

REGIONAL PARKS

EAST BAY REGIONAL PARK DISTRICT

LETTER OF TRANSMITTAL

To: ALAMEDA COUNTY HEALTH
DIVISION OF HAZARDOUS MATERIALS
ATTN: JULIET SHIN
50 SWAN WAY RM 350
OAKLAND CA 94621

Date: 6/28/93

BOARD OF DIRECTORS
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 Jocelyn Combs, Vice President
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Subject: EXPLORATORY BOREHOLE INVESTIGATION AT REDWOOD
SERVICE YARD & ANALYTICAL REPORT SOIL SAMPLES
FROM THE VST EXCAVATION

We are sending you herewith:

Prints, Tracings, Working drawings,
 Specifications, Correspondence, Photographs,
 ANALYTICAL REPORT SOIL SAMPLES

For the following action:

For your information, For your records, For your review,
 For your action, Please return, Please retain one copy
 and return the others
 with corrections and
 comments,

Comments: IF YOU HAVE ANY QUESTIONS, PLEASE CALL ME AT
635-0135, EXT 2311. THANK YOU

Drawing Number	Date of original or revision	Copies	Description

Parkland Design Department

BY: William Lee





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Engineering Science
1301 Marina Village Parkway
Suite 200
Alameda, CA 94501

Date: 21-JUN-93
Lab Job Number: 111239
Project ID: NC367.02
Location: East Bay Regional Park

Reviewed by: Teresa K. Morrison

Reviewed by: [Signature]

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LABORATORY NUMBER: 111239
CLIENT: ENGINEERING SCIENCE, INC.
PROJECT ID: NC 367.02
LOCATION: EBRP - REDWOOD YARD

DATE SAMPLED: 6/15/93
DATE RECEIVED: 6/15/93
DATE ANALYZED: 6/21/93
DATE REPORTED: 6/21/93

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ANALYSIS: LEAD
ANALYSIS METHOD: EPA 7420

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LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
111239-001	E1-17	5	mg/Kg	3
111239-002	E2-16	5	mg/Kg	3
111239-003	E3-16	8	mg/Kg	3
111239-004	E4-13	6	mg/Kg	3
111239-005	E5-7.5	8	mg/Kg	3

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

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RPD, %	<1
RECOVERY, %	93

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LABORATORY NUMBER: 111239
 CLIENT: ENGINEERING SCIENCE, INC.
 PROJECT ID: NC 367.02
 LOCATION: EBRP - REDWOOD YARD

DATE SAMPLED: 6/15/93
 DATE RECEIVED: 6/15/93
 DATE ANALYZED: 6/16,17/93
 DATE REPORTED: 6/21/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
 TVH by California DOHS Method/LUFT Manual October 1989
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
111239-001	E1-17	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)
111239-002	E2-16	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)
111239-004	E4-13	6+	370	6*	100	380
111239-005	E5-7.5	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)

+ Pattern does not match gasoline standard.

* Presence of this compound confirmed by second column; however, the confirmation concentration differed from the reported result by more than a factor of two.

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: MS/MSD

Spiked sample: 111239-001

RPD, %	2
RECOVERY, %	89



LABORATORY NUMBER: 111239
CLIENT: ENGINEERING SCIENCE, INC.
PROJECT ID: NC 367.02
LOCATION: EBRP - REDWOOD YARD

DATE SAMPLED: 6/15/93
DATE RECEIVED: 6/15/93
DATE ANALYZED: 6/17/93
DATE REPORTED: 6/21/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
111239-003	E3-16	12,000	80,000	390,000	230,000	1,100,000

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: BS/BSD

RPD, % 2
RECOVERY, % 98

ENGINEERING - SCIENCE, INC.
CHAIN OF CUSTODY RECORD

AB: Curtis & Tompkins

CLIENT: ENGINEERING-SCIENCE, INC. BERKELEY		PROJECT MANAGER: <u>B. Pucker</u>		PROJ. NO.:	NO. OF CONTAINERS	ANALYSES REQUIRED						TURNAROUND TIME	REMARKS
PROJECT NAME / LOCATION: <u>EAST BAY Regard Park, Redwood Yard</u>				<u>NL367.02</u>		TPH-GAS	BTEX	Total Lead					
SAMPLER(S): (SIGNATURE) <u>Henry Petrograd</u>													
SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION									
E1-17	6/15/93	1540	Soil	17' below ground surface		1	✓	✓	✓			5-Days	111239-1
E2-16	}	1525	"	16' " " "		1	✓	✓	✓			"	-2
E3-16		1530	"	16 " " "		1	✓	✓	✓			"	-3
E4-13		1550	"	13 " " "		1	✓	✓	✓			"	-4
E5-7.5	6/15/93	1600	Soil	7.5 " " "		1	✓	✓	✓			"	-5

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
<u>Henry Petrograd</u>	6/15/93 1805	<u>Teresa K. Morrison</u>	<u>Henry Petrograd</u>	6/15/93 1805	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
<u>Henry Petrograd</u>	6/15/93 1805	<u>Teresa K. Morrison</u>	6/15/93 1805		