

WEISS ASSOCIATES

Geologic and Environmental Services

3-21-90

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90 MAR 21 PM 12: 27

March 19, 1990

E. Paul Hayes
Shell Oil Company
P.O. Box 4848
Anaheim, California 92803

Re: Shell Service Station
WIC #204-007-205
2160 Otis Drive
Alameda, California
WA Job #81-429-03

Dear Mr. Hayes:

This letter outlines Weiss Associates' (WA) proposed Scope of Work (SOW) for a subsurface investigation at the subject Shell service station (Figure 1). The objectives of the work are to:

- determine if hydrocarbons or VOCs are in soil and/or ground water beneath the site,
- determine ground water flow direction and gradient,
- determine site remediation alternatives, and
- obtain regulatory closure for the excavation associated with the 1987 removal of a waste oil tank from the site.

A site history summary and an outline of our proposed SOW are presented below.

SITE HISTORY

Shell Oil Company records indicate that a steel 550-gallon waste oil tank, apparently installed in 1975, was removed from the site in June 1987 by Petroleum Engineering of Santa Rosa, California. It was replaced with a 550-gallon fiberglass tank. Backfill and native soil removed during the excavation were taken to Chemical Waste Management, Inc., of Kettleman City, California, for disposal by a California licensed waste hauler. Copies of the hazardous waste manifest for the soil are presented as Attachment A.

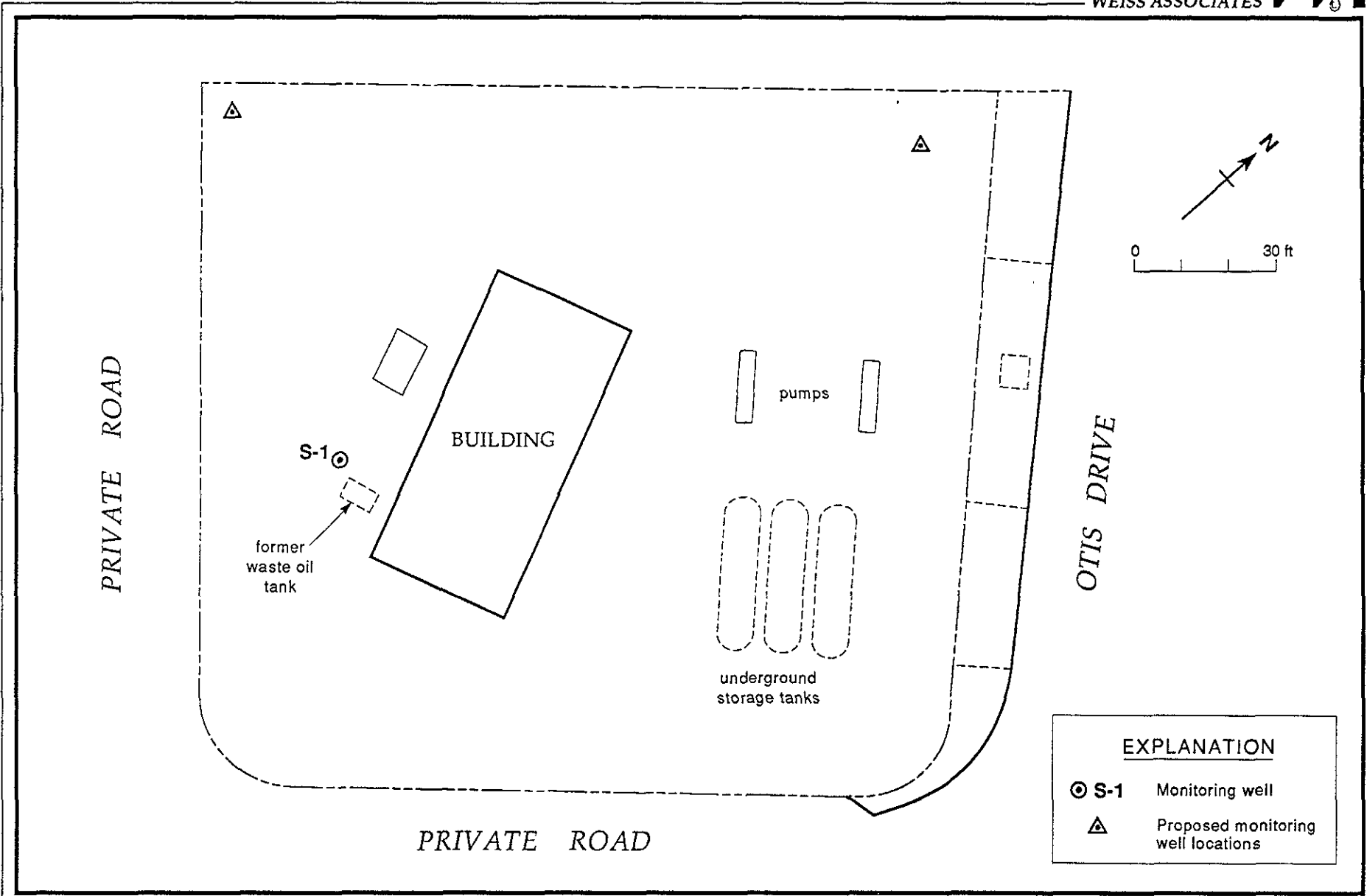


Figure 1. Proposed Monitoring Well Locations - Shell Service Station WIC# 204-007-205, 2160 Otis Drive, Alameda, California

Following the tank removal, Blaine Tech Services of San Jose, California, collected a soil sample directly beneath the former tank location at 7 ft depth, a soil sample from the excavation sidewall at 3.5 ft depth, a sample of ground water from the tank pit, and samples of stockpiles of soil excavated from the tank pit.¹ The sample from 7 ft contained 1,700 parts per million (ppm) total oil and grease (TOG). Total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) were not detected in this sample. The sample from 3.5 ft depth contained 47 ppm TOG. TOG was not detected in the water sample.

Field observations by Blaine Tech personnel indicate that the tank had a tar wrapping, and that both the tank and wrapping appeared to be in good condition, with no holes, when removed.

In September 1987, Pacific Environmental Group of Santa Clara, California (PEG) conducted a subsurface investigation to determine whether hydrocarbons were in the ground water beneath the site.² The investigation consisted of drilling one soil boring to a depth of 20.5 ft, installing ground water monitoring well S-1 in the boring, and analyzing soil and ground water samples. The boring was drilled adjacent to the southwest side of the waste oil tank pit. Ground water was encountered in the borehole at about 8 ft depth and stabilized in the monitoring well at about 5 ft depth. Soil samples were collected from the boring about every 5 ft for chemical analysis. TOG was detected in the soil samples at concentrations between 70 and 1,600 ppm. Total petroleum hydrocarbons as oil and jet fuel (TPH-O/JF) were also detected in the samples at concentrations between 16 and 385 ppm. Benzene, ethylbenzene, toluene and xylenes (BETX) and VOCs were not detected in the soil sample from 10 ft.

A ground water sample from monitoring well S-1 was analyzed for BETX and VOCs. Acetone was detected in the sample at 0.27 ppm, and an unknown alcohol was detected at 0.007 ppm.

To confirm the absence of hydrocarbons in ground water and to determine whether the acetone detected in the initial water sample could have been the result of laboratory

¹ Blaine Tech Services, 1987, Sampling Report 87165-T-1, Shell Service Station, 2160 Otis Drive, Alameda, California, consultants' letter-report prepared for Shell Oil Company, June 26, 1987, 3 pp. and 2 attachments.

² Pacific Environmental Group, 1987, Soil and Groundwater Investigation at Shell Service Station, 2160 Otis Drive, Alameda, California, consultant's letter-report prepared for Shell Oil Company, October 27, 1987, 3 pp and 7 attachments

contamination, WA collected ground water samples from well S-1 on September 11, 1989.³ At this time, the depth to water in the well was about 4.3 ft. Chromium, lead and zinc were detected in the ground water at 0.09 ppm, 0.09 ppm and 0.10 ppm, respectively. Hydrocarbons, PCBs, VOCs and semi-volatile organic compounds (SVOCs) were not detected in the ground water. Acetone and alcohol, detected in the ground water samples from September 1987, were not detected in the recent samples. Therefore, it is likely that the previous results reflected laboratory contamination.

Since over 1,000 ppm TOG was detected in soil samples from beneath and adjacent to the former waste oil tank, Shell Oil has retained WA to perform a subsurface investigation to determine the ground water gradient beneath the site, to determine the extent of hydrocarbons in soil and/or ground water and to investigate alternatives for site remediation.

PROPOSED SCOPE OF WORK

Our proposed SOW for this initial investigation is to:

- 1) Review the site history and prepare a site safety plan,
- 2) Identify wells within one-half mile of the site and prepare a map showing their locations relative to the site,
- 3) Obtain all permits and drill two on-site soil borings. Collect soil samples for subsurface hydrogeologic description and for possible chemical analysis,
- 4) Complete the borings as 4-inch-diameter ground water monitoring wells,
- 5) Develop the wells, collect water samples and analyze the samples for hydrocarbons and VOCs,
- 6) Survey top-of-casing elevations for each well and determine the ground water flow direction at the site,

³ Weiss Associates, 1989, Petition for Tank Closure, Shell Service Station, 2160 Otis Drive, Alameda, California, consultant's letter prepared for Shell Oil Company, October 13, 1989, 9 pp. and 4 attachments.

- 7) Review the analytic results for the soil and ground water samples and, based on the analytic results and the ground water flow direction, drill/install additional borings and wells, if necessary, to completely define the horizontal extent of hydrocarbons in soil and ground water on- and offsite,
- 8) Perform an area reconnaissance to locate possible offsite hydrocarbon sources and prepare a map of the surrounding properties and businesses,
- 9) Arrange for disposal of drill cuttings and well purge water,
- 10) Report the subsurface investigation results,
- 11) Sample ground water quarterly,
- 12) Prepare quarterly status reports, and
- 13) Recommend additional work to achieve closure of the former waste oil tank excavation.

Each of these tasks is described in detail below.

TASK 1 - REVIEW SITE HISTORY AND PREPARE A SITE SAFETY PLAN

Based upon the site history, previous work and analytic results for soil and water samples collected at the site, WA will prepare a site-specific safety plan. The safety plan will identify potential site hazards and specify procedures to protect site workers and the public.

TASK 2 - AREA WELL SURVEY

An area well survey will be conducted to locate and identify water wells within one-half mile of the site. The survey will consist of reviewing California Department of Water Resources (DWR) and Alameda County records, and visually surveying the site vicinity. The well locations will be shown on a map and the owners and uses of the wells will be tabulated. The results of the survey will be included in the investigation report.

TASK 3 - SOIL BORING AND CHEMICAL ANALYSIS

We will obtain well construction permits from Alameda County Flood Control and Water Conservation District (Zone 7). Based on the location of site structures and underground and overhead utilities, we will drill two soil borings at the proposed borehole locations shown on Figure 1 to provide adequate spacing to determine the ground water gradient.

The drill cuttings and soil samples will be described and the samples will be screened with a portable photoionization detector (PID). The first boring drilled will be continuously cored and logged to total depth to fully characterize the subsurface materials. Soil samples will be collected for chemical analysis at least every five feet in all borings. At least one sample will be collected and analyzed from just above the water table.

The samples will be submitted to a Shell-approved state-certified laboratory under chain-of-custody procedures for the following analyses:

- Total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015, gas chromatography with flame ionization detection (GC/FID),
- Aromatic hydrocarbons including benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020, gas chromatography with photoionization detection (GC/PID),
- Halogenated volatile organic compounds (HVOCs) by EPA Method 8010, gas chromatography with electrolytic conductivity detection (GC/ECD), and
- Total oil and grease (TOG) by American Public Health Association (APHA) Standard Methods 503D&E.

The results of the analyses outlined above will determine if analysis for additional compounds is advised under recently revised California Regional Water Quality Control Board guidelines.⁴

One composite sample from each boring will be analyzed for TPH-G and BETX, and for total and organic lead to characterize the cuttings for disposal. Flashpoint and soluble lead

⁴ North Coast, San Francisco Bay and Central Valley Regional Water Quality Control Boards, 1989, Regional Board Staff Recommendations for Minimum Verification Analyses for Underground Tank Leaks.

analyses will be performed if warranted by the earlier results.

Drill cuttings will be stored temporarily on-site on plastic sheeting pending analytic results of the composite sample. The stockpile will also be covered with plastic sheeting to prevent possible aeration of volatile compounds. The soil will then be transported to an appropriate disposal facility by a licensed waste hauler, and will be tracked and documented.

TASK 4 - GROUND WATER MONITORING WELLS

Ground water monitoring wells will be installed in the soil borings. The wells will be constructed with 4-inch-diameter, 0.02-inch slotted PVC well screen and blank casing. Number 3 Monterey sand will be placed in the annular space between the casing and the borehole from the bottom of the boring to about 2 ft above the screened interval. About 1 to 2 ft of bentonite pellets will separate the sand from the sanitary seal. Cement mixed with 3-5% bentonite powder will be used to prevent infiltration of surface water into the well.

The well will be screened to monitor the first water-bearing zone encountered. If a confining layer is encountered below the first water-bearing zone, its thickness will be confirmed by sampling with decreasing diameter split barrel samplers. The sampling hole through the underlying confining layer will be sealed with bentonite pellets.

TASK 5 - WELL DEVELOPMENT, SAMPLING AND GROUND WATER CHEMICAL ANALYSIS

The monitoring wells will be developed using at least two episodes of surge block agitation and airlift evacuation, and the flow rate for each well will be estimated. Airlift evacuation will continue until at least ten well casing volumes of ground water have been removed, and the water is as free of fine sediments as possible. Ground water removed from the wells will be temporarily stored on-site in 55-gallon drums.

Ground water samples will be collected from all wells at least 24 hours after the new wells are developed. Prior to sampling, at least four well casing volumes of ground water will be evacuated from each well using steam-cleaned PVC bailers. The wells will then be allowed

to recover to at least 80% of their original water level before sampling. Water samples will be collected with steam-cleaned Teflon bailers, and will be decanted into 40-ml glass vials, labeled and refrigerated for transport under chain-of-custody to the analytic laboratory. To reduce the possibility of sample contamination during transport or storage, each sample will be sealed in a plastic guard bottle containing activated carbon pellets. Purged ground water will be stored temporarily on-site in 55-gallon drums pending analytic results.

A trip blank will accompany the samples to check for carry-over of VOCs during transport. A bailer blank will also be collected and analyzed as a quality assurance measure.

Ground water samples will be analyzed for:

- TPH-G and D by Modified EPA Method 8015, GC/FID,
- BETX by EPA Method 8020, GC/PID,
- HVOCs by EPA Method 601, GC/ECD, and
- TOG by APHA Standard Method 503A.

The results of the above analyses will determine whether analysis for additional compounds is necessary.

An electronic water-oil interface probe and a specially designed product thickness bailer will both be used to measure product thickness in the wells prior to well purging and sampling, if free-floating hydrocarbons are encountered.

TASK 6 - ELEVATION SURVEY

Top-of-casing elevations of the monitoring wells will be surveyed relative to mean sea level by a California registered land surveyor. Water table elevation data will be tabulated and a ground water elevation contour map will be prepared.

TASK 7 - ADDITIONAL SOIL BORINGS AND/OR GROUND WATER MONITORING WELLS

The ground water elevation data and the analytic results for soil and ground water will

be reviewed. Additional soil borings and/or monitoring wells may be installed as necessary to assess the horizontal extent of hydrocarbons in soil and/or ground water beneath and adjacent to the site. If additional wells are necessary, they will be developed and sampled according to the protocol outlined above for the initial phase wells. The soil and ground water samples will be analyzed for TOG, TPH-G and BETX as well as all other compounds detected during the initial phase investigation. The top-of-casing elevation of all additional wells will be surveyed by a California registered land surveyor. Analytic results and construction details for all wells will be presented in the final investigation report once the extent of dissolved hydrocarbons in soil and ground water is fully defined.

TASK 8 - ADJACENT PROPERTY SURVEY

WA will reconnoiter properties within at least one block of the site to indicate potential nearby off-site sources of hazardous materials to the subsurface. A map indicating the location and apparent use of the nearby properties will be prepared.

TASK 9 - DISPOSAL

Disposal of the soil cuttings and purged ground water will be determined by the soil and ground water analytic results. All contaminated soil and ground water extracted from the site will be tracked and documented.

TASK 10 - SUBSURFACE INVESTIGATION REPORT

A report presenting the results of the investigation will be prepared after WA fully defines the extent of hydrocarbons in soil and ground water. The report will include:

- A summary of the results,
- Site background and history,
- Topographic and geologic setting,

- Site location map,
- Land and ground water use in the vicinity,
- Rationale for well placement and design, and descriptions of the well construction, development and sampling,
- Tabulated soil and ground water analytic results, and all data collected during well development, purging and sampling, including estimated flow rate, pH, temperature and electrical conductivity measurements on the initial sampling,
- Tabulated ground water elevation data and a water table elevation contour map,
- Conclusions,
- Appendix A: Boring logs
- Appendix B: Chain-of-custody forms, and
- Appendix C: Laboratory Analytic Reports.

TASK 11 - QUARTERLY GROUND WATER MONITORING

Ground water from all monitoring wells will be sampled quarterly after the initial sampling. If additional wells are installed, they will be added to the quarterly monitoring program.

TASK 12 - QUARTERLY REPORTS

WA will prepare status reports every three months which present all analytic results, analytic reports, and brief summaries of work performed at the site in the previous quarter. The report summarizing activities for the second quarter of 1990 will be submitted to the Alameda County Department of Health by July 30, 1990.

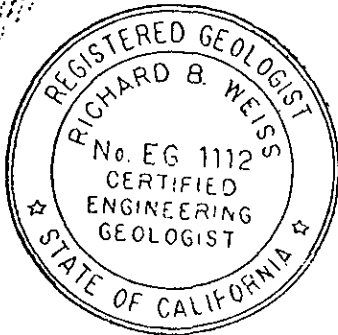
TASK 13 - RECOMMENDATIONS

WA will review analytic reports and all other data from the investigation and present recommendations to Shell Oil for additional work, including site remediation, as may be necessary.

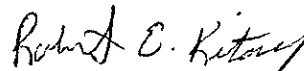
SCHEDULE

We expect to begin work at this site in the first week of April 1990. Well development and initial water sampling will be scheduled for the week following drilling. A report presenting the results of the investigation will be prepared when the extent of hydrocarbons in soil and ground water is fully defined.

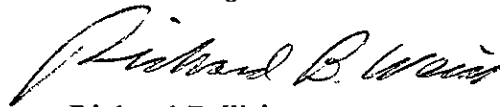
Please call Robert Kitay or Karen Sixt if you have questions about our proposed SOW. We appreciate the opportunity to provide hydrogeologic consulting services to Shell Oil, and trust that this proposal meets your needs.



Sincerely,
Weiss Associates



Robert E. Kitay
Staff Geologist



Richard B. Weiss
Principal Hydrogeologist

REK/RBW:kw

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Attachment A - Hazardous Waste Manifest for Soil

cc: Ariu Levi, Alameda County Environmental Health Department, Hazardous Materials Division, 80 Swan Way, Room 200, Oakland, California 94621

Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region, 1800 Harrison Street, Oakland, California 94612

ATTACHMENT A

Hazardous Waste Manifest for Soil

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A D 9 8 1 4 0 3 1 8 1 1 0 0 7 7	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address SHELL OIL COMPANY, PO BOX 6249 CARSON, CA 90749		GENERATING SITE SHELL STATION BA 777 2160 OTIS DRIVE/PRIVATE ALAMEDA, CA 94503		A. State Manifest Document Number 37038825	
4. Generator's Phone (213) 816-2037		6. US-EPA ID Number C A D 9 8 1 4 6 1 0 6 4		B. State Generator's ID TAX ID NO. H Y H Q 3 6 - 0 1 0 1 7 7	
5. Transporter 1 Company Name CROSBY & OVERTON EMI		8. US EPA ID Number		C. State Transporter's ID 801784	
7. Transporter 2 Company Name		10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		D. Transporter's Phone 415/633-0336	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 35251 OLD SKYLINE RD KEMBLEMAN CITY, CA 93239		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID C A T 0 0 0 6 4 6 1 1 7	
				H. Facility's Phone 800/222-2964	

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.	
				State	EPA/Other
a. Hazardous waste, solid, n.o.s., ORM-E, NA9189	0,01 D F	00014	Y	State 611	EPA/Other D008
b.				State	EPA/Other
c.				State	EPA/Other
d.				State	EPA/Other

J. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 100%	K. Handling Codes for Wastes Listed Above a. 03 b. c. d.
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15. Special Handling Instructions and Additional Information
 AVOID CONTACT WITH EYES AND SKIN.
 OWM PROFILE SHEET #SFO-F65696-050

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 R G Newsome	Signature <i>R G Newsome</i>	Month Day Year 06/15/87
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17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Don Olsen	Signature <i>Don Olsen</i>	Month Day Year 10/6/87

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

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 BOB HULET	Signature <i>Bob Hulet</i>	Month Day Year 10/6/87

GENERATOR
TRANSPORTER
FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD9814031811		Manifest Document No.	2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address SHELL OIL COMPANY, PO BOX 6249 CARSON, CA 90749				GENERATING SITE SHELL STATION 2160 OTIS DRIVE/PRIVATE ALAMEDA, CA 94503		A. State Manifest Document Number 87038305		
4. Generator's Phone (213) 816-2037						B. State Generator's ID TAX ID NO. HYHQ36-010177		
5. Transporter 1 Company Name CROSBY & OVERTON EMI				6. US EPA ID Number CAD981461064		C. State Transporter's ID 809631		
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 415/633-0336		
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 35251 OLD SKYLINE RD KETILEMAN CITY, CA 93239				10. US EPA ID Number CAT000646117		E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility's ID CA000646117		
						H. Facility's Phone 800/222-2964		

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. Hazardous waste, solid, n.o.s., ORM-E, NA9189	0,0,1	DR	90,0,15	Y	State 611 EPA/Other D008
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 100%		K. Handling Codes for Wastes Listed Above	
a.		b.	
c.		d.	

15. Special Handling Instructions and Additional Information **AVOID CONTACT WITH EYES AND SKIN.**
 CWM PROFILE SHEET #SFO-F65696-050

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Printed/Typed Name: **R.G. Newsome** Signature: *R.G. Newsome* Month Day Year: 07/15/87

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **FRED ISH JR. - JON FRASER** Signature: *Fred Ish Jr. - Jon Fraser* Month Day Year: 07/15/87

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: *[Signature]* Month Day Year: 07/16/87

19. Discrepancy Indication Space
 11) Improper DST

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name: **Danny B. Downes** Signature: *Danny B. Downes* Month Day Year: 07/16/87

GENERATOR

TRANSPORTER

FACILITY

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

87038782

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 9 8 1 4 0 3 1 8 1 1 0 0 7 7		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address SHELL OIL COMPANY, PO BOX 6249 CARSON, CA 90749				GENERATING SITE 3A SHELL STATION 777 2160 OTIS DRIVE/PRIVATE ALAMEDA, CA 94503		A. State Manifest Document Number 87038782		B. State Generator's ID TAX ID NO. H Y H Q 3 6 - 0 1 0 1 7 7									
4. Generator's Phone (213) 816-2037				6. US EPA ID Number CA D 9 8 1 4 6 1 0 6 4		C. State Transporter's ID 801783		D. Transporter's Phone 415/633-0336									
5. Transporter 1 Company Name CROSBY & OVERTON EMI				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone									
7. Transporter 2 Company Name				10. US EPA ID Number		G. State Facility's ID CAT 000046117		H. Facility's Phone 800/222-2964									
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 35251 OLD SKYLINE RD KETTLEMAN CITY, CA 93239				10. US EPA ID Number CA T 0 0 0 6 4 6 1 1 7													
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.					
						a.		No.		Type						State 611	
						b.		0 0 1		D T		0 0 0 1 1 2		Y		EPA/Other 1008	
						c.										State	
						d.										EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 100%						K. Handling Codes for Wastes Listed Above a. 03		b.		c.		d.					
15. Special Handling Instructions and Additional Information CM PROFILE SHEET #SFO-F65696-050						AVOID CONTACT WITH EYES AND SKIN.											
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Printed/Typed Name RG Newsome			Signature <i>RG Newsome</i>			Month Day Year 10/6/87											
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name Tony H. Yue			Signature <i>Tony H. Yue</i>			Month Day Year 10/15/87								
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name			Signature			Month Day Year								
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 Bob Huest			Signature <i>Bob Huest</i>			Month Day Year 11/15/87											