



90 APR 31 AM 11:25

Uriah Inc.

An Environmental Services Company

SUBSURFACE SOIL SAMPLING REPORT
FOR:

U.S. WINDPOWER
17350 PATTERSON PASS ROAD
LIVERMORE, CA

APRIL 20, 1990



Uriah Inc.

An Environmental Services Company

HELEN MAWHINNEY

April 20, 1990

Mr. Gilbert Morales, Manager
Facilities and Vehicle Maintenance
U.S. Windpower, Inc.
6952 Preston Avenue
Livermore, CA 94550

Re: Soil Sampling Performed At U.S. Windpower Facility At 17350
Patterson Pass Road, Livermore, CA

Dear Mr. Morales:

On March 26, 1990, staff of Uriah, Inc. performed soil sampling at the above referenced site attendant to the excavation and removal of one 550 gallon underground transmission fluid storage tank in order to determine the presence, if any, of hydrocarbon contamination of the soil.

METHODOLOGY

The sample (#1) was obtained from an undisturbed block of soil brought to grade in a backhoe bucket by first removing the top 2 inches of soil and then driving a clean brass sample tube into the soil. The soil sampled was obtained at a depth of 8.5 feet from the floor of the tank pit beneath the fill pipe as directed by Gil Wistar, Hazardous Materials Specialist for the Alameda County Health Services Agency- Hazardous Materials Division. The ends of the sample tube were then promptly wrapped with aluminum foil, covered with plastic caps, sealed with black electrical tape, labeled, placed on dry ice, and then transported under chain of custody to a certified hazardous waste analytical laboratory for analysis for Total Petroleum Hydrocarbons as Gasoline (TPH-G), benzene, toluene, total xylenes, and ethylbenzene (BTX&E) using EPA Method MOD. 8015 and 8020, Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Methods 3550/8015, Total Oil and Grease (TOG) using SM 503 D&E, and Volatile Organics using EPA Method 601/8010.

OBSERVATIONS

The 550 gallon double-contained underground storage tank which was removed was noted to be in excellent condition with no pitting or rust observed. Oil was observed to be present on the sides of the tank and a slight hydrocarbon odor of the surrounding soil was also noted.

LABORATORY RESULTS

Copies of all laboratory results as received from the certified hazardous waste analytical laboratory are enclosed.

CONCLUSIONS AND RECOMMENDATIONS

The level of Total Petroleum Hydrocarbons as Diesel (TPH-D) was found to be 14 parts per million (ppm) and Total Oil and Grease (TOG)- 700 ppm. Toluene was found to be 8.7 parts per billion (ppb) and total xylenes- 10 ppb. All other constituents analyzed for in soil sample #1 were found to be below detection limits.

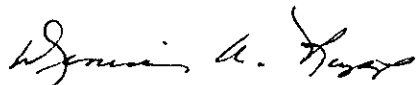
Copies of this report have been included for your convenience and a copy should be forwarded to each of the following regulatory agencies for their review:

San Francisco Bay Region Water Quality Control Board
1800 Harrison Street, Suite 700
Oakland, CA 94621
Attention: Vijay Patel

Alameda County Health Services Agency
Hazardous Materials Division
80 Swan Way, Suite 200
Oakland, CA 94621
Attention: Gil Wistar

If you have any questions, or if we may otherwise be of assistance, please contact me at (415) 455-4991.

Sincerely,



Denise A. Rapp
Vice-President, Uriah, Inc.

DAR:ms
enc.

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

April 3, 1990

ChromaLab File No.: 0390132

URIAH ENVIRONMENTAL SERVICES, INC.

Attn: Helen Mawhinney

RE: One soil sample for Gasoline/BTEX, Diesel, and Oil & Grease analyses

Project Name: U.S. WINDPOWER

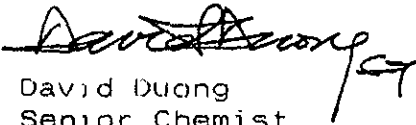
Job Number: 08590M1


Duration of Analysis: March 27-April 1, 1990

RESULTS:

Sample No.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)	Oil & Grease (mg/Kg)
SOIL #1	N.D.	14	N.D.	8.7	N.D.	10	700
BLANK SPIKE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY	102.5%	100.7%	92.8%	98.3%	99.6%	95.2%	----
DETECTION LIMIT	2.5	5	5	5	5	5	50
METHOD OF ANALYSIS	MOD. 8015	3550/8015	8020	8020	8020	8020	503 D&E

CHROMALAB, INC.


David Duong
Senior Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water

April 3, 1990

URIAH ENVIRONMENTAL SERVICES, INC.
 Project Name: U.S. WINDPOWER
 Detection Limit: 5.0ug/Kg(SOIL)
 Sample Number: SOIL #1

ChromaLab File # 0390132
 Attn: Helen Mawhinney
 Job Number: 08590M1
 Analysis Date: March 28-29,90


601/8010

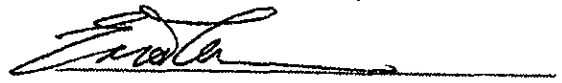
Dichlorodifluoromethane	<u>N.D.</u>
Chloromethane	<u>N.D.</u>
Vinyl Chloride	<u>N.D.</u>
Bromomethane	<u>N.D.</u>
Chlorethane	<u>N.D.</u>
Trichlorofluoromethane	<u>N.D.</u>
1,1-Dichloroethene	<u>N.D.</u>
t-1,2-Dichloroethene	<u>N.D.</u>
c-1,2-Dichloroethene	<u>N.D.</u>
1,1-Dichloroethane	<u>N.D.</u>
Chloroform	<u>N.D.</u>
1,1,1-Trichloroethane	<u>N.D.</u>
Carbon Tetrachloride	<u>N.D.</u>
Trichloroethene	<u>N.D.</u>
1,2-Dichloropropane	<u>N.D.</u>
Bromodichloromethane	<u>N.D.</u>
2-Chloroethylvinyl ether	<u>N.D.</u>
t-1,2-Dichloropropene	<u>N.D.</u>
Cis-1,3-Dichloropropene	<u>N.D.</u>
1,1,2-Trichloroethane	<u>N.D.</u>
1,1,2-Trichlorotrifluorethane	<u>N.D.</u>
Tetrachloroethene	<u>N.D.</u>
Dibromochloromethane	<u>N.D.</u>
Chlorobenzene	<u>N.D.</u>
Bromoform	<u>N.D.</u>
1,1,2,2-Tetrachloroethane	<u>N.D.</u>
1,3-Dichlorobenzene	<u>N.D.</u>
1,4-Dichlorobenzene	<u>N.D.</u>
1,2-Dichlorobenzene	<u>N.D.</u>

QA/QC:

*Sample blank concentration is none detected
 *Spiked recovery for Methylene Chloride is 98.9%, for Chloroform is 107.9%, for Trichloroethene is 111.5%.

CHROMALAB, INC.


 David Duong, Sr. / Chemist


 Eric Tam, Lab Director

URIAH ENVIRONMENTAL SERVICES, INC.
CHAIN OF CUSTODY

****For Office Use Only****

Project Name: U.S. Windpower Job# 08590M1

SAMPLING COMPLETED: 2:00 AM/PM, DATE: 3-26-90 BY: Helen M
SITE NAME AND ADDRESS: U.S. Windpower, 17350 Patterson Pass Rd.
Livermore CA

REGULATORY AGENCY REPRESENTATIVE PRESENT: Gil Wistar, Alameda Co. Env. HH
REGULATORY AGENCY REPRESENTATIVE TITLE: Haz Matl. Specialist

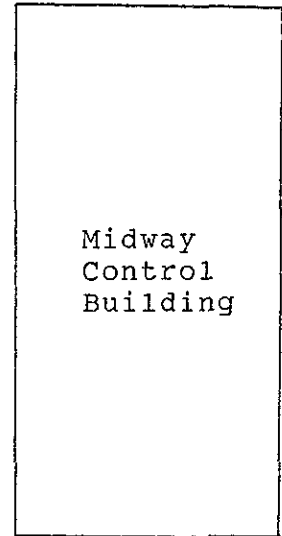
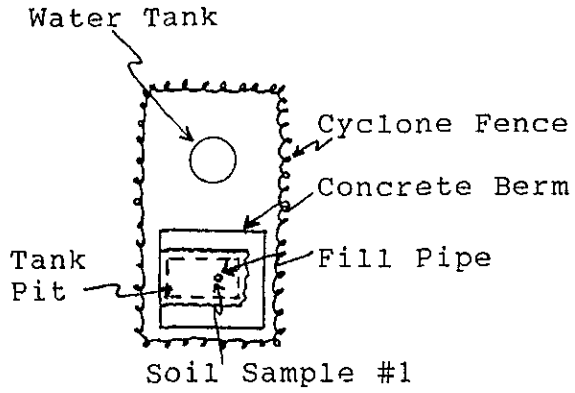
LAB USED: Chroma Lab LAB ON SITE? yes/no
SAMPLE TO LAB VIA? Lab Rep Uriah Staff Courier

SAMPLE#	SOIL/WATER PRODUCT	ANALYZE FOR	# OF CONTAINERS	SINGLE/ COMPOSITE
<u>Soil #1</u>	<u>SOIL</u>	<u>TPH-D, TOG, TPH-G & BTXE 8010</u>	<u>1</u>	<u>5</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

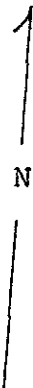
SAMPLE RELEASED BY: Helen M 5:10 AM/PM, 3/26/90
SAMPLE ACCEPTED BY: Madeline M 5:10 AM/PM, 3/26/90

TURN AROUND: Routine RESULTS TO URIAH BY: _____

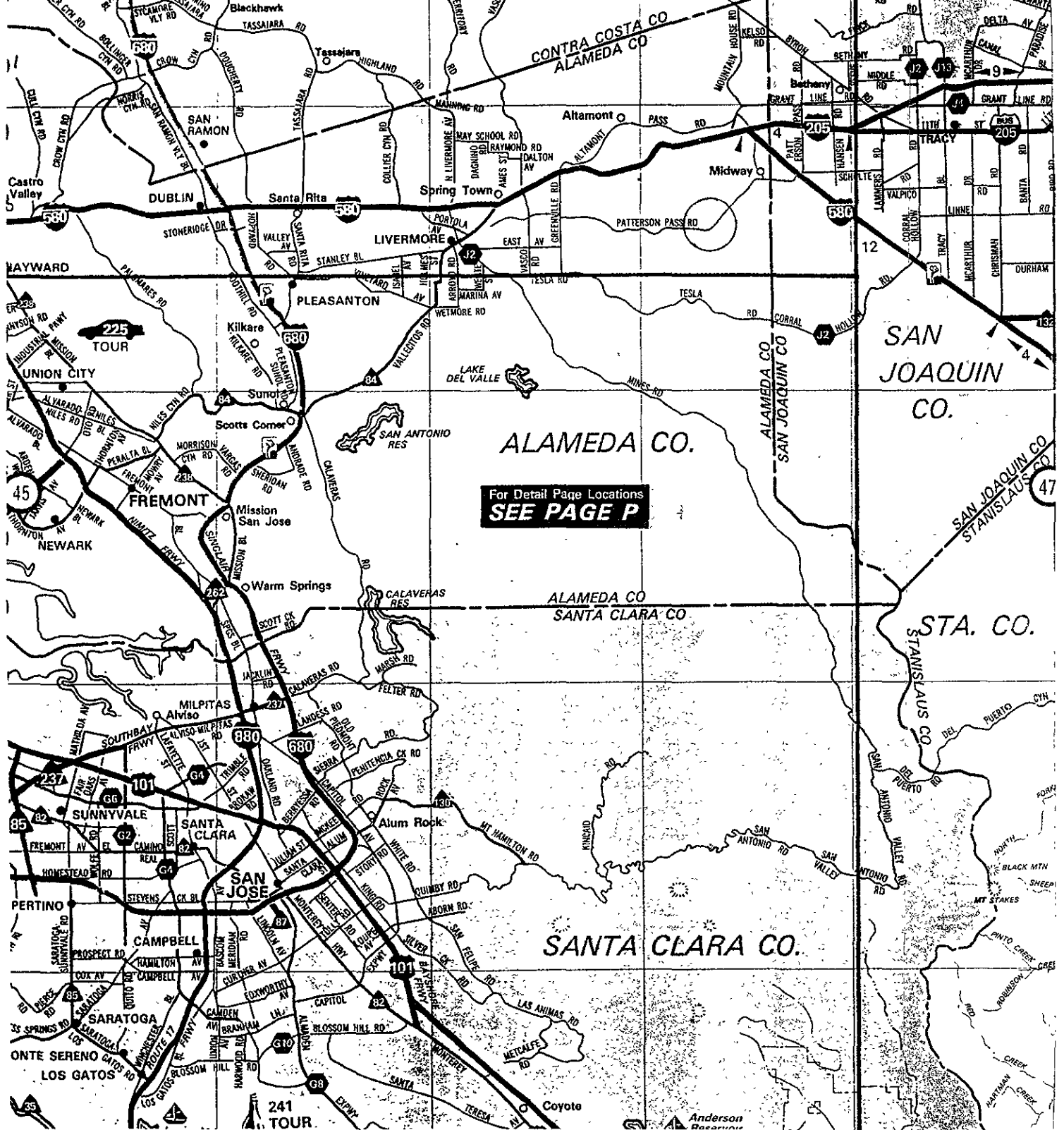
URIAH ENVIRONMENTAL SERVICES, INC.
AT:
U.S. WINDPOWER
17350 PATTERSON PASS ROAD, LIVERMORE, CA



0 25
Scale (feet)



Site Map



URIAH ENVIRONMENTAL SERVICES, INC.
AT:

U.S. WINDPOWER
17350 PATTERSON PASS ROAD, LIVERMORE, CA