Canonie Environmental Services Corp 1825 South Grant Street Suite 260 San Mateo, California 94402

Phone: 415-573-8012 FAX. 415-573-5654

88-149-07

February 15, 1989

Mr. Larry Seto Alameda County Health Care Services Agency Hazardous Materials Management 80 Swan Way, Room 200 Oakland, CA 94612

Soil Sampling Report and
Records of Correspondence with Regulatory Agencies
Southern Pacific Transportation Company Rail Yard
Fifth Avenue and Seventh Street
Oakland, California

Dear Mr. Seto:

Canonie Environmental Services Corp. (Canonie) is submitting this "Soil Sampling Report and Records of Correspondence with Regulatory Agencies" for the Southern Pacific Transportation Company Rail Yard at Fifth Avenue and Seventh Street in Oakland, California. This sampling report is in addition to a Tank Excavation Work Plan, permit application, and fees submitted to your office on January 17, 1989. Attachment A contains the laboratory results for samples from the site and our field activity log. Attachment B contains copies of the City of Oakland tank removal permit; correspondence with the California Regional Water Quality Control Board--San Francisco Bay Region that allows Canonie to discharge treated ground water from the tank excavation to the storm sewer, if required; and records of telephone contacts with the California Department of Health Services Toxic Substance Control Division indicating that they do not have jurisdiction over permitting for the ground water treatment system.

On February 13, 1989, Canonie took soil samples from four locations around the perimeter of the existing tanks as shown on Figure 1. Ground water was encountered at two to four feet below ground surface. The samples were retrieved from immediately above the ground water. The samples were analyzed only for total extractable petroleum hydrocarbons (TEPH) in order to assess hydrocarbon concentrations immediately around the tanks. As shown in Attachment A, the soil samples contained from 6,200 to 16,000 parts per million TEPH. Canonie contends that because hydrocarbon compounds exist in the surrounding soil, the removal of the four tanks as described in our January 17, 1989 Tank Excavation Work Plan will not further impact the site. Any further investigation will be performed after

the tanks are removed. Then Canonie will be better able to assess site conditions and prepare an investigation plan. An expeditious review and approval of this information and issuance of a tank removal permit would be greatly appreciated.

If your have any questions regarding this plan, please call.

Respectfully submitted,

Brian L. Wetzsteon

Assistant Project Engineer

Brian Wetzeteon

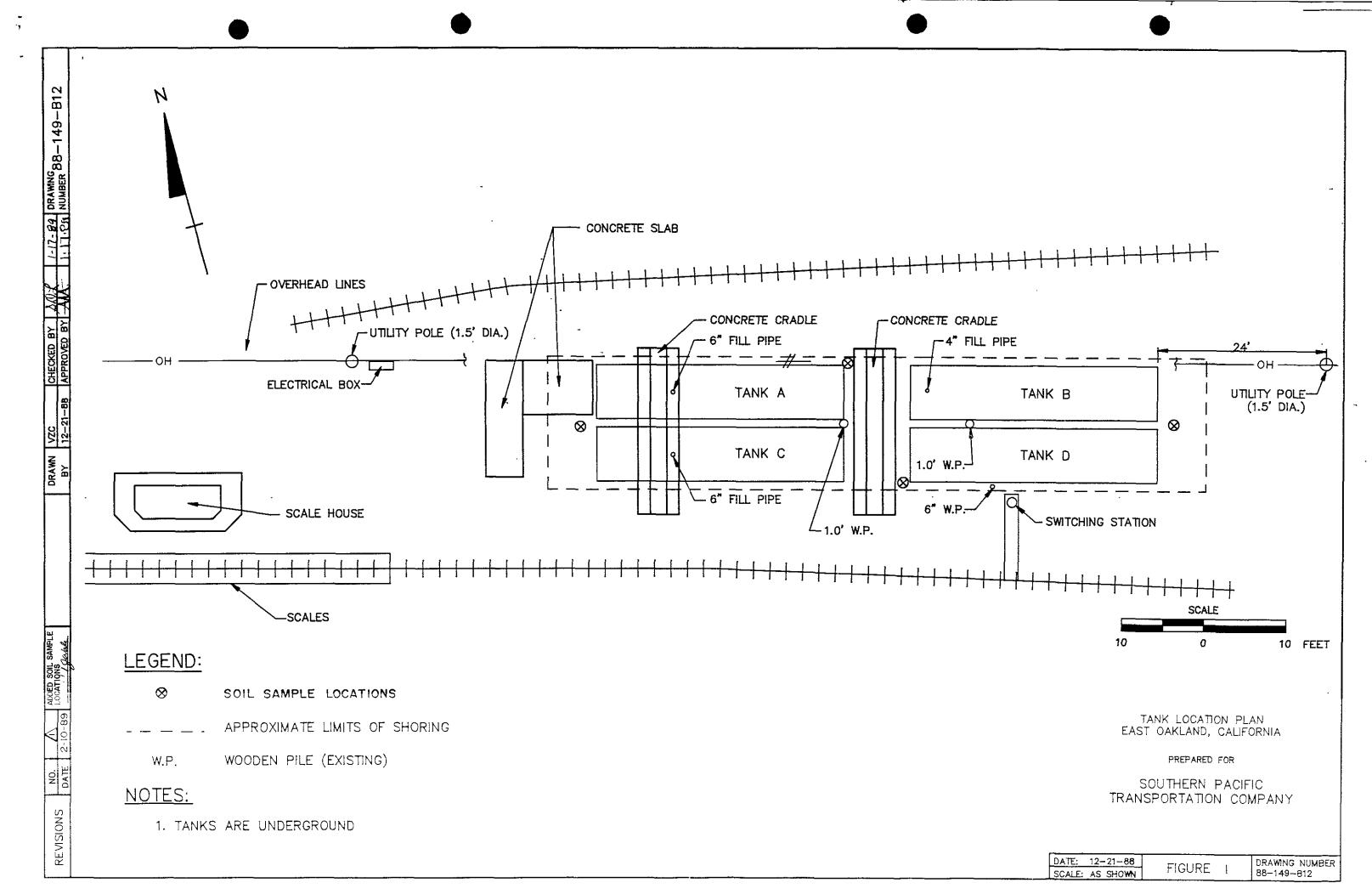
hance D. Caselbrucht by

Lance D. Geselbracht, P.E.

Project Manager

BLW/LDG/as

Attachments



ATTACHMENT A

28

CanonieEnvironmental

February 15, 1989

Canonie Environmental Services Corp. 212 Frank West Circle Suite A Stockton. California 95206 Phone: 209-983-1340

88-149-07-6129

Mr. Brian Wetzsteon Canonie Environmental 1825 S. Grant Street, Suite 260 San Mateo, CA 94402

Dear Mr. Wetzsteon:

Enclosed are the laboratory results for the samples submitted to the Canonie Environmental Analytical Laboratory.

Unless otherwise instructed by you samples will be returned or disposed of two weeks from the date of this letter.

If you have any questions please call John Buerger or me at (209) 983-1340.

Very truly yours,

Kenneth C. Wahl

Director of Laboratory Services

KCW/me

Enclosure

Laboratory Report for

Mr. Brian Wetzsteon Canonie Environmental 1825 S. Grant Street, Suite 260 San Mateo, CA 94402

February 15, 1989

Ву

Canonie Environmental 212 Frank West Circle, Suite A Stockton, CA 95206 (209) 983-1340

88-149-07-6129

02-15-1989 88-149-07-6129 Page 1

Table 1 Codes of Samples Received From SPT. Co. East Oakland Project: 88-149-07

Sampler ID	Date Sampled	Date <u>Received</u>	<u>Lab</u> <u>ID#</u>	Sample Type	Container
Analysis: Total Ext. F	etroleum Hydroc	arbons			
Sample 1-2' Sample 2-2' Sample 3-4' Sample 4-2'	02-13-89 02-13-89 02-13-89 02-13-89	02-14-89 02-14-89 02-14-89 02-14-89	835229 835230 835231 835232	Soil Soil Soil Soil	Brass Tube Brass Tube Brass Tube Brass Tube

Table 2 Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil Samples Received From SPT. Co. East Oakland Results in mg/kg

02-15-1989 88-149-07-6129 Page 2

Sampler ID:	Sample 1-2'	Sample 2-2'	Sample 3-4'	Sample 4-2'
Lab ID#:	835229	835230	<u>835231</u>	835232
Analyte(s) Total Extractable Petroleum	6200.	16000.	8900.	11000.
Hydrocarbons - assume TP	4d		•	

Analyst Checked by

Project #	88-149-07-6129	
	eted 2-15-1989	

Reference Methods

Total Extractable Hydrocarbons

	Preparation	Analysis
Water .	EPA 3510 EPA 3520	✓Guidelines for Addressing Fuel Leaks ¹
Soil	EPA 3540 ✓EPA 3550	

 Eisenberg, Don M., et al, "Guidelines for Addressing Fuel Leaks", California Regional Water Quality Control Board, San Francisco Bay Region, Sept. 1985.

ANALYST BTS

PROJ NO PROJECT NAME	T				7	//	,	7	, ,			7 7 7	
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DATE SAMPLEID	OF CON- TAINERS	ZZ Z			//	//,	//	//	//	//		REMARKS	
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2-13-89 SAMPLE 2-2'	1	Х					_		-			BRASS TUBE	
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Brian Vet steon 2-13-89 2 PM	,)	Len	ar KS	2	4	HR		T74	T				
Relinquished by (signature) Date/Time Received by: (signature)												DERIAN WETESTEON	
Relinquished by (Signature) Date/Time Received for Laborator (Signature)	y by.	Car	onie	Envi	ronn	nental.	212	Frank	Wes	t Cir	cie.	Suite A, Stockton, CA 95206	

835229-835232

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2-13-81	SAMPLE	2-21	30	<u> </u>	X							-		BRASS TURE
2-13-84	SAMPLE	3-4'	31		X.									BRASS TURE
2-13-87	SAMPLE	4-2'	32	1	х									RRASS TORF
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Relinquished	by (Signature)	Date/Time	Received for Laboratory (Signature)	1							•			
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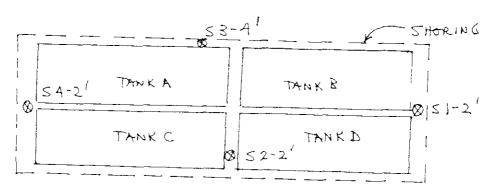
Canonie Engineers

Daily Field Activity Log

PROJEC'	T No.	<i>88-1</i>	49	-07	_
DATE	2-	13-8	۶		_
PAGE	/	OF	/		

PROJECT NAME_	5PTC0	- EAST OAKLAND	sty 7 thetreets	
FIELD ACTIVITY		SOIL SAMPLING		
WEATHER	SUNNY		LOGGED BY BLW	
DAILY ACTIVITIES	S AND EVENTS:			

- 10 AM . BRIAN WETZSTEON AND BILL YOUNG TRAVEL TO E. OAKLAND SITE TO TAKE SOIL SAMPLES AROUND TANKS TO SATISFY ALAMED A COUNTY AND RECENE OUR PERMIT.
 - NSED PICK AND SHOVER TO DIS A HOLES DOWN TO WATER AND SAMPLE SOIL AT THIS DEPTCH.
 - · HIT WATER AT 2 FEET DEEP IN HOLES 1,2, AND 4.
 - * HIT WATER AT 4 FEET DEED IN HOLE 3.
 - WATER AND SMELLED OF HYDROCARBONS
 - SOIL OUTSIDE THE TANKS.
 - · REQUESTED 24 HR TAT. ON SAMPLES.
 - · ALL SAMPLES WERE TAKEN OUTSIDE OF THE TANKS BUT INSIDE OF THE SHORING LIMITS.





ATTACHMENT B

		Excevetion Permit	Granted	No
,	CITY OF	OAKLA	ND	
Pern	nit to Excavate and Install, Repa	ir, or Remove	Inflammable Liquid	Tank Permit
	•	Oakland Californi		B. 1. 9209
PERMISSION	IS HEREBY GRANTED TO INNEXX remove	VANVIV Garatia	AA 1	February 8, 1989
		AMERICA CONTINUE	tank and excavate commencing.	feet insidaroperty was
on the side of	& Fact 7th Ct Str	ser snuefeet_	of	Street
	w nast /th sereer	/ - ·		
Owner Southern Pacif	ic Trans. Co.	(One Verland	Plaza, Rm. 1007	5/1 0005
Applicant Canonie Envi	ronmental Add	San Franci Iron 1825 So. G	sco, CA 94105	
Dimensions of street (sidewalk)	surface to be disturbed		· ·	244 Prone 273-8012
Romarks: The tanks are	well away from sidewalks and	within Southe	rn Pacific property	Gallons, each.
	This Parmit is annual to		Property	-
	This Permit is granted in according to the second owner hereby agrees to remove tanks on disconting. When installing, removing or repairing to	1118868 AN 1100 AS 1116	. Iff I de al more a	N-OENTE
	When installing, removing or repairing ta	nks, no open flame to	be on or near premises.	
Approved			l N	1.1
Approved	Fire Mershel Dreinage Division Engineering Dept.			
	Drainage Division Engineering Dept.			
	•		w	11_
EXCA	ATING PERMIT		W	E
	with Ord. No. 278 CMS, Sec. 6-2.04			_
	square feet of digging or removal granted.		S	
he recalpt of \$	special deposit is hereby acknowledged.	CERTIFICA	TE OF TANK AND EQ	UIPMENT INSPECTION
GENERAL DEPOSIT.		Inspected and p	assed on	
	BUREAU OF PERMITS AND LICENSES.			
				Fire Marshal
spection Fee Paid	\$ 50.00 ck#03466 rec#6	00700		
actived by G. M. Johns	OII			
Fire)	PREVENTION BUREAU	When where to	vering Tanks, Above Cert	ificate Must Be Signed.
THI:	S PERMIT MUST BE I BET AN WILL	T MARKET TO THE TOTAL TO	inspection notify Fire Prevention	Nt Buryan, 273-3851
30 58 (6.67)	S PERMIT MUST BE LEFT ON TH	E WORK AS A	UTHORITY THEREF	OR.

City of Oakland CASH RECEIPT

Cash Receipt#	609	79	9

Cash Receipt Voucher # C R

1133			
		Cash	C
	ł	Check	

		£ .
Payment Received from;	Caxone	Environmental

DIRECT CASH CREDITS

Item	Remarks	Fund/SF	Organization	Account	Proj/Grant/ Cost Ctr/WO	Yr	Loc	Task	Dept Specific	Fixed Asset No	Trans ID	Revenue Source	Amount 4
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Auxiliary Receipt Reference #/Explanation: Thomas 4-7000 gol. Inhs

a furthern Printing

ACCOUNTS RECEIVABLES

Item	Customer Name/Description	Batch Number	Check Number	Customer Number	Invoice Number	Amount
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L					SUBTOTAL	•
	, /)	Received by:	Entered by	y:	TOTAL	50.00

Entered by: Received by: Treasury Section **RRCC** or Grant Fiscal Attairs Received by

CanonieEnvironmental

AUTHOR

January 5, 1989

Canonie Environmer fai Se vice still 1825 South Grant Street Suite 260 San Mateo California 94462

Phone 415 573 8012

88-149-07

Ms. Lisa McCann California Regional Water Quality Control Board San Francisco Bay Region 1111 Jackson Street, Room 6040 Oakland, CA 94607

Information on Underground Tank Removal
Southern Pacific Transportation Company Railyard
Oakland, California

Dear Ms. McCann:

Following up on our telephone conversation on December 29, 1988, we wish to provide you with the following information prior to initiating the underground tank removal project.

Canonie Environmental Services Corp. (Canonie) has been contracted by Southern Pacific Transportation Company (SPTCo.) to remove several underground storage tanks from their railyard in Oakland, California. Due to the elevated ground water level in the area at this time of year, we anticipate that the excavation may contain water. In order to investigate the surrounding soil at the time of tank removal, we may want to dewater the excavation. We have been informed by SPTCo. that the tanks' former content was diesel fuel. It is our intention to pump this water into a holding tank modified as an oil separation unit. This water will be decanted and then filtered through a granular activated carbon (GAC) unit. We consider such a system adequate to treat dissolved components of diesel fuel and anticipate that the level of volatile organic compounds (VOCs) of the treated water will be nondetectable. The treated water will then be discharged into the storm sewer system provided that it meets RWQCB requirements (VOCs less than 0.5 ppb and PCBs nondetectable).

The water will be tested prior to treatment using EPA Method 8080.3 to ascertain that the contents of the tank do not include PCBs. (If PCBs are detected, a revised treatment/discharge plan will be forwarded prior to initiating extraction. This sample will also be analyzed for diesel fuel using Methods 3510 and GCFID; and for benzene, toluene, xylene, and ethylbenzene (BTX&E) using Method 8020 (in accordance with the RWQCB's June 2, 1988 recommendations).

After several hundred gallons of water have been treated, a water sample will be collected to verify performance. These samples will be analyzed for diesel fuel and for BTX&E. During sample analyses (24-hour turnaround) the system will not be operated. The results of the analyses will be

verbally transmitted to the RWQCB, and the system will begin treatment operations upon receiving permission to continue. Other water samples will be analyzed periodically during the system's operation to verify that performance is maintained.

It is anticipated that less than 20,000 gallons of water will require treatment. We have attached a copy of the design calculations showing the required amount of GAC for system operation.

If you have any questions, please call us.

Very truly yours,

Alan L. Muellerleile Project Engineer

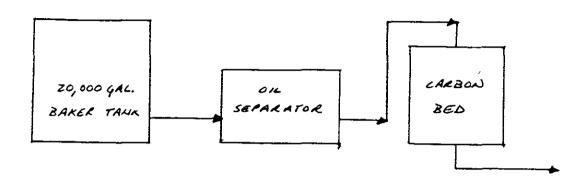
Lance D. Geselbracht, P.E. Project Manager

ALM/LDG/as

Attachments

Canonie

By PGL Date	1/3/88 Subject	SONTHERN	PACIFIC	Sheet No.	
Chkd. By Date				Proj. No	88-149-09
				1/4" X 1/4	••



ASSUME: RESIDUAL DIESEL FROM SEPARATOR -- 100 mg/L

CARBON HOSORBTION CAPACITY FOR DIESEL -- 100 mg/kg

CARBON WT. - 30 165/ft³

- · CARBON REQUIRED TO TREAT 20,000 GALLONS

 (20 1103 GAL) (3.785 1/GAL) (100 Mg/L) (2.2 14/kg) / (100 Mg/m) (30 14/ft) (#0 mg/L)

 = 5.55 ft3 = 42 GALLONS OF CARBON
- · ACTUAL CARBON-USE ASSUMED TWICE CALCULATED, USE 2-55-GAL PRE-FAB CARBON BEDS.
- · MAK. FLOW RATE FOR 30 MINUTE EMPTY BED CONTACT TIME

 (110 GALX(30 MIN) = 3.7 GPM
- TIME OF DISCHARGE (20,000 GAL)(DAY/1440 MIN)/(3.7 GPM) = 40AY.



TELEPHONE CALL RECORD

DATE_1/	9/89 TIMI	<u> 11:15</u>	PROJECT NO	88-	149-07	 	
NAME _	E. Oaklan	<u>d</u>	TELEPHONE NO.				
							-
TO <u>A.</u>	М		OF	·			
FROM	Lisa McCan	n	OF	:	RWOCB		

She says work plan is OK but requests location map of cross-street I.D.



LEPHONECALL RECORD

DATE 2/14/89 TIME 8:30 PR	OJECT NO. <u>88</u>	-149-07	
NAME <u>SP Tanks-Oakland</u> TE	LEPHONE NO		2.14.89 (Q-CT) 88-149-0
TO A. Muellerleile	OF _	Canonie	: MAJEN DIAHTSGE
FROM Lisa McCann	OF	RWQCB	

- -We spoke about RWQCB approval of our water discharge plan in Oakland
- -I told her that Alameda Co. was requesting letter stating approval
- -She says this is not done and she does not want to set precedent
- -She will call Mary Jo Meyers of Ala. Co. Hith. Dept. and tell her that RWQCB approves our plan
- -I asked about DHS involvment in water discharge -Lisa said that if there are no hazardous levels, DHS will not be involved - DHS levels are generally higher than RWQCB. She said she would mention this to Alameda Co.

NOTE: THIS RECORD IS TO BE RETAINED IN THE FILE.



LEPHONE CALL RECORD

DATE_	2/14/89_TIME9:25	PROJECT NO	88-149-07
NAME	SPTCo-E. Oakland	TELEPHONE NO.	(415)540-3401
ТО	Steve Belluomini	OF	DHS Toxic Substances Control Division
FROM	Brian Wetzsteon	OF	Canonie

- I told Steve we are removing underground fuel storage tanks in Oakland and there may be water from the excavation which contains hydrocarbons. In order to dewater the excavation we want to pump into a tank, seperate the product from the water, and polish the water with carbon (if necessary) before discharge to the storm drain.
- I asked if we need a permit from the DHS for any of this work.
- Steve said that the tanks are not covered by RCRA and the groundwater treatment and discharge is under the Regional Water Quality Control Board's jurisdiction.

The DHS is not interested in any part of this project.

NOTE: THIS RECORD IS TO BE RETAINED IN THE FILE.





DATE 2/14/89 TIME 3:20	PROJECT NO	88-149-07
NAME SPTCo E. Oakland	TELEPHONE NO.	(415)540-3401
. Debent Feether	0.5	Dalle Tanka Di ini
TO Robert Feather	OF	DoHS Toxics Division
FROM Brian Wetzsteon	OF	<u>Canonie</u>

Robert Feather is the permitting officer of the DHS toxic substance control division.

I asked if we need a permit to treat hydrocarbon contaminated groundwater before discharge to the storm drain from DHS. He said as far as he knew only the RWQCB will regulate that kind of activity. He said he will look into it further and call back.



TELEPHONE CALL RECORD

DATE_	2/15/89 TIME 9:00	_ PROJECT NO88	I-149-07		
NAME _	SPTCo E. Oakland	_ TELEPHONE NO	(415)540-3401	······································	
то	Brian Wetzsteon	OF _	Canonie		
FROM	Robert Feather	OF	DHS Toxic Substances	Control	Division

Mr. Feather called to say that he checked with the permitting people in his office and with the DHS Alternative Technology Division in Sacramento. All of these people said the RWQCB has jurisdiction in this case and DHS does not want anything to do with permitting this water treatment system.