

SUBSURFACE INVESTIGATION REPORT

PREPARED FOR

WILLIG INVESTMENT COMPANY 1465 SOUTHDOWN ROAD HILLSBOROUGH, CALIFORNIA 94010

FOR PROPERTY LOCATED AT

415 HESTER STREET SAN LEANDRO, CALIFORNIA

PREPARED BY:

BLYMYER ENGINEERS, INC. 1829 CLEMENT AVENUE ALAMEDA, CALIFORNIA 94501

JANUARY 4, 1990





January 12, 1990 BEI Job No. 89560

Mr. Ed Willig WILLIG INVESTMENT CORPORATION 1465 Southdown Road Hillsborough, CA 94010

SUBJECT:

CONTAMINATION INVESTIGATION

415 HESTER STREET

SAN LEANDRO, CALIFORNIA

Dear Ed:

Enclosed please find copies of reports for the subject work. As noted in the report, these results are required to be reported to the Alameda County Department of Environmental Health.

As you requested, copies of the report have been mailed to Ed Willig at Carr, McClellan, Ingersoll, Thompson and Horn and Gene Ellis at Thermo King.

Please call if BEI can be of further assistance.

Cordially,

BLYMYER ENGINEERS, INC.

Sames C. Falbo

Environmental Specialist

JCF/ds

Attachments

cc: Mr. Ed Willig, Jr.

Mr. Gene Ellis

SUBSURFACE INVESTIGATION REPORT

PREPARED FOR

WILLIG INVESTMENT COMPANY 1465 SOUTHDOWN ROAD HILLSBOROUGH, CALIFORNIA 94010

FOR PROPERTY LOCATED AT

415 HESTER STREET SAN LEANDRO, CALIFORNIA

PREPARED BY:

BLYMYER ENGINEERS, INC. 1829 CLEMENT AVENUE ALAMEDA, CALIFORNIA 94501

JANUARY 4, 1990

TABLE OF CONTENTS

	P.A.	AGE
I.	INTRODUCTION	
	o Background and Scope of Work Site Conditions	1
II.	DATA ACQUISITION	
	PHASE I:	
	o Soil Sample Collection and Analysis	3
	PHASE II:	
	o Soil Sample Collection and Analysis	4
III.	DATA ANALYSIS	
	O Site Stratigraphy and Groundwater Flow O Soil Sample Analytical Results O Extent of Contamination	5 5 5
IV.	CONCLUSIONS	7
٧.	RECOMMENDATIONS	8

TABLES

TABLE I: Summary of Soil Sample Analytical Results

LIST OF FIGURES

FIGURE 1: Area Location Map

FIGURE 2: Site Plan with Bore Locations

APPENDICES

APPENDIX A: Bore Logs

APPENDIX B: Soil Sample Analytical Results - Phase I

APPENDIX C: Soil Sample Analytical Results - Phase II

I. INTRODUCTION

Background and Scope of Work

On November 3, 1989, Mr. Ed Willig retained Blymyer Engineers, Inc. (BEI) to install soil bores at 415 Hester Street, San Leandro, California (Figure 1). This work was required because waste oil had been disposed of directly to the soil on a portion of the subject site. BEI was retained to confirm the presence of contamination in the soil and groundwater and to attempt to define the extent of contamination.

The following tasks were completed during BEI's investigation:

Phase I:

Four (B-1 to B-4) were installed. Soil samples were collected, composited and analyzed for organic lead, diesel and motor oil hydrocarbons, and for benzene, toluene, xylenes, and ethylbenzene (BTXE).

Phase II:

Hand augering was conducted near an existing aboveground waste oil tank and soil samples obtained. All soil samples were analyzed for diesel and motor oil hydrocarbons, organic lead, BTXE and Freon-113.

Site Conditions

The regional site location is shown in Figure 1. The subject property is bounded to the south by a manufacturing facility, to the west by a refrigerated truck maintenance facility, to the north by Hester Street, and to the east by a loading facility.

Interstate 80 is 1/2 mile northeast of the site. In general, the area is industrial and commercial.

The subject property consists of one parcel at 415 Hester Street, and is currently occupied by Thermo King of Northern California (Figure 2).

Heavy oil staining is visible along the eastern fenceline as indicated in Figure 2, in the area of the aboveground waste oil tank.

II. DATA ACQUISITION

PHASE I:

Soil Boring Installation

Drilling was performed in November, 1989, by Gregg Drilling, under the supervision of a BEI geologist. The locations of soil bores B-1 through B-4 are indicated in Figure 2. The bores were drilled using an 8-inch hollow-stem auger drill rig with a modified California split-spoon sampler. All drill cuttings were stored in 55 gallon drums for later disposal.

Four 15 foot deep soil bores were drilled. Upon completion, the bore holes were grouted with cement.

Soil Sample Collection and Analysis

Soil samples were collected at depths of 5, ***10 and 15 feet from each bore. Drill cuttings were described on site by a BEI geologist (Appendix A) and samples were packaged for delivery to NET Pacific (NET), a State-certified laboratory, using proper chain-of-custody protocols. Samples were collected in a series of three brass liners. One liner from each sample depth was packaged for analysis. The liner ends were covered with aluminum foil, capped with plastic end caps, and wrapped with duct tape. All samples were placed in an ice chest with blue ice for delivery to NET. All samples above the water table were analyzed for total petroleum hydrocarbons as motor oil (TPH-mo) and as diesel (TPH-d), BTXE and organic lead. The three soil samples from each bore were composited for analysis. The soil sample

analytical results are presented in Appendix B and $\operatorname{summarized}$ in Table I.

PHASE II:

Boring Installation

Two hand augered exploratory borings were drilled on November 16, 1989 by Blymyer Engineers, Inc. The locations of bores HA-2 are shown in Figure 2. All drill cuttings were backfilled into the bores.

Free standing oil was observed in both hand augered bores upon completion.

Soil Sample Collection and Analysis

Soil samples were collected at a 5-foot depth from each hand augered bore using a hand-driven sampler. Each sample was described on site by BEI's geologist and then packaged for delivery to NET.

Samples were collected in clean, brass liners. The ends of the liners were covered with aluminum foil, capped with plastic end caps and wrapped with duct tape. All samples were placed in an ice chest with blue ice for delivery to the laboratory. Chain-of-custody documentation accompanied the samples to the laboratory. All soil samples were analyzed for TPH-d, TPM-mo, BTXE, organic lead and Freon 113. Soil sample analytical results are presented in Appendix C and are summarized in Table I.

III. DATA ANALYSIS

Site Stratigraphy and Groundwater Depth

Soils data collected during drilling indicate that the site is underlain by silty clay and bay mud. Groundwater depth is approximately 12 feet below grade.

The assumed groundwater flow direction is west, towards the San Francisco Bay.

Soil Sample Analytical Results

Soil sample analytical results for TPH-d. TPH-mo, BTXE, and organic lead are summarized in Table I. Only bores HA-1 and HA-2 were analyzed for Freon-113.

The composite samples B-1 through B-4 did not contain concentrations above detection limits for any of the parameters, except for low concentrations of diesel in B-2, B-3, and B-4. The samples from bores HA-1 and HA-2 contained high concentrations (over 1,000 parts per million (ppm) of motor oil and low concentrations of organic lead. The samples from bores HA-1 and HA-2 did not contain detectable concentrations of BTXE, diesel, or Freon-113.

Extent of Contamination

The soil is contaminated with motor oil hydrocarbons in concentrations greater than 1,000 ppm (the Regional Water Quality Control Board established action level) in the vicinity of the

aboveground waste oil tank. In addition, the sample from bore HA-1 contains organic lead at a level that is less than the Total Threshold Limit Concentration (TTLC) of 1,000 mg/kg for lead as established in CAC Title 22.

The California Administrative Code, Title 22, Section 66699(13), states that any soil is hazardous which contains a metal concentration exceeding its Soluble Threshold Limit Concentration (STLC) when analyzed by the Waste Extraction Test (WET) or at a concentration exceeding its listed TTLC concentration when analyzed for the total metal. The organic lead result of 8.7 mg/kg for the sample from bore HA-1 is below its TTLC value. A general "rule of thumb" is that if soil contains a total metal in concentrations less than 10 times the STLC value, the soil concentration would most likely be below the STLC value, if it were to be analyzed using the WET. Therefore, sample HA-1 would most likely have an analytical result below STLC value for lead.

The contamination appears to be located primarily in the southeast corner of the property. Bores to the north of the waste oil tank area exhibited no contamination from motor oil and low amounts of diesel. However, hand augering conducted in the area immediately adjacent to the aboveground waste oil tank indicated free oil at a depth of approximately one foot below grade. Soil samples obtained from each hand auger location contained high levels of TPH as motor oil. Since these bores were drilled near the southern property line, it is assumed that the oil contamination extends off-site. Contamination has also not been defined in the eastern direction at this time.

IV. CONCLUSIONS

- The site is located in a combined industrial/commercial area of San Leandro, California.
- o The water table appears to be approximately 12 feet below grade surface.
- The assumed groundwater flow direction is to the west towards San Francisco Bay.
- o An above-ground waste oil tank is located adjacent to the southern property line.
- o Soil samples taken from bores installed to the north of the aboveground waste oil tank contained minor amounts of contamination.
- o Free standing oil was present in two hand augered bores near the waste oil tank.
- o Soil samples taken from the hand augered bores exhibited high concentrations of TPH as motor oil.
- o The client reports that dumping of waste oil had occurred on the property in previous years.

V. RECOMMENDATIONS

This report is required to be submitted to the San Francisco Bay Regional Water Quality Control Board and the Alameda County Department of Environmental Health because of the free product and high concentrations of motor oil in soil samples collected from the hand augered bores. The County will most likely require an investigation into the extent of contamination and remediation of the site. Further soils bores should be installed to collect soil samples for laboratory analysis, and groundwater monitoring wells should be installed to determine whether groundwater has been impacted at the site. Once contamination is defined, appropriate remediation measures can be designed.

TABLE I
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS (mg/kg)

SOIL SAMPLE I.D. (BORE NO. DEPTH)	РЬ	В	T	Х	E	TPH-d	TPH-mo	FREON-113
B-1 5'-15' Comp	ND	ND	ND	ND	ND	ND	ND	N A
B-2 5'-10' Comp	ND	ND	ND	ND	ND	1.2	ND	N A
B-3 5'-10' Comp	ND	ND	NĐ	ND	ND	1.1	ND	N A
B-4 5'-10' Comp	ND	ND	ND	ND	ND	1.3	ND	N A
HA-1 North	8.7	ND	ND	ND	ND	ND	83,000	ND
HA-2 West	1.1	ND	ND	ND	ND	ND	2,200	ND

Pb = Organic Lead

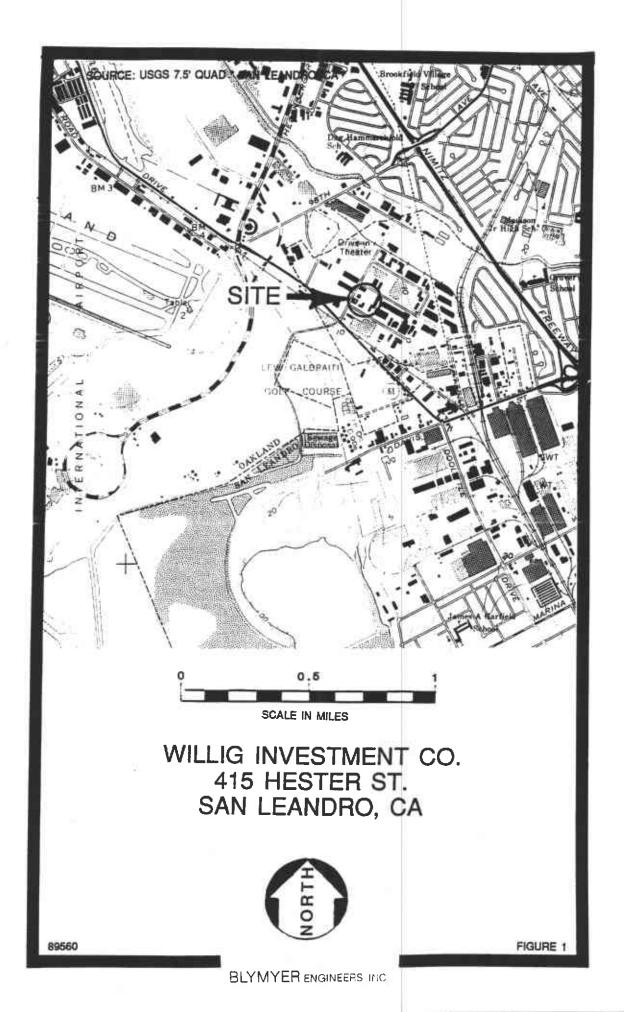
B = Benzene T = Toluene

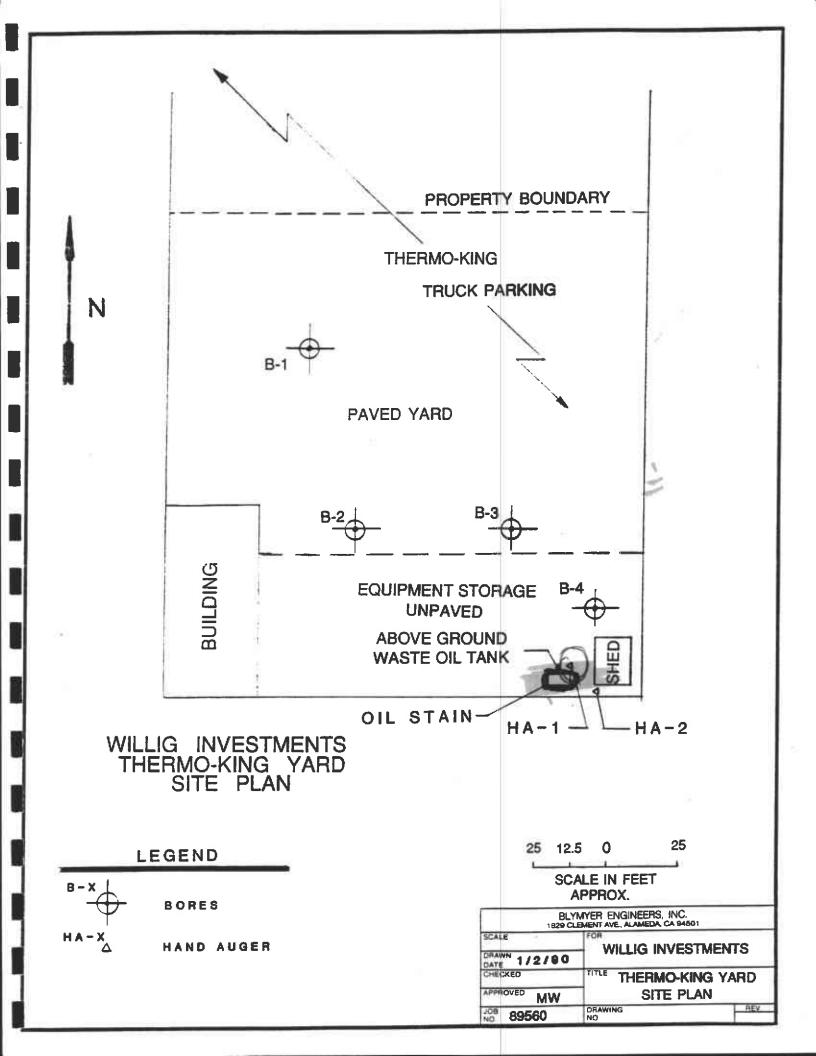
X = Xylenes, Total

E = Ethylbenzene

TPH-d = Total Petroleum Hydrocarbons as Diesel
TPH-mo = Total Petroleum Hydrocarbons as Motor Oil

NA = Not Analyzed ND = Not Detected





Client: WILLIG INVESTMENTS

Site: THERMO-KING

Oriller: GREGG DRILLING Logged by: MIKE WEBER Exploratory Bore Log

Date: 11/16/89

Job#: 39560

Pig.

Diameter: Boring No.: 1

roddeg pri: WIKE MEREK		2011	tiñ iac				
Description a	and Cl	assifice	tion		rs t.	<u>a</u>	Motos
Description and Remarks	Color	Blow Counts	Consist.	Sort Type	Depth	Sample	Notes OVM
4" ASPHALT COURSE GRAINED SUBGRADE	DARK BROWN TO				- 1 -		0 0
	CEPPO	6 10 17		CL/ML			.2
SILTY CLAY WITH 1/4" LAYERS OF RICH SAND AND SOME LARGER FRAGMENTS OF VOLCANIC ROCK:			MOREBUTELY		- 5 -		0
SLIGHTLY DAMP			MODERATELY PLASTIC	CL			
AS ABOVE		5 8 12		-	- 10 - 	X	0
MORE ROCK FRAGMENTS VERY FEW SAND STRINGERS		5 ₇₁₂			 - 15 -	X	H ₂ O TABLE
END OF HOLE						1	
					- 20 -		
\$ 1						j	
					- -		
					- 25 - -	į	
						1	
					- 30 -		

Client: WILLIG INVESTMENTS

Bite. THERMO-KING

Oritier GREGG DRILLING Loaged by, MIKE WEBER Eliptoratory Bore Log

Date: 11/16/89

±00° 89560

€ामु

Diameter

Boring No.: 2

			ng n				
Description			ile File	Mana			
Description and Femarks	Color	Blow	Consist	Soil Type	Depth	Sámple	Notes ovm
4" ASPHALT COURSE GRAINED SUBGRADE	DARK BROWN TO BLACK						0
RUBBLE AND TERRA COTTA PIPE FRAGMENTS		£ 11	MODERATELY PLASTIC	CL/ML			
SILTY CLAY WITH 1/4" LAYERS OF RICH SAND AND SOME LARGER FRAGMENTS OF VOLCANIC POCK		14	j		- 5 - 		0
SLIGHTLY DAMP		4		CL			
SMALL ROOTLETS IN CLAF		4 6 7			- 10 -	X	ð
END OF HOLE							EOH
			-		20		
					 - 25 -		
C					- 30 -		

Chent: WILLIG INVESTMENTS

Site THERMO-KING

Driller GREGG DRILLING Logged by: MIKE WEBER Exploratory Sore Log

Date 11/16/89

JOD# 89560

Fig

Diameter:

Boring No. 3

Description			ր 			
Description and Remarks	Čolor	Blow Counts	Consist	Sori Type	Depth d	0 0AW
4" ASPHALT COURSE GRAINED SUBGRADE RUBBLE (NO PIPE FRAGMENTS)	DARK BROWN TO BLACK	5	MODERATEL'I PLASTIC	CL/ML	1.	Ü
SILTY CLAY WITH 1741 LAYERS OF RICH SAND AND SOME LARGER FRAGMENTS OF VOLCANIC ROCK SLIGHTLY DAMP		ີ 5 5	FEHOLIC			0
		4 6 9	₩	CL	10	ō
END OF HOLE					15	EOH
					20 1	
,					- 25 -	
					- 30 i	

Client WILLIG INVESTMENTS

Site THERMO-KING

Orniter GREGG DRILLING Logged by: MIKE WEBER

Exploratory Bore Log

Date 11/16/89

JOD# 89560

Rig

Diameter

Boring No.: 4

Description		0	ple	Notes			
Description and Remarks	Color	Blow	Consist	Soil Type	Depth	Sample	Notes 0YM
NO ASPHALT REDISAND SUBGRADE TO 2"	DARK BROWN TO	6 11	MODERATELY PLASTIC	CL/ML	1 -		û
SILTY CLAY WITH 174" LAYERS OF RICH SAND AND SOME LARGER FRAGMENTS OF VOLCANIC ROCK SLIGHTLY DAMP					5 -		9
		5 ਰੇ ਰੇ	₩	CL	- 10 -	习	ů
END OF HOLE							EOH
e a					15 -		
1		ma			-		
		THE RESERVE L. P.					
					20 -		
					25 -		
-					Ι Ξ		
					30		



59560 NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Chris Falbo Blymyer Engineers, Inc 1829 Clement Ave Alameda, CA 94501

12-05-89

NET Pacific Log No: 8625

495 Series No:

Client Ref: Proj# 89560

RE: Analytical Results for "Willig Investments" Received 11-17-89.

Dear Mr. Falbo:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack

Laboratory Manager

/sm

Sample Custody Document Enc:

KEY TO ABBREVIATIONS and METHOD REFERENCES

: Less than; When appearing in results column indicates analyte

not detected at the value following, which supercedes the

listed reporting limit.

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis

(parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb): Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis

(parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/am : Micramhos per centimeter.

Method References

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste". U.S. EPA SW-846, 3rd edition, 1986.

* Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated reporting limits by the dilution factor.

December 5, 1989 495/ LOG NO 8625 - 3 -

SAMPLE DESCRIPTION: HA-1 north 11-16-89 1100 LAB NO.: (-39894)

mg/Kg	
IIIg/ Kg	
ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	
	ug/Kg ug/Kg ug/Kg ug/Kg

SAMPLE DESCRIPTION: HA-2 west 11-16-89 1115 LAB NO.: (-39895)

Parameter	Reporting <u>Limit</u>	Results	<u>Units</u>
Organic Lead	0.05	1.1	mg/Kg
METHOD 8010 DATE ANALYZED DILUTION FACTOR* Freon 113 PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD 8020		11-27-89 1 ND 100 12-01-89	ug/Kg .
Benzene Ethylbenzene Toluene Xylenes, total PETROLEUM HYDROCARBONS EXTRACTABLE (SOIL) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3550	25 75 25 75	ND ND ND ND 10 11-21-89 11-27-89	ug/Kg ug/Kg ug/Kg ug/Kg
as Diesel as Motor Oil	1 10	ND 2,200	mg/Kg mg/Kg

BEI Field Services

1829 Clement Avenue Alameda, CA 94501

CHAIN OF CUSTODY RECORD

PROJ NO 8956	O C	1	<u> </u>	- SL-C)	N.C.	TXE	٠,	(396)	ţū)	5/8270						
SAMPLER	S (Signatu	и ^t е	7	faille	<u> </u>	NO OF CON- TAINERS	gasoline + BTXE	w (esei	ase (SMS)	4 624/82	Semi-VOC (EPA 625/8270	1110	BIVE	ا ا			REMARKS
DATE	TIME	CONTP.			PLE LOCATION		TPH as 92	TPH as d	Oil & Gre	VOC (EP./	Serni-V0	To At					·
11/16	11:00a		X	North	of wo Tente	(<	×			4	>	×			Call BEI
				HA													For
11/16	11:15a		Х		Doct of Wo-Tak			Χ.				8,7	`.	~			analyses
				(AA)													
							_										Two week
							ļ				ļ	_					TAT
							<u> </u>			<u> </u>	<u> </u>		<u> </u>				
									ļ				ļ	ļ		_	12.11 to:
								<u> </u>		<u> </u>	_	_		<u> </u>			Willia Investments
							↓	ļ	<u> </u>	_			<u> </u>	<u> </u>	<u> </u>		YOBEI
							<u> </u>		ļ			_		_			1829 Clevest
										_	_			_			Alameda CA
41					<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>. </u>		94501
Relinquishe	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		11)		Received by: (Signatur	6	Relin	•		·			,.				Received by : (Signature)
Rélinquishe	ed by : (Signa	atur	e)	Date/Time	Received by : (Signatur	e)											Received by : (Signature)
Relinquishe	ed by : (Sign			Date/Time	Received for Laborator (Signature)						l l	mar	kε	5	· · · · · · · · · · · · · · · · · · ·	_ C	6+2(:). 4 1%
	Sych N	(⁵)			15 Challen	17.	11-	1	<u> </u>	۲۲ (1						



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Michael Weber Blymyer Engineers, Inc 1829 Clement Ave Alameda. CA 94501

11-21-89

NET Pacific Log No: 8464

495 Series No:

Client Ref: Project#89560

Subject: Analytical Results for "Willig Investment, San Leandro" Received

11-03-89.

Dear Mr. Weber:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Submitted by:

Approved by:

Gregg P. Oakes Group Leader

Mass Spectroscopy

Group Leader

Classical Chemistry

/ma

Enc: Sample Custody Document

November 21, 1989

KEY TO ABBREVIATIONS and METHOD REFERENCES

Abbreviations

NET Pacific, Inc.

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis

(parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NR : Not requested.

NTU : Nephelametric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis

(parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

unhos/cm : Micromhos per centimeter.

Method References

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

^{*} Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated reporting limits by the dilution factor.



495

LOG NO 8464

- 3 -

November 21, 1989

SAMPLE DESCRIPTION: B-1 5-15' comp 11-03-89 0830-0840 LAB NO.: (-38996)

Parameter	Reporting <u>Limit</u>	Results	Units
Organic Lead PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD 8020	0.05	ND 1 11-15-89	mg/Kg
Benzene Ethylbenzene Toluene Xylenes, total PETROLEUM HYDROCARBONS EXTRACTABLE (SOIL) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3550	25 75 25 75	ND ND ND ND 1 11-11-89 11-12-89	ug/Kg ug/Kg ug/Kg ug/Kg
as Diesel as Motor Oil	1 10	ND ND	mg/Kg mg/Kg



495

LOG NO 8464

November 21, 1989

SAMPLE DESCRIPTION: B-2 5-10' comp 11-03-89 0945-0955 LAB NO.: (-38997)

Parameter	Reporting <u>Limit</u>	Results	Units
Organic Lead PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD 8020	0.05	ND 1 11-15-89	mg/Kg
Benzene Ethylbenzene Toluene Xylenes, total PETROLEUM HYDROCARBONS EXTRACTABLE (SOIL) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3550	25 75 25 75	ND ND ND ND 1 11-11-89 11-12-89	ug/Kg ug/Kg ug/Kg ug/Kg
as Diesel as Motor Oil	1 10	1.2 ND	mg/Kg mg/Kg



495

LOG NO 8464

- 5 -

November 21, 1989

SAMPLE DESCRIPTION: B-3 5-10' comp 11-03-89 1025-1030 LAB NO.: (-38998)

Parameter	ReportingLimit	Results	Units
Organic Lead PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD 8020	0.05	ND I 11-15-89	mg/Kg
Benzene Ethylbenzene Toluene Xylenes, total PETROLEUM HYDROCARBONS EXTRACTABLE (SOIL) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3550	25 75 25 75	ND ND ND ND 1 11-11-89 11-12-89	ug/Kg ug/Kg ug/Kg ug/Kg
as Diesel as Motor Oil	1 10	1.1 `ND	mg/Kg mg/Kg



495

LOG NO 8464 . - 6 -

November 21, 1989

SAMPLE DESCRIPTION: B-4 5-10' comp 11-03-89 1050-1100

LAB NO.: (-38999)

Parameter	Reporting <u>Limit</u>	Results	Units
Organic Lead PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD 8020	0.05	ND 1 11-15-89	mg ∕Kg
Benzene Ethylbenzene Toluene Xylenes, total PETROLEUM HYDROCARBONS EXTRACTABLE (SOIL) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3550	25 75 25 75	ND ND ND 1 11-11-89 11-12-89	ug/Kg ug/Kg ug/Kg ug/Kg
as Diesel as Motor Oil	1 10	1.3 ND	mg/Kg mg/Kg

BEI Field Services

1829 Clement Avenue Alameda, CA 94501

CHAIN OF CUSTODY RECORD

84104

						T'''	Τ.			o		री	T			
PROJ NO	. PROJI	CT	NAM	1E ,	1	\	ìò			27		7	ļ		ļ	
89560	IVIL	46	IN	WEST/SAN LEMNDRO	, NO	+ BTXE	۵	03E	 ĝ	5/8		or man i	١	-		ļ
	S (Signati	_			OF	+	20	<u>Σ</u>	8	62		4	,	ľ	Ì	ļ
Alte	Mu	1 .	s i		CON-		1	Grease (SM503E)	624	(EP/		l				REMARKS
DATE	TIME	COMP.	GRAB	SAMPLE LOCATION	NO OF CON- TAINERS	直	14	Oil & Gre	VOC (EPA 624/8240)	Semi-VOC (EPA 625/8270		8				
10/3/89		入		Bone 1 5'	8 3. V	, x	X					*	7			COMPOSATE BY BORE
	<u> </u>	×		11 10'	8 35	1	X					X				
1/	1	×		" 151	8 0	٤ ١	$ \times $					1.				
	1	1		Boes 2 5'	9 45	A X	\	1								
		x		// /o'	955	4 4	X					,				
		1	١.	3		-	-									
	<u> </u>	_\	\top	BORE 3 5'	10 25	1,	X					L				
		1	\top	10'	10 32	١,	, 4					1				
		×	1	BORE 4 5'	10 54	A ·	4									run Urg Ph, BIXE
	 	1×	+-	10'	11 00	A 3	x /2	1				- (and TPH as motor Lii
			1				37	,								and TPH as motor Lil on companies of eachere per Charlieto to kep 11/4/8
		1	\top				6 97.5									
		†	\top													custody seal applied
Relinquishe	ed by : (Sign.	atur	:	Date/Time Received by : (Signati	ire)	Reli	nquis	hed	bў:	(Sig	natu	re)	Da	te/	ime	Received by : (Signature)
My	Peler			Date/Time Received by: (Signature) 11/30/69 Geff wine	le	4	4	1	<i>)</i> ~	ik	le	>				
Relinquish	ed by : (Sign	atur	e)	Date/Time Received by: (Signati	ıre)	Reli	inquis	shed	by:	(Sig	matu	re)	Da	ité/ 	Γim e	Received by : (Signature)
	ed by : (Sign		e)	Date/Time Received for Laborat (Signature)		F	Date.			R€	mari	ks		1	, ·	
(VIA NOS)			(Signature)	ole	11/2	134	23	عد			.,				
CCR/REV	0/2-89			7 /						-						