On April 24, 1989 I contacted Mr. Scott Seery of Alameda County Health Services Department to inform him of the projected soil sample collection. Mr. Seery indicated that a Plan of Correction should be prepared prior to any activity at the site and submitted for his review.

D. Site History. The site was purchased in 1983 from ARCO Petroleum and since that time has been a retail fuel station for transportation fuels operating under the Shell Oil.

The underground storage tanks and lines are constructed of single-walled carbon steel. There are four operating tanks; 1-10,000 diesel, 1-10,000 gallon leaded

Aqua Science Engineers Inc., P.O. Box 585, San Ramon, CA 94583 · 415-820-9391

gasoline, and 2-10,000 gallon unleaded gasoline, Figure 1. No other tanks exist at the site. The site is served by four standard serivce islands with four dispensors per island. Tank testing records indicate that the subject waste oil tank was not tested by the present owner and it is not known if the previous owner performed the tests. Tank testing results for the remaining tanks indicates that the tanks are within acceptable standads, Appendix D.

II. Site Description

A. The site is located in a commercial/residentail area of Castro Valley, California. The site is a retail Shell Service Station located at the Southwest corner of Castro Valley Boulevard and Redwood Road in Castro Valley, California (Figure 1). The station retails fuel only and does not have garage facilities. Currently, the station has four 10,000-gallon underground fuel tanks servicing the facility. The subject waste oil tank was used by the previous owner and was not in use under the present owner since the station changed ownership in 1983.

B. Soil Sampling Results.

On May 5, 1989 a single soil sample was taken in native soil from beneath the former 550-gallon waste oil tank. The sample was taken from a backhoe bucket by driving a 2-inch by 4-inch brass tube into the soil using a wooden mallet. The sample was removed from the soil, capped with Teflon tape and plastic end caps and placed on ice for delivery to the laboratory. The sample depth was approximately 11 feet below ground surface; groundwater was not encountered. The sample was analyzed for TPH-Heavy (EPA 3550/8015), Total Oil and Grease (EPA 9071), and volitle organics (EPA 8240 GC/MS). Detectabale constituents only are shown in Table I; all other constituents were below the level of detection.

III. Plan for Determining Extent of Soil and Groundwater Contamination on Site.

A. Based on the results of the soil sample taken from the former waste oil tank, we intent to further evaluate the impact of the release of contaminants from the waste oil tank on soil and groundwater in the vicinity of the site. ASE intends to complete the work in three tasks.

Task 1 Re-excavate soil from the waste oil tank and stockpile the soil on visqueen. We intend to excavate as much of the contaminated soil as possible. Soil samples will be taken from the excavated pit to confirm if the contaminated soil was removed. Soil samples will be collected from the stockpiled soil and the results will determine the suitability of disposal at a Class I or Class II site. No on site treatment is proposed.

Task 2 In accordance with agency guidelines, we intent to install and sample one groundwater monitoring well within 10 feet of the waste oil tank. According to the Alameda County Water District - Zone 7, the seasonal high for groundwater in the vicinity is 40 to 45 feet. Should groundwater not be encountered, the well will be completed into a clay aquitard 5-feet in thickness. Based on the results of the samples taken from the well, additional wells may be proposed.

Task 3 ASE will prepare a written report summarizing the work performed

after completion of all field work and once analytical results are known. The report will include recommendations for further work and well sampling.

Task 1 - Re-excavate Tank Pit.

The excavation will take place in the area of the former waste oil tank. We proposed to excavate the pit and stockpile the removed soil on-site. Soil samples will be taken from areas from within the pit and from the stockpiled soil. At this time it is not known the quantity of soil to be removed, however every attempt will be made to remove all contaminated soil. Once the excavation is complete and soil sample results are known, the pit will be backfilled with imported backfill to ground surface.

We do not propose on-site treatment due to the limited size areaavallable for current soil remediation techniques. The contalminated soil will be hauled to either a Class I or Class II disposal site within California, pending sample results.

Task 2 - Install a Groundwater Monitoring Well.

The hydrogeologic information in the site area is limited, however, groundwater is expected to be found at 40 to 45 feet.

The well will be installed within 10 feet of the waste oil tank and will be constructed of 4-inch diameter PVC casing with a locking christy box street cover. The proposed well will be installed to 15 feet into groundwater or terminated in an aquitard of at least 5 feet in thickness.

In the event that groundwater is not encountered either before a 5-foot clay aquitard is encountered or a depth of 45 feet is reached, the well will be completed to that depth. If groundwater is found, than two subsequent 2-inch diameter perimeter wells will be installed (proposed location, Figure 1).

Groundwater well MW-1 will be used to monitor groundwater on a monthly basis for the first quarter than quarterly for three quarters (per requirements of Alameda County Water District). Groundwater wells MW-2 and MW-3 will provide depth to groundwater measurements and directin of groundwater flow will be determined from the three wells.

The actual well construction of all wells will follow Alameda County Water District requirements. A typical well installation diagram is shown in Figure 2. In addition to following the requirements of Alameda County Water District we intent to design a gravel pack and well casing slot size based on the formation material encountered. Soil samples will be collected beginning at the maxlum depth of the excavation and then at 5-foot intervals to groundwater.

Following installation each well will be developed, sampled and analyzed for the waste oil protocal (LUFT). Drill cuttings will either be stockpiled with the excavated soil material or placed into hazardous waste drums (17-H). The extracted groundwater from well development will be placed in seperate 17-H drums. All drums will be manifested as necessary. The completed wells will be measured from top of casing to a bench mark with elevation above mean sea level (MSL) to the nearest 0.01 feet.

Task 3 - Provide a Written Report.

The report will describe the excavation activities, sample results, and will provide recommendations for further actions. Prior to installing the well(s) the report will be submitted for agency review.

We expect to begin the excavation upon approval from the Alameda County Health Department and complete the work contained above by September 25, 1989.

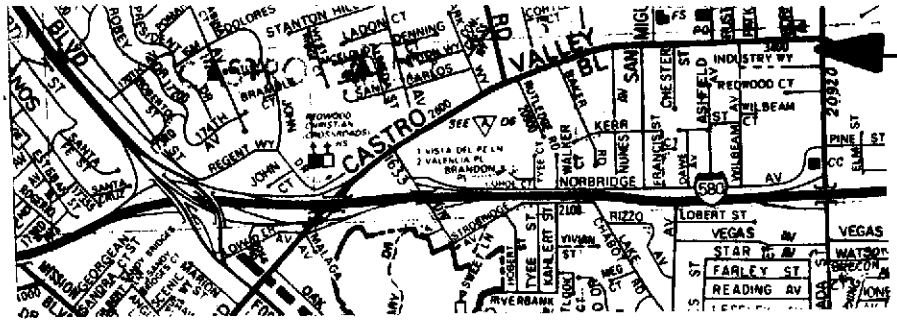
We look forward to your comments at your earliest convenience.

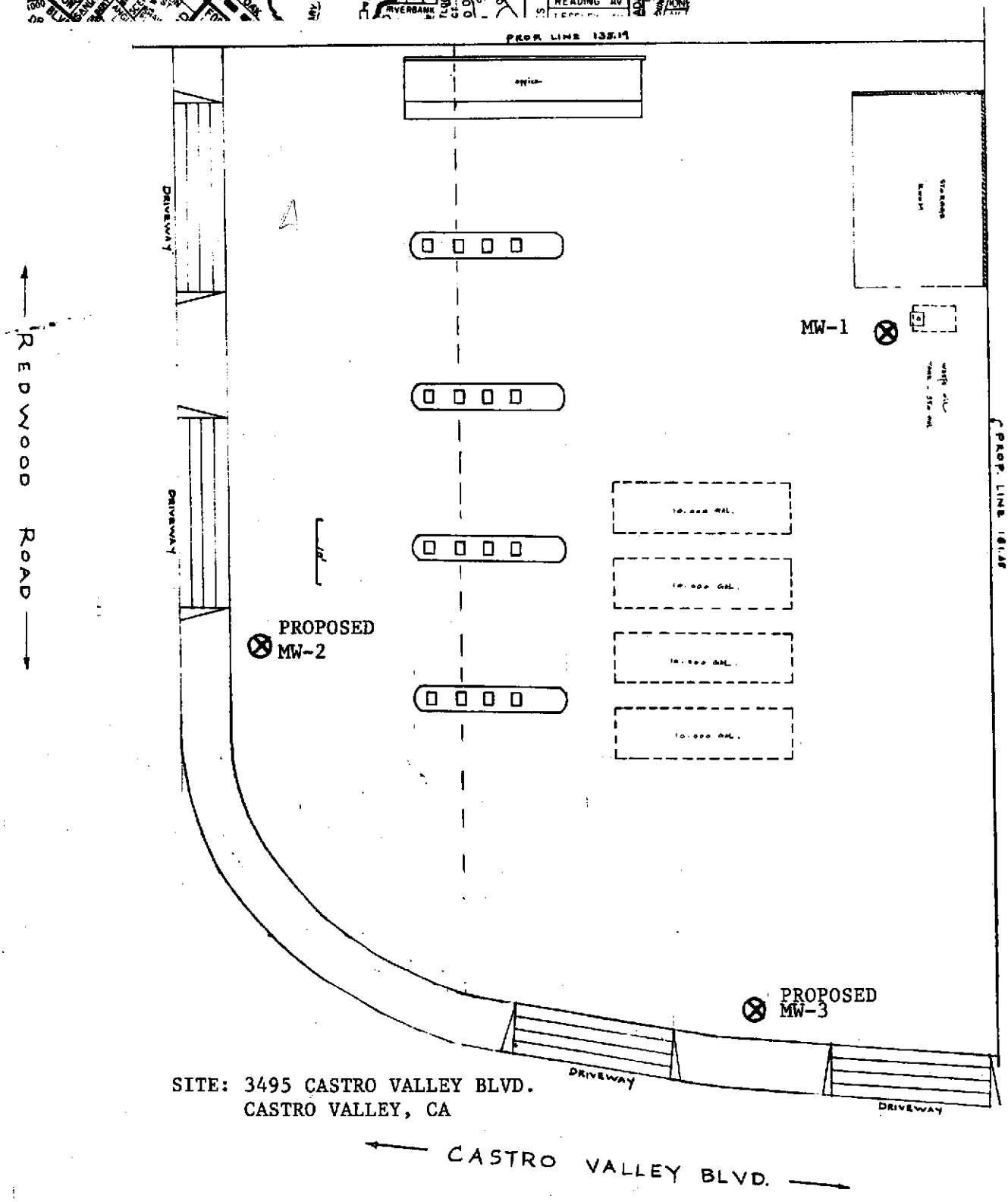
Respectfully submitted,

Terrance E. Carter
AQUA SCIENCE ENGINEERS, INC.

FIGURE 1 - Site Plan - 3496 Castro Valley Boulevard, Castro Valley, California.

FIGURE 2 - Typical Well Construction Diagram





SITE: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

FIGURE 1.

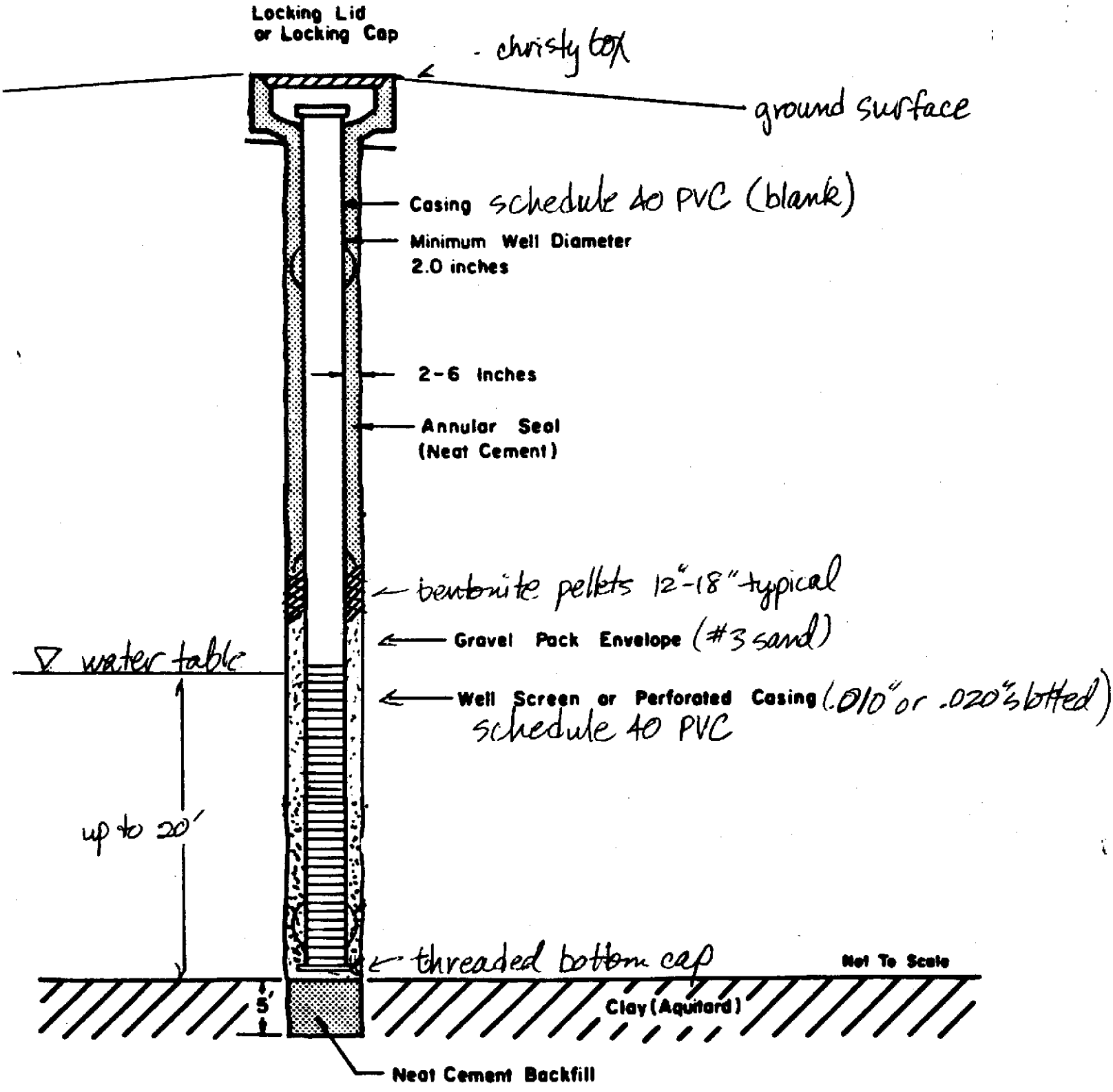


FIGURE 2.

AQUA SCIENCE ENGINEERS

TYPICAL MONITORING FACILITY

APPENDIX A:
HAZARDOUS WASTE MANIFEST DOCUMENTS

Form Approved OMB No. 2050-0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CACA0011279099 — Manifest Document No. 87891825
2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
XTRA OIL CO. 2200 DURANT AVE. BERKELEY 94704

4. Generator's Phone (415) 548-0330

5. Transporter 1 Company Name: H&H SHIP SERVICE CO. INC. — 6. US EPA ID Number: CAD000477168

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
H&H SHIP SERVICE CO. INC.
220 CHINA BASIN STREET
SAN FRANCISCO CA 94107
CAD000477168

10. US EPA ID Number

A. State Manifest Document Number: 87891825
B. State Generator's ID
C. State Transporter's ID: 402465
D. Transporter's Phone: (415) 543-0836
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID: 38-001-98
H. Facility's Phone: (415) 543-0906

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Waste No.
a. ~~RQ~~ WASTE, METAL, WASTE OIL N.O.S. CALIFORNIA REGULATED WASTE	0011	TP	11010	G K	State 512 / EPA/Other N/A
b.					State 512 / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
1,000 GALLON underground waste oil TANK W/APPROX 500 GALLONS SLUDGE REMAINING.

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE GEAR AS REQUIRED.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: CAROL SIMAS — Signature — Month Day Year: 11 10 88

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: SIDNEY W FOSTER — Signature — Month Day Year: 11 10 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Claudia Valley — Signature — Month Day Year: 11 10 88

GENERATOR

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95802

INSTRUCTIONS ON THE BACK

APPENDIX B:
UNAUTHORIZED RELEASE FORM

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☐ NO

STATE TANK ID #:

REPORT DATE: 0M 7M 2D 4D 8Y 9Y

LOCAL CASE #:

REGIONAL BOARD CASE #:

US EPA ID #: CAC000127909

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: TERRANCE CARTER

PHONE: (415) 820-9391

SIGNATURE:

REPRESENTING ☐ LOCAL AGENCY ☐ OTHER ☒ OWNER/OPERATOR ☐ REGIONAL BOARD

COMPANY OR AGENCY NAME: AQUA SCIENCE ENGINEERS, INC.

ADDRESS: 2500 Old Crow Canyon Rd., #121 (STREET), San Ramon (CITY), CA (STATE) 94583 (ZIP)

RESPONSIBLE PARTY

NAME: Xtra Oil ☐ UNKNOWN

CONTACT PERSON: Ted Simas

PHONE: (415) 548-0330

ADDRESS: 2200 Duran~~t~~ Avenue (STREET), Berkeley (CITY), CA (STATE) 94704 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Xtra Oil Shell Oil

OPERATOR: Ted Simas

PHONE: (415) 548-0330

ADDRESS: 3496 Castro Valley Blvd. (STREET), Castro Valley (CITY), CA, Alameda (COUNTY) (ZIP)

CROSS STREET: Redwood

TYPE OF AREA ☒ COMMERCIAL ☐ INDUSTRIAL ☒ RESIDENTIAL ☐ RURAL ☐ OTHER

TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ UNKNOWN ☐ OTHER

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME	CONTACT PERSON	PHONE
Alameda County Health	Scott Seery	(415) 271-4320
REGIONAL BOARD: SFRWQCB	Leslie Furgeson	(415) 464-1255
TSCD: Underground tank program		( )

SUBSTANCE(S) INVOLVED

CAS # (ATTACH EXTRA SHEET IF NEEDED)	NAME	QUANTITY LOST (GALLONS)
(1)		☐ UNKNOWN
(2)		☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 1M 1M 0D 7D 8Y 8Y

HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ ROUTINE MONITORING ☒ TANK REMOVAL ☐ NUISANCE CONDITIONS ☐ OTHER:

DATE DISCHARGE BEGAN: M M D D Y Y ☐ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURES ☐ OTHER

SOURCE/CAUSE

SOURCE(S) OF DISCHARGE
☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER (SPECIFY)

TANKS ONLY/CAPACITY: GAL
AGE: YRS. ☒ UNKNOWN
MATERIAL ☐ STEEL ☐ FIBERGLASS ☐ OTHER

CAUSE(S)
☐ OVERFILL ☒ CORROSION ☐ RUPTURE/FAILURE ☐ SPILL ☐ UNKNOWN ☐ OTHER

RESOURCES AFFECTED/AT RISK

RESOURCES AFFECTED	YES	NO	THREATENED	UNKNOWN
AIR (VAPOR)	☐	☒	☐	☐
SOIL (VADOSE ZONE)	☐	☐	☐	☒
GROUNDWATER	☐	☐	☐	☒
SURFACE WATER OR STORM DRAIN	☐	☐	☐	☒
BUILDING OR UTILITY VAULT	☐	☐	☐	☐
OTHER (SPECIFY)	☐	☐	☐	☐

GROUNDWATER BASIN NAME: SF Bay ☐ UNKNOWN

WATER SUPPLIES AFFECTED	YES	NO	THREATENED	UNKNOWN	# OF WELLS
PUBLIC DRINKING WATER	☐	☐	☐	☒	
PRIVATE DRINKING WATER	☐	☐	☐	☒	
INDUSTRIAL	☐	☐	☐	☒	
AGRICULTURAL	☐	☐	☐	☒	
OTHER (SPECIFY)	☐	☐	☐	☒	

COMMENTS

COMMENTS:

COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

HSC 05 (10/88)

APPENDIX C:
LABORATORY DATA AND CHAIN-OF-CUSTODY

17

000310

P.O. Box 535, San Ramon, CA 94583-0535

aqua science engineers inc.

(415) 820-9391

Project Name: Simas Oil Site: Hayward Date: Laboratory:

Sample ID	Sample/Container Type	Analyze/Hold	Analyze For:	Method - Detection Limit	Notes/Remarks
T1		A	Waste Oil Total Petroleum Product		72341
					10/2

S = Soil W = Water O = Other

G = Glass BT = Brass Tube P = Plastic V = Vial O = Other

Chain of Custody

1. Sampled by:
2. Courier: Donald Tokaraski

Pace 1230 PM 5/8/89

3. Received by Lab:

Date: Time:

4. Received in Office: Date:

- ☐ = Collate all samples for single analysis.
- ☐ = Collate and analyze two top samples and if clean, do not analyze other sample.
- ☐ = Call ASE for instructions.
- ☐ = See attached protocol.

APPENDIX D
TANK TESTING RESULTS

HUNTER ENVIRONMENTAL SERVICES, INC.
18350 MT. LANGLEY STREET, SUITE 101
FOUNTAIN VALLEY, CA 92708
800-247-9014 80 247-2186

FINAL TEST RESULTS
TEST DATE: 8/12/88

LOCATION/IDENTIFICATION NO.:

CUSTOMER: SHELL
ADDRESS: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE GALLONS	TANK SIZE DIA/MATL	WATER INCHES	LEAK LOKATOR RESULTS LEVEL INCHES	LEAK LOKATOR RESULTS AIR GPH	LEAK LOKATOR RESULTS CONCLUSION	LEAK LOKATOR RESULTS RECOMMENDATIONS
1	DIESEL	10000	95/ST	0	169	-.037	TIGHT	

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	PRODUCT	TYPE OF PUMP REMOTE	TYPE OF PUMP SUCTION	POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
1	DIESEL	WAYNE		50		10			PASS

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO.	TEST LEVEL (IN.)	TIME CLOCK STATE	TIME DURATION (HR-MIN)	LEAK RATE CC/DIV	LEAK RATE CC/MIN	TEMPERATURE COMPENSATION DELTA °F	TEMPERATURE COMPENSATION CC/MIN	ABSOLUTE LEAK RATE CC/MIN	ABSOLUTE LEAK RATE GPH	CHECK TEST Y/N
1	DIESEL	1	169	11:30	:30	4.562	+7.557	+.035	+9.935	-2.378	-.037	N

*LEVEL - Inches from Tank Bottom to Test Level
ALR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour
CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

CERTIFIED

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 4
Team Manager: A. CHAND

HUNTER ENVIRONMENTAL SERVICES, INC.
18350 MT. LANGLEY STREET, SUITE 101
FOUNTAIN VALLEY, CA 92708
800-247-9014 800-247-2186

FINAL TEST RESULTS
TEST DATE: 8/10/88

CUSTOMER: XTRA OIL
ADDRESS: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

LOCATION/IDENTIFICATION NO.:

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE GALLONS	TANK SIZE DIA/MATL.	WATER INCHES	LEAK LOKATOR RESULTS LEVEL INCHES	LEAK LOKATOR RESULTS AIR GPH	LEAK LOKATOR RESULTS CONCLUSION	LEAK LOKATOR RESULTS RECOMMENDATIONS
1	S/U	10000	95/ST	0	150	-.010	TIGHT	
2	U/L	10000	95/ST	0	159	+.011	TIGHT	
3	REG	10000	95/ST	0	154	+.041	TIGHT	
4	DIESEL	10000	95/ST	0	NO TEST			

OTHER INFORMATION: NO TEST ON DIESEL DUE TO LACK OF PRODUCT. RUNNING PRESSURE TESTS DUE TO INTERNAL CHECK VALVE.

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP REMOTE	TYPE OF PUMP SUCTION	POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
1	S/U	TOKHEIM		29		15			PASS
2	U/L	TOKHEIM		27		15			PASS
3	REG	RED JACKET		50		15			PASS
4	DIESEL	TOKHEIM		28		15			PASS

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO	TEST LEVEL (IN.)	TIME CLOCK STATE	TIME DURATION (HR-MIN)	LEAK RATE CC/DIV	LEAK RATE CC/MIN	TEMPERATURE COMPENSATION DELTA °F	TEMPERATURE COMPENSATION CC/MIN	ABSOLUTE LEAK RATE CC/MIN	ABSOLUTE LEAK RATE GPH	CHECK TEST Y/N
1	S/U	1	150	10:40	:35	1.522	+21.827	+.054	+22.482	-.655	-.010	N
2	U/L	1	159	11:20	:30	1.195	+7.410	+.016	+6.661	+.749	+.011	N
3	REG	1	154	9:50	:45	1.360	+7.603	+.012	+4.996	+2.607	+.041	N

*LEVEL - Inches from Tank Bottom to Test Level
ALR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour
CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFIED

CERTIFICATION

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 32
Team Manager: E. PRICE
Tank Testing Specialist: S. PORRAS

TANK AND LOCATION DATA

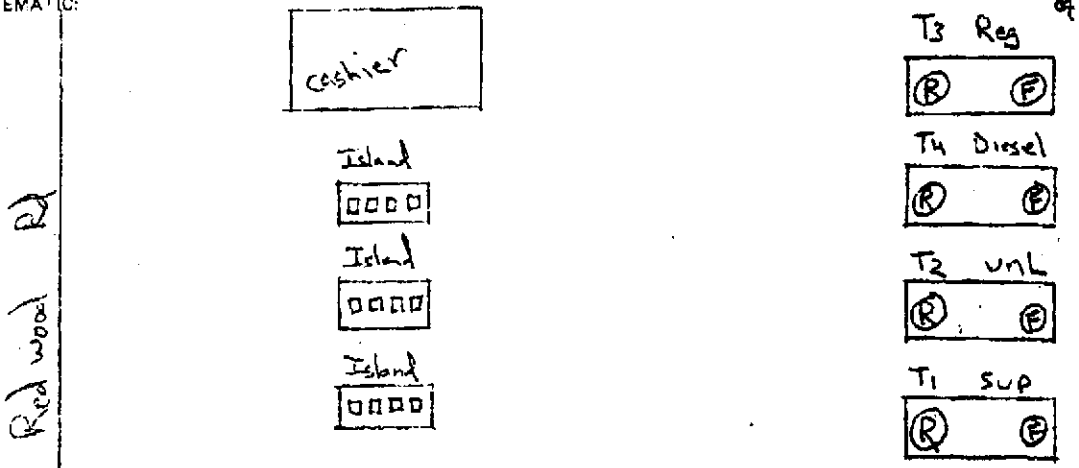
DATE: 1-31-86

CUSTOMER: SHELL CITY: Castro Valy

I.D. # 810910 STATE: CA

	WEATHER	TIME	TEMPERATURE	COMMENTS
BEFORE TEST –	Rain	10:00	45°	
AFTER TEST –		5:00		

SCHEMATIC:



Castro valley Blvd

	PRODUCT/TANK NO.	T1 Sup		T2 unL		T3 Reg		T4 Diesel			
		Fill	Gauge	Fill	Gauge	Fill	Gauge	Fill	Gauge	Fill	C
BEFORE DELIVERY	LEVEL										
	GALLONS										
	WATER	0		0		0		0			
	TOP OF RISER	135		134		135		135			
	GRADE	141		141		142		141			
	DROP TUBE	Alum		Alum		Alum		ALUM			
	CAPACITY, GALLONS	10 000		10 000		10 000		10 000			
	DIAMETER, INCHES	95		95		95		95			
	MATERIAL	ST		ST		ST		ST			
	PUMP TYPE	Wayne		Wayne		RS		Wayne			
	TYPE OF COVER	Conc		Conc		Conc.		Conc			
	AGE OF TANK	N/A		N/A		N/A		N/A			
	SIPHON	No		no		no		no			
	TANK OPENINGS	1-4		1-4		1-4		1-4			
	EXTRACTORS	none		none		none		none			
	TYPE	Stage II		Stage II		Stage II		Stage I			

PRODUCT	GALLONS	DIA/MAT.	INCHES				RECOMMENDATIONS	TEST TANK S/D
Sup	10000	95/ST	0	148	.004	T		
unL	10000	95/ST	0	147	+.010	T		
Reg	10000	95/ST	0	146	-.002	T		
Diesel	10000	95/ST	0	147	+.002	T		

ER INFORMATION

PRODUCT LINES – HYDROSTATIC PRESSURE TEST RESULTS

SYSTEM PRODUCT	TYPE OF PUMP: REMOTE	TYPE OF PUMP: SUCTION	# APPLIED	MINUTES APPLIED	PRODUCT LOSS CC'S	PRODUCT LOSS GPH	CONCLUSION RESULT
Sup	Wayne		50 psi	10			T
unL	Wayne		50 psi	10			T
Reg	RJ		50 psi	10			T
Diesel	Wayne		50 psi	10			T

TE: On suction systems, NEVER put more than 15 psi on any pump system.

ER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

22

DETAIL OF TEST RESULTS

SYSTEM PRODUCT	TEST NO.	TEST LEVEL (INCHES)	TIME: CLOCK START	TIME: DURATION H:MIN	LEAK RATE: CC/HR	LEAK RATE: CC/MIN	TEMPERATURE COMPENSATION: Δ °F	TEMPERATURE COMPENSATION: CC/MIN	ABSOLUTE LEAK RATE: CC/MIN	ABSOLUTE LEAK RATE: GPH	PASS/FAIL
		148	1:36	15 min	3.7	-.2037	-.018	-6.727	-.3	-.004	
Sup											
		147	2:30	27 min	9.22	-3.522	-.010	-4.304	+.662	+.010	
unL											
		146	2:00	17 min	3.78	+3.708	+.009	+3.764	-.375	-.002	
Reg											
		147	3:33	16 min	3.77	+.754	+.002	+.567	+.187	+.002	
Diesel											

VEL – INCHES FROM TANK BOTTOM TO TEST LEVEL

T – ABSOLUTE LEAK RATE (MEASURED LEAK RATE – TEMPERATURE COMPENSATION) IN GALLONS PER HOUR

ICLUSION – NFPA 329 CRITERION OF ±0.05 GPH IS USED TO CERTIFY TIGHTNESS

TIFICATION This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. These indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

TEST VAN NO.	TESTS CONDUCTED BY: TANK TESTING SPECIALIST	CERTIFIED BY: SIGNATURE	DATE
L-17	Nick Havriluk	Nicholas A Havriluk	1-31-86
	TANK TESTING SPECIALIST: Eric Price	NAME: N. HAVRILUK TITLE: Team Mgr	