

SEP 26 1990



Uriah Inc.

An Environmental Services Company

LIMITED ENVIRONMENTAL ASSESSMENT
AT

2501 GRANT AVENUE
SAN LORENZO, CA

SEPTEMBER 17, 1990



Uriah Inc.

An Environmental Services Company

September 17, 1990

Mr. V.L. Hutchings
Concrete Wall Sawing
2501 Grant Avenue
San Lorenzo, CA 94580

RE: Limited Environmental Assessment at 2501 Grant Avenue,
San Lorenzo, CA

Dear Mr. Hutchings:

Subsequent to Mr. K.C. Barnes of CWS approving our workplan for a limited environmental assessment, Uriah undertook measurements and sampling of the refuse bin and sump pit at the above referenced site on August 17, 1990. On site tasks were performed at those locations referenced within Figure #1 of Appendix "A", attached.

SAMPLING METHODOLOGY

Sludge/sediment samples were collected appropriate to random grid protocol at the specific points shown on the following chart. The refuse bin was treated as homogenous and the sump was divided into northern and southern sections with two samples taken from each of the two sections. The four samples from each location were subsequently composited into a single sample for laboratory analyses (i.e. a total of two composite samples were submitted for analyses). In addition, a second (duplicate) set of samples were acquired and archived for possible future reference.

Refuse Bin (measurements from the northwest corner of the bin)

Sample #1... 1'5" South; 1'8" East
Sample #2... 2'3" South; 2'4" East
Sample #3... 0'4" South; 0'5" East
Sample #4... 3'9" South; 1'5" East

Sump Pit (measurements from the northwest corner of the pit)

Sample #1... 1'2" South; 1'9" East

Sample #2... 2'0" South; 0'5" East
Sample #3... 1'0" South; 0'10" East
Sample #4... 0'9" South; 1'9" East

Samples from the refuse bin were acquired by inserting clean brass tubes (1.92 inches in diameter by 6.0 inches in length) into the material present until such time as each tube was filled with a consolidated sample. Collection of material from the sump pit was accomplished by lowering the tubes under the water surface and driving the tube into the sediment beneath. The tube was filled completely by hand after decanting water that was entrapped on top of the sediment contained within the sample tube.

At such time as each sample was acquired, the ends of the sample tube were covered with 3" diameter teflon sheeting, capped with plastic, and sealed with black electrical tape. Sample(s) from the refuse bin were marked SCN-1; and sample(s) from the sump pit were marked SCS-1. Each sample tube was then placed on blue ice and transported to Uriah's offices under chain of custody. The samples were stored within Uriah's sample freezer until August 20, 1990 at which time they were transferred to a courier representing ChromaLab, Inc. of San Ramon, a State certified analytical laboratory.

ANALYTICAL PROTOCOL

Samples submitted to ChromaLab were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Methods 5030/8015, Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Methods 3550/8015, and Total Oil and Grease (TOG) using SM 503 D&E.

ANALYTICAL RESULTS

A copy of the report of certified analyses as provided by the laboratory are included herein as Appendix "B". Results of the laboratory analyses are summarized in the following chart:

Sample #	Matrix	TPH-G	TPH-D	TOG
SCN-1 (bin)	Sediment	24 ppm	560 ppm	4400 ppm
SCS-1 (pit)	Sediment	85 ppm	7000 ppm	15000 ppm

ppm...parts per million

CONCLUSIONS AND RECOMMENDATIONS

The levels of all analytes within samples acquired from both the refuse bin and sump pit are above those adopted by the Alameda County Health Care Services Agency (ACHCSA) for on site storage of waste materials (i.e. 10 ppm). These levels exceed those typically permitted for disposal at a Class III Landfill; and may also be subject to regulations governing the transportation of hazardous waste.


Following instructions contained within the Notice of Violation issued by Ms. Pamela Evans of ACHCSA, this material may no longer be transported to a Class III Landfill. While a number of alternatives are available for transportation and disposal of sump pit and refuse bin materials, it is recommended that consideration be given to implementing an on site treatment program involving low volume bioremediation technology. This could involve periodic thin-spreading of contaminated soils atop hydrocarbon resistant liners and the addition of inoculum containing non-pathogenic, hydrocarbon utilizing bacteria.... organisms which are known to be capable of mineralizing (i.e. thoroughly aerobically degrading) hydrocarbons to form the non-toxic end products of carbon dioxide, minerals, and water. At such time as the mineralization process is completed, the remediated material may be disposed of at a Class III Landfill.

Additional copies of this report have been included for your convenience. It is recommended that one be forwarded to the County of Alameda at the following address:

Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
Attention: Ms. Pamela J. Evans
Hazardous Materials Specialist

If you have any questions regarding Uriah's activities, or if we may otherwise be of assistance, please contact either of the undersigned at (415) 455-4991.

Sincerely,


Jeremy Bartlett, M.Sc.
Geologist


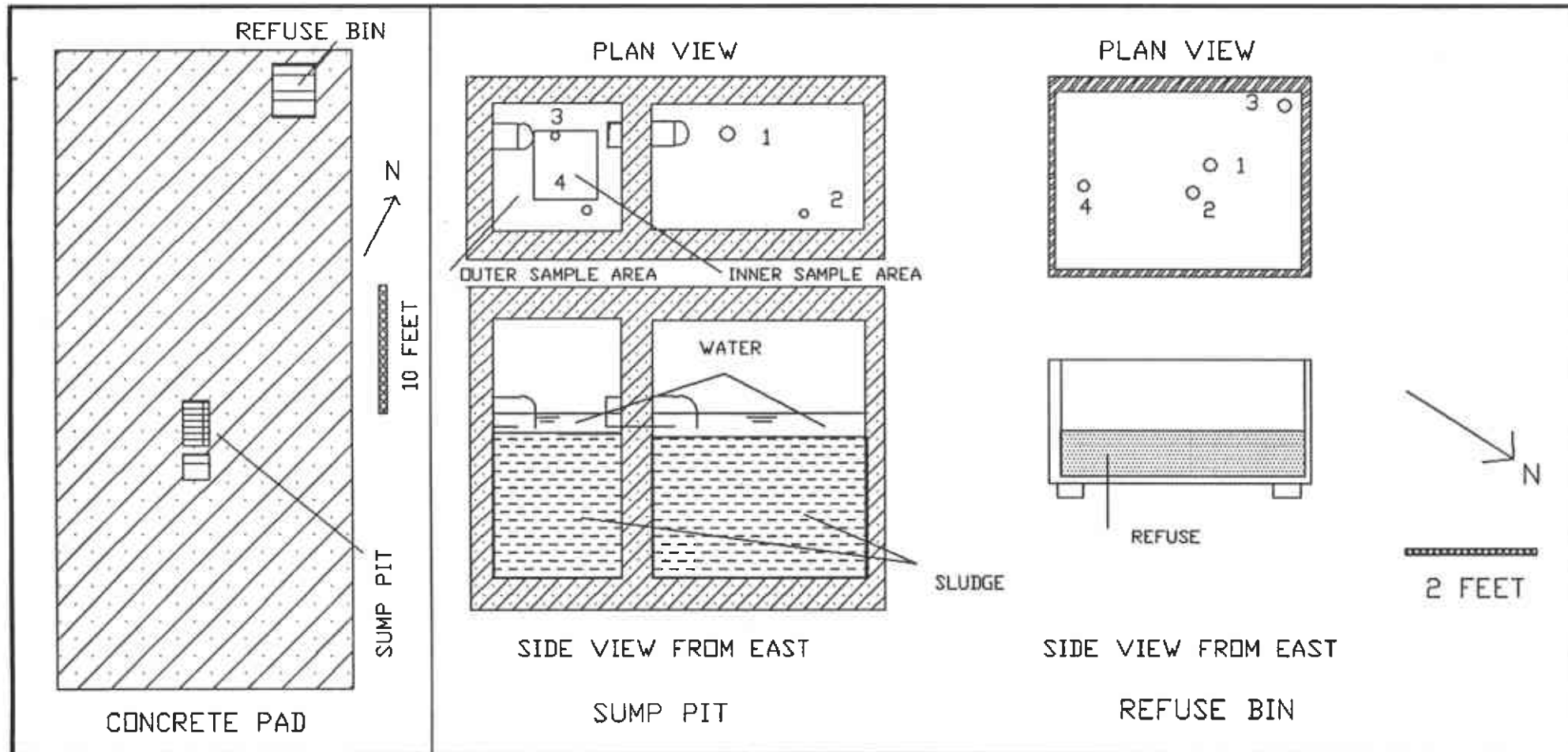

Denise A. Rapp
Vice-President, Uriah Inc.
JB/DAR:ms
enc.

Figure 1



CONCRETE WALL SAWING
SUMP PIT AND REFUSE BIN MEASUREMENTS
AND SAMPLE LOCATIONS

URIAH INC.
An Environmental Services Company
Job Number:
Date: 08/21/90
J. BARTLETT



URIAH ENVIRONMENTAL SERVICES, INC.
464 LINDBERGH AVENUE, LIVERMORE, CA

SITE IDENTIFICATION: CONCRETE WALL SAWING COMPANY, INC.
2501 Grant Avenue
San Lorenzo, CA

0 ————— 1/2

Scale (miles)



CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

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

August 27, 1990

ChromaLab File No.: 0890197

URIAH ENVIRONMENTAL SERVICES, INC.

Attn: Terry Nijjar

RE: Two soil samples for Gasoline, Diesel, and Oil & Grease analyses

Project Name: CWS

Project Number:

Date Sampled: Aug. 17, 1990

Date Submitted: Aug. 20, 1990

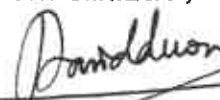
Date Extracted: Aug. 22-27, 1990

Date Analyzed: Aug. 22-27, 1990

RESULTS:

Sample No.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Oil & Grease (mg/Kg)
SCN-1	24	560	4400
SCS-1	85	7000	15000
BLANK	N.D.	N.D.	N.D.
SPIKED RECOVERY	90.3%	84.2%	-----
DUP SPIKED RECOVERY	91.1%	102.6%	-----
DETECTION LIMIT	2.5	5	10
METHOD OF ANALYSIS	5030/8015	3550/8015	503 D&E

ChromaLab, Inc.



David Duong
Senior Chemist



Eric Tam
Laboratory Director

URIAH ENVIRONMENTAL SERVICES, INC.
CHAIN OF CUSTODY

For Office Use Only

Project Name: CWS

Job# _____

2501 GRANT AVE SAN LARENZO, SUMP + REFUSE SAMPLING

SAMPLING COMPLETED: 12:20 AM/PM DATE: 8/17/90 BY: JEREMY BARTLETT

SITE NAME AND ADDRESS: CONCRETE WALL SAWING
2501 GRANT AVE, SAN LARENZO

REGULATORY AGENCY REPRESENTATIVE PRESENT: _____

REGULATORY AGENCY REPRESENTATIVE TITLE: _____

LAB USED: _____ LAB ON SITE? yes (no)

SAMPLE TO LAB VIA? Lab Rep Uriah Staff Courier _____

SAMPLE#	SOIL/WATER PRODUCT	ANALYZE FOR	Via EPA method	# OF CONTAINERS	SINGLE/COMPOSITE
<u>SCN1</u>	<u>SLUDGE (SOIL)</u>	<u>TOG, TPHG, TPHD</u>	<u>3550/8015</u>	<u>1</u>	<u>C</u>
<u>SCN2</u>	<u>SLUDGE (SOIL)</u>	<u>ARCHIVE</u>		<u>1</u>	<u>C</u>
<u>SCS1</u>	<u>SLUDGE (SOIL)</u>	<u>TOG, TPHG, TPHD</u>	<u>3550/8015</u>	<u>1</u>	<u>C</u>
<u>SCS2</u>	<u>SLUDGE (SOIL)</u>	<u>ARCHIVE</u>		<u>1</u>	<u>C</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

* OPEN WITH CARE; FLUID LIKELY TO BE PRESENT

SAMPLE RELEASED BY:

SAMPLE ACCEPTED BY:

Jeremy Bartlett 11:40 AM/PM, 8/20/90

Uriah Staff 11:40 AM/PM, 8/17/90

_____: ____ AM/PM, ____/____

_____: ____ AM/PM, ____/____

_____: ____ AM/PM, ____/____

_____: ____ AM/PM, ____/____

TURN AROUND: _____

RESULTS TO URIAH BY: _____