ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3603

July 29, 1994

Mr. Brian Ward
US Wind Power
6952 Preston Ave
Livermore, CA 94550

Dear Mr. Ward:

This letter confirms the completion of site investigation and remedial action for the former waste oil underground storage tank removed from the above site on March 1990.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Rafat A. Shahid
Assistant Agency Director

cc: Edgar B. Howell, Chief, Hazardous Materials Division
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (uswind3)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: April 22, 1994**

Agency name: **Alameda County-HazMat** Address: **80 Swan Wy., Rm 200**
City/State/Zip: **Oakland** Phone: **(510) 271-4320**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **US Wind Power**
Site facility address: **17350 Patterson Pass Rd, Livermore 94550**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3603**
URF filing date: **5/23/00** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. US Wind Power Attn. G. Morales	6952 Preston Ave Livermore, CA 94550	
2. Malgreeney Ranch	P.O. Box 2053, Livermore 94550	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	550 gallon	Waste Oil	Removed	3/26/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Overfilling tank w/ used transmission fluid**
Site characterization complete? **YES**
Date approved by oversight agency: **4/21/94**
Monitoring Wells installed? **NO** Number:
Proper screened interval? **NA**
Highest GW depth below ground surface: **NA** Lowest depth:
Flow direction: **NA**
Most sensitive current use: **Irrigation**
Are drinking water wells affected? **Unknown** Aquifer name:
Is surface water affected? **NO** Nearest affected SW name:
Off-site beneficial use impacts (addresses/locations):

Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
80 Swan Wy., Rm 200
Oakland CA 94621

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	1 UST	Taken to Erickson	3/26/90
Piping	NA		
Free Product	"		
Soil	15 cy	Bioremediated and left onsite	
Groundwater	NA		
Barrels	"		

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before	Water (ppb) After
TPH (Gas)	ND	ND	NA	
TPH (Diesel)	14	ND	"	
Benzene	ND	ND		
Toluene	.0087	ND		
Ethylbenzene	ND	ND		
Xylenes	.010	ND		
Oil & Grease	700	ND		
Heavy metals	- none analyzed			
Other Cl-HC	ND			

Comments (Depth of Remediation, etc.):

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommisioned: **NA**
Number Decommisioned: Number Retained:
List enforcement actions taken: **None**

List enforcement actions rescinded:

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	1 UST	Taken to Erickson	3/26/90
Piping			
Free Product			
Soil	15 cy	Bioremediated and left onsite	
Groundwater			
Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before	Water (ppb) After
TPH (Gas)	ND	ND		
TPH (Diesel)	14	ND	NA	
Benzene	ND	ND		
Toluene	.0087	ND		
Ethylbenzene	ND	ND		
Xylenes	.010	ND		
Oil & Grease	700	ND		
Heavy metals -	none analyzed			
Other Cl-HC	ND			

Comments (Depth of Remediation, etc.):

See section VII, additional comments...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommisioned: **NA**
Number Decommisioned: **NA** Number Retained: **NA**
List enforcement actions taken: **None**

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Date:

Reviewed by

Name: **Jennifer Eberle** Title: **Haz Mat Specialist**

Signature: Date:

Name: **Scott Seery** Title: **Sr. Haz Mat Specialist**

Signature: Date:

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**

Signature: Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

A 550 gallon waste transmission fluid oil UST was removed on 3/26/90. The doubled-walled (STIP-3) tank had no signs of corrosion, but the sides were stained with oil and exhibited a slight hydrocarbon odor. From these observations, soil contamination was most likely due to overfilling of the UST. A soil sample collected at 8.5' depth, beneath the tank exhibited 700 ppm TOG and 14 ppm TPH-D. The pit was overexcavated to 13 ' depth, where a soil sample analyzed did not exhibit TPH-G, TPH-D, BTEX, or Cl-HC. ~~Even though analysis for~~ TOG ~~was~~ was not performed after overexcavation. ~~transmission fluid does not contain volatile compounds.~~ Residual TOG at a concentration of 700 ppm or less, ~~at 13' bgs,~~ is not likely to affect human health ~~at~~ this remote area. ~~And it's slow mobility in soil is not likely affect groundwater, which is at least 80' bgs.~~

At this depth, however, migrate to any significant degree or hence,

15 cy of soil were bioremediated onsite. A discrete sample exhibited 77 ppm TOG and ND for TPH-D. Another soil sample was analyzed using thin layer chromatography by Friedman and Bruya, who report "there was no indication of the presence of saturated hydrocarbons that are major components of petroleum products. There might be low levels of asphalt present in this sample." The bioremediated soil was disposed by spreading onsite.

The site is located on a peak within the Altamont Pass. A steep grade surrounds the site and ~~it~~ is approximately 80' above the closest road, Gomes Blvd. It is believed the groundwater is in excess of ~~80'~~ 100' below grade, based on records provided by Alameda County Zone 7 Water Agency to US Windpower. ~~Soil type~~ found beneath the ~~tank~~ site are highly-indurated, folded sandstones of the GVS.

Native lithologies

for a site approximately one mile away and 300' lower in elevation than the subject site.

With the removal of the UST and contaminated subsurface soil, as well as the apparent depth to groundwater and nature of underlying lithologies, there appears to be minimal threat to groundwater. Groundwater monitoring wells do not appear warranted.

uswind2

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: June 28, 1994**

Agency name: **Alameda County-HazMat** Address: **80 Swan Wy., Rm 200**
City/State/Zip: **Oakland** Phone: **(510) 271-4320**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **US Wind Power**
Site facility address: **17350 Patterson Pass Rd, Livermore 94550**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3603**
URF filing date: **5/23/00** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. **US Wind Power** **Attn. G. Morales**	**6952 Preston Ave** **Livermore, CA 94550**	
2. **Malgreeney Ranch**	**P.O. Box 2053, Livermore 94550**	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	**550 gallon**	**Waste Oil**	**Removed**	**3/26/90**

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Overfilling tank w/ used transmission fluid**
Site characterization complete? **YES**
Date approved by oversight agency: **4/21/94**
Monitoring Wells installed? **NO** Number:
Proper screened interval? **NA**
Highest GW depth below ground surface: **NA** Lowest depth:
Flow direction: **NA**
Most sensitive current use: **Irrigation**
Are drinking water wells affected? ***Unknown*** Aquifer name:
Is surface water affected? **NO** Nearest affected SW name:
Off-site beneficial use impacts (addresses/locations):

Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
80 Swan Wy., Rm 200
Oakland CA 94621

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	1 UST	Taken to Erickson	3/26/90
Piping			
Free Product			
Soil	15 cy	Bioremediated and left onsite	
Groundwater			
Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before	Water (ppb) After
TPH (Gas)	ND	ND		
TPH (Diesel)	14	ND	NA	
Benzene	ND	ND		
Toluene	.0087	ND		
Ethylbenzene	ND	ND		
Xylenes	.010	ND		
Oil & Grease	700	NA		
Heavy metals -	none analyzed			
Other Cl-HC	ND			

Comments (Depth of Remediation, etc.):

See section VII, additional comments...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommisioned: **NA**
Number Decommisioned: **NA** Number Retained: **NA**
List enforcement actions taken: **None**

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Eva Chu Date: 7/5/94

Reviewed by

Name: **Jennifer Eberle** Title: **Haz Mat Specialist**

Signature: Jennifer Eberle Date: 7-5-94

Name: **Scott Seery** Title: **Sr. Haz Mat Specialist**

Signature: Scott Seery Date: 7-5-94

VI. RWQCB NOTIFICATION

Date Submitted to RB: 7/6/94 RB Response:

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**

Signature: Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

A 550 gallon waste transmission fluid oil UST was removed on 3/26/90. The doubled-walled (STIP-3) tank had no signs of corrosion, but the sides were stained with oil and exhibited a slight hydrocarbon odor. From these observations, soil contamination was most likely due to overfilling of the UST. A soil sample collected at 8.5' depth, beneath the tank exhibited 700 ppm TOG and 14 ppm TPH-D. The pit was overexcavated to 13 ' depth, where a soil sample analyzed did not exhibit TPH-G, TPH-D, BTEX, or Cl-HC. TOG analysis was not performed after overexcavation. At this depth, however, a concentration of 700 ppm or less is not likely to migrate to any significant degree or, hence, affect human health.

15 cy of soil were bioremediated onsite. A discrete sample exhibited 77 ppm TOG and ND for TPH-D. Another soil sample was analyzed using thin layer chromatography by Friedman and Bruya, who report "there was no indication of the presence of saturated hydrocarbons that are major components of petroleum products. There might be low levels of asphalt present in this sample." The bioremediated soil was disposed by spreading onsite.

The site is located on a peak within the Altamont Pass. A steep grade surrounds the site and it is approximately 80' above the closest road, Gomes Blvd. It is believed groundwater is in excess of 80' below grade, based on records provided by Alameda County Zone 7 Water Agency to US Windpower for a site approximately one mile away and 300' lower in elevation than the subject site. Native lithologies found beneath the site are highly-indurated, folded sandstones of the GVS.

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: Eva Chu Date: 7/5/94

Reviewed by

Name: Jennifer Eberle Title: Haz Mat Specialist

Signature: Jennifer Eberle Date: 7-5-94

Name: Scott Seery Title: Sr. Haz Mat Specialist

Signature: Scott Seery Date: 7-5-94

VI. RWQCB NOTIFICATION

Date Submitted to RB: 7/6/94 RB Response: Approved

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: Kevin Graves Date: 7/26/94

VII. ADDITIONAL COMMENTS, DATA, ETC.

A 550 gallon waste transmission fluid oil UST was removed on 3/26/90. The doubled-walled (STIP-3) tank had no signs of corrosion, but the sides were stained with oil and exhibited a slight hydrocarbon odor. From these observations, soil contamination was most likely due to overfilling of the UST. A soil sample collected at 8.5' depth, beneath the tank exhibited 700 ppm TOG and 14 ppm TPH-D. The pit was overexcavated to 13 ' depth, where a soil sample analyzed did not exhibit TPH-G, TPH-D, BTEX, or Cl-HC. TOG analysis was not performed after overexcavation. At this depth, however, a concentration of 700 ppm or less is not likely to migrate to any significant degree or, hence, affect human health.

15 cy of soil were bioremediated onsite. A discrete sample exhibited 77 ppm TOG and ND for TPH-D. Another soil sample was analyzed using thin layer chromatography by Friedman and Bruya, who report "there was no indication of the presence of saturated hydrocarbons that are major components of petroleum products. There might be low levels of asphalt present in this sample." The bioremediated soil was disposed by spreading onsite.

The site is located on a peak within the Altamont Pass. A steep grade surrounds the site and it is approximately 80' above the closest road, Gomes Blvd. It is believed groundwater is in excess of 80' below grade, based on records provided by Alameda County Zone 7 Water Agency to US Windpower for a site approximately one mile away and 300' lower in elevation than the subject site. Native lithologies found beneath the site are highly-indurated, folded sandstones of the GVS.

With the removal of the UST and contaminated subsurface soil, as well as the apparent depth to groundwater and nature of underlying lithologies, there appears to be minimal threat to groundwater. Groundwater monitoring wells do not appear warranted.

uswind2