



Soil Sampling Report

Site: 6202 Christie Avenue
Emeryville, California

Date: January 14, 1991

WEST Staff: Charles A. Lyngstad

WEST Report No.: SR-2199

Soil samples were collected in clean brass sleeves. One end of the sleeve was first sealed with aluminum foil and then capped with a plastic endcap. For each sample collected, the open end of the sampling sleeve was driven into the soil and withdrawn full. The sleeve's contents were packed firmly to eliminate any headspace, and excess soil was removed. The open end of the sleeve was sealed and capped as described above. The capped ends of the sleeve were sealed with tape, and the sleeve was placed on ice.

The sampling date and individual sampling times are recorded on the attached chain-of-custody copy.

Four soil samples were collected from the stockpiled soils. The location of the sampling points is shown on the attached site map. All samples were collected at least 12 inches beneath the surface of the stockpile.

In general, the sampled soils consisted of lumpy clays mixed with loose sand. Petroleum-product odor was not detected in the sampled soils.

Robert G. Smith, Ph.D., P.E.

Director of Engineering

Charles A. Lyngstad

Staff Technician



Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services
 141 Suburban Road, Suite 0-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: H-0249-1
 Collected: 01/14/91 Comp.
 Received: 01/16/91 @ 1035
 Tested: As Listed
 Collected by:

ATTN: Troy Turpen
 Western Environmental Science & Tech.
 1546 Olive Drive, Suite 3
 Davis, CA 95616

Sample Description:
~~Project: #101-359 FELIX,~~
~~2A, 2B, 2C, 2D, 30110~~

AQUATIC TOXICITY

Species: *Pimephales promelas*
 Common Name: Fathead Minnow
 Supplier: Thomas Fish Co.
 x Length 3.1 cm x Weight 0.32 g
 Acclimation Period >10 days
 Acclimation Temperature 18-22 degrees C
 Dead in Acclimation Tank <1%

Test Type: Static 96 hr LC50
 Dilution Water: Freshwater (soft)
 Number per Tank: 10
 Max. Length: 3.5 cm Min. Length: 2.9 cm
 Max. Weight: 0.45 g Min. Weight: 0.24 g
 Tank Volume: 10 liters
 Hardness: 38 mg/L
 Alkalinity: 20 mg/L

DATE:	INITIAL				24 HOUR				48 HOUR				72 HOUR				96 HOUR				No
	DO	C	pH	Deg.	DO	C	pH	#M	DO	C	pH	#M	DO	C	pH	#M	DO	C	pH	#M	
01/24/91	8.8	18	7.5		8.2	20	7.4	0	8.0	18	7.0	0	8.9	18	7.3	0	8.9	18	7.3	0	0
01/25/91	8.8	18	7.6		8.3	20	7.3	0	8.2	18	7.3	0	9.0	18	7.2	0	9.2	18	7.4	0	0
01/26/91	8.8	18	7.6		8.2	20	7.5	0	7.9	18	7.3	0	8.8	18	7.2	0	8.7	18	7.4	0	0
01/27/91	8.6	18	7.5		7.8	20	7.2	0	7.5	18	7.2	0	8.5	18	7.3	0	8.8	18	7.3	0	0
01/28/91	8.7	18	7.6		7.8	20	7.2	0	7.6	18	7.2	0	8.3	18	7.3	0	8.8	18	7.3	0	0
01/29/91	8.7	18	7.6		8.7	20	7.2	0	8.7	18	7.1	0	7.5	18	7.2	0	7.8	18	7.3	0	0
01/30/91	8.7	18	7.5		7.4	20	7.2	0	7.1	18	7.1	0	7.7	18	7.2	0	7.9	18	7.3	0	0

REMARKS: Sample Alkalinity Before: 32 mg/L After: 30 mg/L
 @75 mg/L Hardness Before: 46 mg/L After: 44 mg/L
 L050: >75 mg/L L050

This material does not have an acute aquatic 96-hr LC50 less than 500 mg/l with fathead minnows and according to 22 Cal Adm Code Art 11 Sec. 88598 (4) is not hazardous or toxic by this criterion.



Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES
 Mary Havlicek, Ph.D., President

01/28/91
 H0249-1W.WR1/MH/ke



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
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CLIENT: Troy Turpen
Western Environmental Science & Tech
1046 Olive Drive, Suite 3
Davis, CA 95616

Lab Number : H-0249-1
Project : 101-339 FELIX

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
2A, 2B, 2C & 2D	Soil	Unknown	01/14/91	01/16/91			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Antimony	0.3	1.1	mg/Kg	EPA 7040	01/29/91	LR	1
Arsenic	0.1	2.3	mg/Kg	EPA 7061	01/29/91	LR	1
Chromium, Hexavalent	32.	ND	mg/Kg	CALC			
Lead	1.	34.	mg/Kg	EPA 7420	01/23/91	LR	2
Mercury	0.002	0.048	mg/Kg	EPA 7471	01/28/91	KS	3
Selenium	0.1	0.1	mg/Kg	EPA 7741	01/24/91	LR	1
Silver	0.1	0.8	mg/Kg	EPA 7760	01/25/91	LR	1
Thallium	3.	ND	mg/Kg	EPA 7840	01/24/91	LR	2
PRIORITY POLLUTANT METALS BY ICP							
Beryllium	0.5	ND	mg/Kg	EPA 6010	01/29/91	KS	
Cadmium	3.	ND	mg/Kg	EPA 6010	01/29/91	KS	
Chromium	3.	31.	mg/Kg	EPA 6010	01/29/91	KS	
Copper	3.	34.	mg/Kg	EPA 6010	01/29/91	KS	
Nickel	3.	31.	mg/Kg	EPA 6010	01/29/91	KS	
Zinc	3.	80.	mg/Kg	EPA 6010	01/29/91	KS	
Barium	0.5	180.	mg/Kg	EPA 6010	01/29/91	KS	

CCAS is Certified by CA Department of Health Services: Laboratory #131
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 01/23/91 by JLW using EPA 3050
(2) Sample Preparation on 01/24/91 by AR using EPA 3050
(3) Sample Preparation on 01/23/91 by JLW



01/31/91

MH/jmw/kes/wjm

CC: Jay Groh
Scott Co
1919 Market Street
Oakland, CA 93607

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

James White, Group Leader

Mary Havlicek, Ph.D.
President

543-2553



January 21, 1991
 Sample Log 2199

Sample: Composite 1

- 2A
- 2B
- 2C
- 2D

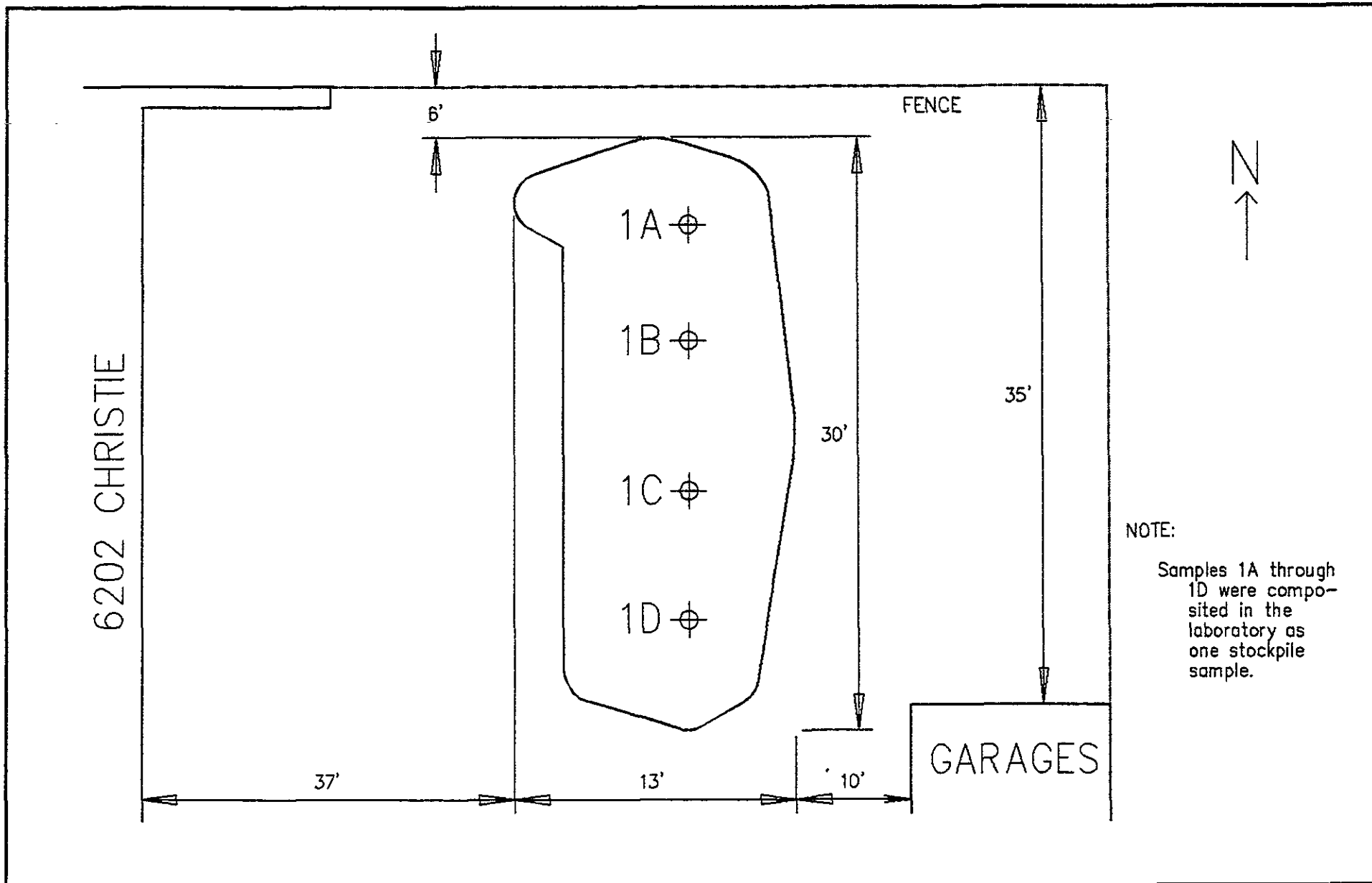
From : Felix
 Received 01/14/91
 Matrix : Soil

--all concentrations are units of mg/kg--

8080 - Organochlorine Pesticides

Parameter /	(Reporting Limit)	Measured Value
Aldrin	(0.01)	<0.01
alpha-BHC	(0.01)	<0.01
beta-BHC	(0.01)	<0.01
delta-BHC	(0.01)	<0.01
gamma-BHC	(0.01)	<0.01
Chlordane	(0.20)	<0.20
4,4'-DDD	(0.01)	<0.01
4,4'-DDE	(0.01)	<0.01
4,4'-DDT	(0.01)	<0.01
Dieldrin	(0.01)	<0.01
Endosulfan 1	(0.01)	<0.01
Endodulfan 2	(0.01)	<0.01
Endosulfan Sulfate	(0.01)	<0.01
Endrin	(0.01)	<0.01
Endrin Aldehyde	(0.01)	<0.01
Heptachlor	(0.01)	<0.01
Heptachlor Epoxide	(0.01)	<0.01
Toxaphene	(0.20)	<0.20





NOTE:
 Samples 1A through 1D were composited in the laboratory as one stockpile sample.

FELIX (SCOTT)
 6202 CHRISTIE
 EMERYVILLE, CALIFORNIA

Sample Log#: 2101
 DATE: 12/12/1990

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Drawn by: TGT

