



# Uriah Inc.

*An Environmental Services Company*

SOIL SAMPLING REPORT FOR:

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

JULY 3, 1990



# Uriah Inc.

An Environmental Services Company

July 3, 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. Results of analysis at that time for soil sample #1 obtained at a depth of 8.5 feet from the floor of the tank pit beneath the fill pipe revealed a level of Total Petroleum Hydrocarbons as Diesel (TPH-D) of 14 parts per million (ppm) and Total Oil and Grease (TOG) of 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.

On June 4, 1990, staff of Uriah, Inc. performed soil sampling at the referenced site attendant to a further "dig out" of the tank pit by AAA Tank Removal of Stockton, CA.

## 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 13.0 feet from the floor of the tank pit. 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

*overexposed*

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, and Volatile Organics using EPA Method 601/8010.

OBSERVATIONS

No discoloration or odor consistent with that of fuel hydrocarbons was noted.

LABORATORY RESULTS

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

CONCLUSIONS AND RECOMMENDATIONS

All constituents analyzed for were found to be below detection limits.

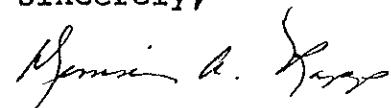
Copies of this report have been included for your convenience and a copy should be forwarded to each of the following regulatory agencies for their review:

San Francisco Bay Region Water Quality Control Board  
1800 Harrison Street, Suite 700  
Oakland, CA 94621  
Attention: Richard C. Hiatt

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,

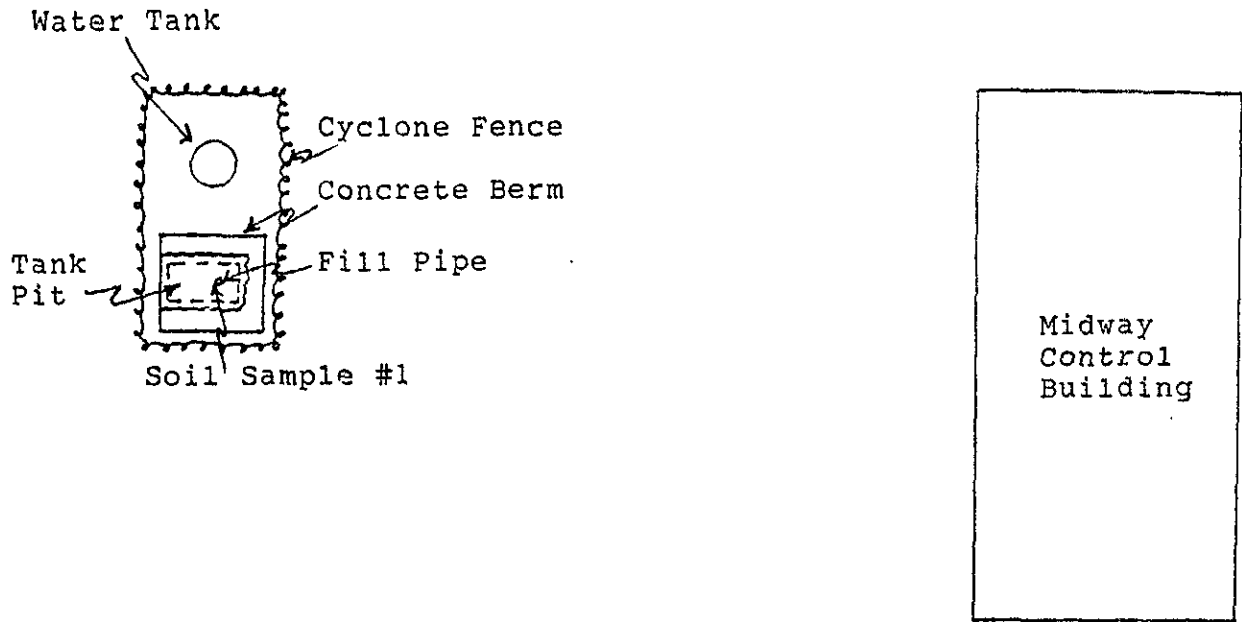


Denise A. Rapp  
Vice-President, Uriah, Inc.

DAR:ms  
enc.

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

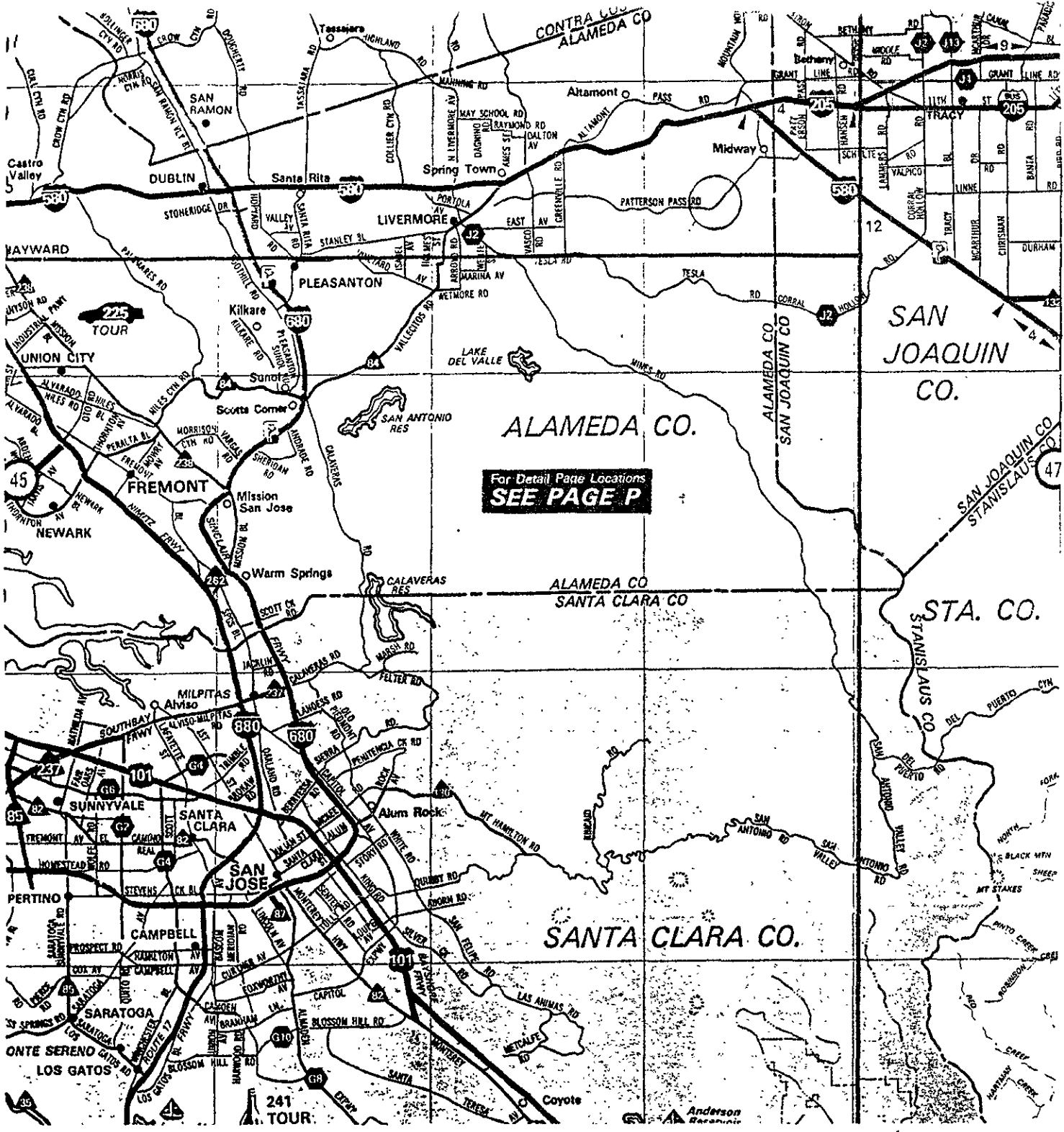
---



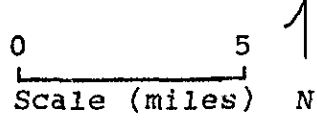
0 25  
Scale (feet)



Site Map



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



# CHROMALAB, INC.

Analytical Laboratory  
Specializing in GC-GC/MS

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

June 13, 1990

ChromaLab File No.: 0690051

URIAH ENVIRONMENTAL SERVICES, INC.

Attn: Helen Mawhinney

RE: One soil sample for Gasoline/BTEX and Diesel analyses

Project Name: U.S. WIND POWER

Project Number: 11590 M1

Date Sampled: June 4, 1990

Date Submitted: June 6, 1990


Date Extracted: June 9-13, 1990

Date Analyzed: June 9-13, 1990

## RESULTS:

Sample No.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
#1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY	94.1%	92.3%	98.3%	101.0%	97.0%	98.9%
DETECTION LIMIT	2.5	5	5	5	5	5
METHOD OF ANALYSIS	5030/ 8015	3550/ 8015	8020	8020	8020	8020

ChromaLab, Inc.

  
David Duong  
Senior Chemist

  
Eric Tam  
Laboratory Director

# CHROMALAB, INC.

Analytical Laboratory  
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

June 14, 1990  
URIAH ENVIRONMENTAL SERVICES, INC.  
Project Name: US WIND POWER  
Date of Analysis: June 7, 1990  
Sample No.: #1

ChromaLab File No.: 0690051  
Attn: Helen Mawhinney  
Project No.: 11590M1  
Detection Limit: 5.0µg/Kg(SOIL)

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>
Methylene Chloride	<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>
1,2-Dichloroethane	<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-1,3-Dichloropropene	<u>N.D.</u>
Cis-1,3-Dichloropropene	<u>N.D.</u>
1,1,2-Trichloroethane	<u>N.D.</u>
1,1,2-Trichlorotrifluoroethane	<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 Trans-1,2-Dichloroethene is 98.4%, for 1,1,1-Trichloroethane is 96.1% for Trichloroethene is 101.4%

CHROMALAB, INC.

  
David Duong, Sr. Chemist

  
Eric Tam, Lab Director

2239 Omega Road, #1 • San Ramon, California 94583  
415/831-1788 • Facsimile 415/831-8798  
Federal ID #68-0140157

ORIAN ENVIRONMENTAL SERVICES, INC.  
CHAIN OF CUSTODY

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

Project Name: US Windpower Job# 11590 MI

SAMPLING COMPLETED: 0:05 AM/PM DATE: 6-4-90 BY: Helene  
SITE NAME AND ADDRESS: U.S. Windpower, 17350 Patterson Pass Rd  
Livermore, Ca

REGULATORY AGENCY REPRESENTATIVE PRESENT: None

REGULATORY AGENCY REPRESENTATIVE TITLE: n/a

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>#1</u>	<u>soil</u>	<u>TPH-D</u> <u>TPH-G, BTX&amp;E, 8010</u>	<u>1</u>	<u>S</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

SAMPLE RELEASED BY: Helene Mankin 6/6/90 AM/PM, 6/6/90  
SAMPLE ACCEPTED BY: Talade Lewis 6/6/90 AM/PM, 6/6/90  
\_\_\_\_\_: AM/PM, \_\_\_/\_\_\_/90 \_\_\_\_\_: AM/PM, \_\_\_/\_\_\_/90  
\_\_\_\_\_: AM/PM, \_\_\_/\_\_\_/90 \_\_\_\_\_: AM/PM, \_\_\_/\_\_\_/90  
TURN AROUND: Routine RESULTS TO URIAH BY: \_\_\_\_\_