

5108865399

Environmental, Inc.

20861 Wilbeam Avenue, Suite #4

Castro Valley, CA 94546-5832

Steve draft report for

(510) 247-9885 Facsimile: (510) 247-9885

Shopping center. John Lee

Was calling us isking when we

Alamec'a County October 9, 2002 Environmental Health

Burke Commercial Real Estate 2030 Franklin St., 4th Floor Oakland, CA 94612

Subject:

Report of Limited Groundwater Investigation Could get this

Oakland, California

ERAS Project Number 02034A

Dear Mr. Burke.

ERAS Environmental is pleased to present the results of the Limited Groundwater Investigation for the above referenced site. Three soil borings were drilled on the site on September 13, 2002. Three groundwater samples were collected from the borings and submitted for laboratory chemical analysis. Low concentrations of gasoline hydrocarbons were detected in one of the samples. The results of the investigation are presented in the attached report.

Please call if you have any questions regarding the information presented in this report.

Respectfully, ERAS Environmental, Inc.

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need synations 2

David Siegel, R.E.A. II 20200 Project Manager

Gail Jones, R.G. 5725 Senior Geologist

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Appendices

Appendix A – Alameda County Drilling Permit Appendix B – Field Soil Boring Logs Appendix D - Laboratory Analytical Report

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Background

This report presents the results of the Limited Groundwater Investigation conducted by ERAS Environmental (ERAS) at 925-949 West Grand Avenue in Oakland, California (hereinafter the "Property"). The Property consists of a retail shopping center bounded by Market Street on the southeast, West Grand Avenue on the northeast, Myrtle Street on the southwest and 21st Street to the southwest. The only part of this area not part of the Property is an abandoned gasoline station on the corner of West Grand Avenue and Market Street. The current layout of the Property is shown on Figure 2.

A Phase 2 soil and groundwater investigation was performed on the Property by AEI Consultants (AEI). The results of that investigation was presented in a report dated March 21, 2002. Three soil borings (SB-1, SB-2, SB-3) were drilled in the area of a former gas and oil storage area adjacent to Market Street. Two soil borings were drilled inside the 941 West Grand Avenue suite, this unit formerly contained a dry cleaning facility.

The soil and groundwater samples from the borings in the former gas and oil storage area did not contain detectable concentrations of petroleum hydrocarbons or the concentrations were low (below current Regional Water Quality Control Board (RWQCB) Risk Based Screening Levels (RBSLs) for non drinking water).

The soil and groundwater samples from the borings inside the former dry cleaning facility (SB-4 and SB-5) did not contain concentrations of solvents above the current RBSLs. However, the groundwater sample from SB-4 contained elevated concentrations of gasoline, hydrocarbons (140,000 µg/L TPH-g and 810 µg/L benzene). The soil sample contained only low concentrations of gasoline hydrocarbons.

Purpose and Scope

There did no appear to be a source of the petroleum hydrocarbons contamination found in groundwater beneath the former dry cleaning facility since the current retail building has been present there since the early 1960s. The current investigation was undertaken to determine whether the groundwater in the area thought to be down-gradient of the abandoned gasoline station former underground storage tank (UST) was impacted with petroleum hydrocarbons (diesel or gasoline).

The proposed scope of work consisted of the following activities:

- Investigation of the proposed drilling area near estimated down-gradient side of the former USTs located on the abandoned gasoline station by an underground locating contractor;
- Application to Alameda County for soil boring permit;
- Soil boring and collection of three groundwater samples;
- Laboratory analysis of samples for petroleum hydrocarbons; and
- Evaluation of the findings from the field activities, sample analyses, and preparation

ERAS Environmental, Inc.

of this report.

Soil Boring and Sampling

On August 22, 2002, ERAS completed an Alameda County Public Works Agency Drilling Permit Application. A copy of the permit is included in Appendix A. The drilling area was marked with white paint and Underground Service Alert notified of the drilling project. Prior to drilling, on September 9, 2002, Subdynamic Locating Services of San Jose, performed a magnetometer search to check the potential drilling area for underground utility lines. The survey did not identify the presence of underground lines.

Drilling activities were conducted at the site by Vironex Incorporated (Vironex) of San Leandro, California on September 13, 2002. Prior to mobilization of the drill rig on-site, all associated drilling and sampling equipment was thoroughly cleaned to remove soil, oil, grease, mud, tar, etc. The cleaning process consisted of high pressure steam cleaning of the drilling equipment and a high pressure hot water final rinse. Before drilling each boring, all drilling and sampling equipment was cleaned with an Alconex™ soap solution and a clean water rinse. After all drilling was completed, the equipment was decontaminated by the same cleaning method.

The three soil boring locations were drilled by Vironex using a truck-mounted hydraulic push sampler drilling rig. Using a series of hollow, 4-foot long samplers lined with clear plastic tubing, soil cores were collected continuously to the total depths explored of approximately 25 feet below ground surface (bgs).

Each soil core was examined by ERAS field personnel for chemical odor and discoloration. A soil sample from near the bottom of each boring was submitted for chemical analyses. Lithologic descriptions of the cores were recorded on the boring log for each location. Details of the subsurface sediments are shown on the field soil boring logs included in Appendix B.

No petroleum product odor or other evidence of contamination such as discoloration was noted in any of the soil from the borings. Groundwater was not encountered in the three borings. A section of sample liner from the desired sampling depth was cut out, sealed with Teflon™ tape and plastic caps and stored in a cooler with blue ice until transport to the laboratory.

Subsurface Conditions

Subsurface materials beneath the asphalt surface consisted of interbedded sandy silt, clayey sand, clayey gravel, silt and silty sand. Groundwater was encountered at depths of approximately 21-24 feet.

Laboratory Methods and Results

The soil and groundwater samples were transported to Entech Analytical Labs, Inc., a State of California-certified analytical laboratory in Santa Clara, California. The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethyl benzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE).

The laboratory report and chain-of-custody form are included as Appendix C.

No TPH-g, BTEX or MTBE was detected in samples from GW1 and GW2. The sample from GW3 contained TPH-g at a concentration of 210 micrograms per liter (μ g/L), toluene at a concentration of 1.1 μ g/L, ethyl benzene at a concentration of 2.3 μ g/L and xylenes at a concentration of 3.5 μ g/L.

Conclusions and Recommendations

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The Property contains a retail shopping center building that was constructed in approximately 1960. A fueling facility was previously located along the southeastern side of the Property. Samples from soil borings drilled by AEI Consultants indicated no significant contamination in soil or groundwater in the approximate area of the former USTs. Samples from soil borings drilled inside a former dry cleaning facility indicated no significant concentrations of solvents but a groundwater sample was found to contain elevated concentrations of petroleum hydrocarbons.

Groundwater samples were collected from three soil borings drilled by ERAS along the northwestern and southwestern sides of an abandoned gasoline service station (905 West Grand Ave.) located adjacent to the eastern corner of the Property. One groundwater sample was found to contain low concentrations of petroleum hydrocarbons. Therefore the former USTs at 905 West Grand do not appear to be the source of hydrocarbon contamination of the groundwater under unit 941 of the Property.

Based on the results of the investigations performed on the Property, ERAS recommends the following to attempt to ascertain the origin of the petroleum hydrocarbons under the building.

- 1) Review information on file regarding the former dry cleaning facility to determine if the facility contained a UST. At the same time, review the original building plans to determine whether there was information pertaining to spills, leaks or a possible former UST.
- 2) Review the fuel leak file for the former ARCO gasoline service station located to the southeast of the Property across Market Street. There may be information regarding groundwater flow direction in the immediate vicinity of the Property to assist in locating possible sources of the petroleum hydrocarbons under the Property and their direction of migration.
- 3) Review historical aerial photographs to assess the use of the area that contains petroleum hydrocarbons prior to construction of the shopping center building.

Limitations

This report has been prepared by ERAS according to the State and local agency suggested guidance documents for these investigations and in general accordance with the accepted standard of practice which exists in Northern California at the time the investigation was performed. The interpretations, conclusions and recommendations made herein are based upon the data and analysis for the soil and water samples collected on-site. ERAS is not responsible for errors in laboratory analysis and reporting, or for information withheld during the course of the study. The purpose of this study is to screen for the presence of

contamination that may affect the use or value of the Property. As such, the evaluation of the geologic and environmental conditions on this site are made with very limited data. Judgements leading to conclusions are generally made with an incomplete knowledge of the conditions present. Additional conditions and materials could exist at the site that were not encountered during this investigation. No warranty or guarantee is expressed or implied therein.

20861 Wilbeam Avenue, Suite #4 Castro Valley, CA 94546-5832

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LIMITED GROUNDWATER INVESTIGATION 925 West Grand Avenue Oakland, California Project Number 02034A

Prepared for:

Mr. Steve Burke Burke Commercial Real Estate 2030 Franklin St., 4th Floor Oakland, CA 94612

Prepared by:

ERAS Environmental October 9, 2002

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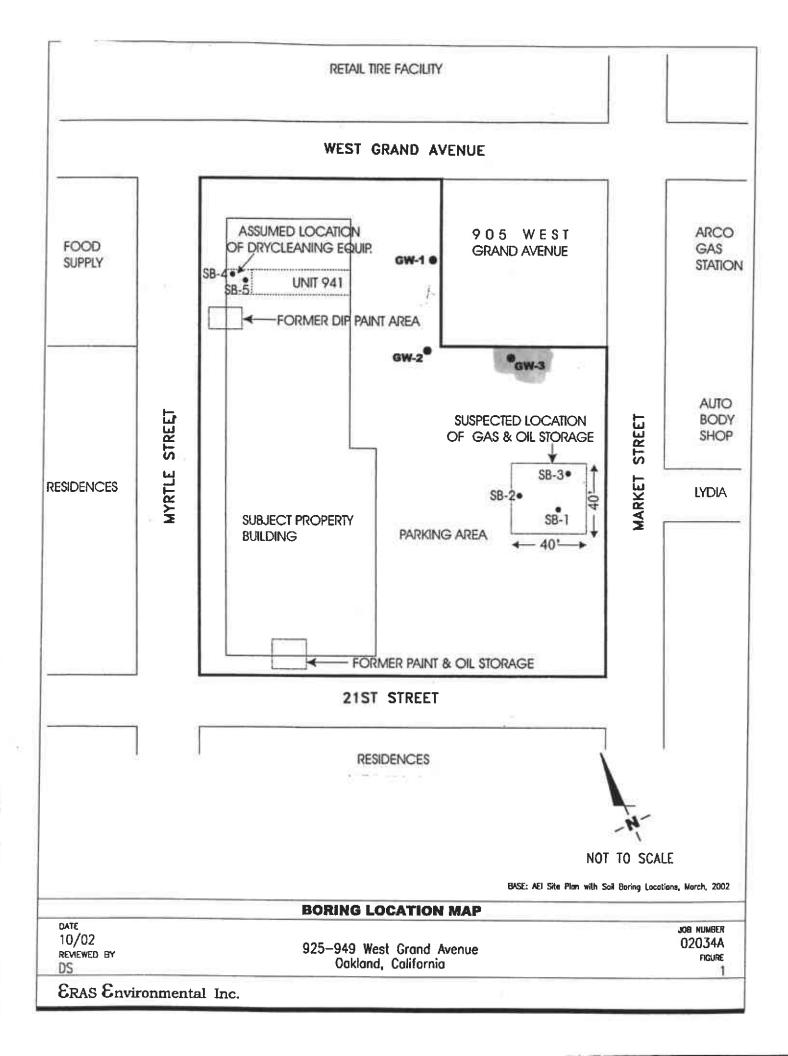
Based on the results of the investigations performed on the Property, ERAS recommends the following to attempt to ascertain the origin of the petroleum hydrocarbons under the building.

- Review information on file at the City of Oakland fire and/or building department regarding the former dry cleaning facility to determine if the facility contained a UST.
- 2) Review the fuel leak file for the former ARCO gasoline service station located to the southeast of the Property across Market Street. There may be information regarding groundwater flow direction in the immediate vicinity of the Property to assist in locating possible sources of the petroleum hydrocarbons under the Property and their direction of migration.
- 3) Review historical aerial photographs to assess the use of the area that contains petroleum hydrocarbons prior to construction of the shopping center building.

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Appendix A Alameda County Drilling Permit



ALAMEDA COUNTY PUELIC WORKS AGENCY

DRILLING PERMIT APPLICATION

FOR	APPLICANT TO COMPLETE		FOR OFFICE USE
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Due Surge / Bank	JAMS FAX 570.83	65349	Weil Completion Report
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Appendix B
Field Soil Boring Logs

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1000 1 Me hard 1 Me hard 1 Clay, yellow brown 10 x 6 1 dry; 1 hard, minor his sand, who dant 6 black erganics 6 elaysy sand, brown 10 x 6 5/3 mottled yell brum med diage, damp, low- plasticity fires, black organics 10 Si It, It olive brum, 2-5 y 5/4 jainst 10 who stiff, 10% fire sand, black erganis 10 no odor 11 He wooder 12 poor to graded sand, It olive brum 25 y 14 Se with loss fire sand, no oder 14 Se with loss fire sand, no oder when a year reached 15 ft, polled up 25/4 for coverer in two symptes with 15 winstes 15 for coverer in two symptes of coveres of hard 16 sh to water in two symptes of compatibility, resve	- 1	riven	Vacov	Blow	0 %	DETAIL	(Feed					Grio		
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1000 1000		V	1		2,3		5-1	-	1					i
1050 10 Sc Harm med duse, damp, low - plusticity fires, black organics 10 Si /t, /t o live grain, 2-57 5/4 junist 10 Wed Stiff, 10% fine sand, black organis 11 ML No oder 12 No oder 14 Sf West fines fines and, lt olive brain 257 most fines fines and, no oder 14 Sf What argain received is ft, pulled up 25% for Gas and for the same fines and fines for the same fines and fines for the same fines and fines for the same for the same fines and fines for the same fines	1040	П	T		-		H		1					
10 Sold from the day, acting to place organics 10 Solt, It alive brown, 2.57 5/4 janst 10 Solt, It alive brown, 2.57 5/4 janst 11 Mc Swed Stiff, 10% fine sand, black organics 12 No oder 13 Reporty graded sand, It alive brown 25 7 14 SP What lease fine sand, no active to make the sand with lease fine sand, no active to make the sand in a court of the sand sand with lease fine sand, no active to minutes for a court of the sand sand with lease fine sand jan active to position of 25 fine completely day 25 fine completely day 725 fine sand to the sand sand sand sand sand sand sand sand		H	++	+	-	111	6	- 2	1,-		7		•	t . Had
10 So It, It alive brun, 2.57 5/4 jasst 10 Justicity fires, black organics 10 Justicity fires, black organics 11 Just Stiff, 10% fire sand, black organics 12 Just Stiff, 10% fire sand, black organics 12 Just Stiff, 10% fire sand, black organics 14 St Just dense, 10% fires; Mild San 14 St Just less fire sand, no cour with less fire sand, no cour when a gorn reached is ft, pulled up 25% for an sample just 15 minutes Ro water in hale, full out cusing. And 16 Sh Lock rest J320 Hale completiblishy, resur		Ц	11		1_		7-11		X el	aney S	and,	brown	10 YK S	morried
10 Si It, It olive brown, 2.54 5/4 insist 10 web shiff, 10% fine sand, black organis 11 no odor 12 peorly graded sand, It olive brown 25% 13 peorly graded sand, It olive brown 25% 14 Se was fine sand, no early when a gorn reached is ft, pulled up 25% 15 in a sample just 15 minutes 16 sh by hele rest 320 Hole competitionly, result				-	-		1 . H	-50	' y	el brui	, me	d dense,	dans	, 200
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12 13 12 13 14 Series by gradood sand, It olive brown 25 yr 14 Series by mod dense, 10 %. Fixes; med san 14 Series by mod dense, 10 %. Fixes; med san 14 Series angers reached is fit, posted up 25 yr for Gw sangel just 15 minutes Ro water in hole, full out cusing. And 16 Sh by hole rest 1320 Hole completted day, result		11	11		-	111	9-	-	1 '					
12 13 12 13 14 Series by gradood sand, It olive brown 25 yr 14 Series by mod dense, 10 %. Fixes; med san 14 Series by mod dense, 10 %. Fixes; med san 14 Series anyons reached is fit, posted up 25 yr for Gw sangel just 15 minutes Ro water in hole, full out cusing. And 16 Sh by hole rest 1320 Hole completted by Jry, resur	1 12	N	M	-	-		10-		1/	5,1+,1	1+ ol.	we brw	1, 2-5	15/4 mes st
12 13 12 13 14 Series by gradood sand, It olive brown 25 yr 14 Series by mod dense, 10 %. Fixes; med san 14 Series by mod dense, 10 %. Fixes; med san 14 Series anyons reached is fit, posted up 25 yr for Gw sangel just 15 minutes Ro water in hole, full out cusing. And 16 Sh by hole rest 1320 Hole completted by Jry, resur	1050	r	1	上		111	10		Y,	wd 54	A, 10	1. fine s	and, 6	lock organis
13 13 14 SP We to less fine sand, le olive brain 25 / merst mod lense, 10 %. Fi we s; med san with less fine sand, no ear with less fine sand, no ear when a gorn reached is ft, posted up 25 / fin Gw sangel wait 15 minutes As water in hole, full out casing, And 16 54 bt diele rest 1320 Hole completely day, resure		1	11	11-	+	111	11	MC	1 ,	oder				
13 Desir Ly graded sand, It olive brown 25 the server the graded sand, It olive brown 25 the server the sand and sand with less fine sand, no oder with less fine sand, no oder when any gette reached 15 ft, postled up 25 the sangely wait 15 minutes for Gw sangely wait 15 minutes had bet bloke rest 1320 Hole completely day, sesser		1	11	1	8.8	111	12	1_	1 /					0.5
14 SP with less fine sand, and cour with less fine sand, and cour when any gorn reached is ft, posited up 25% for Gw sample wait 15 minutes to the water in hole, full out casing. And but diele rest 1320 Hole completely day, result		T	11	IL	4		1	1	1/	i Talian s	1.	1 sam	d Ital	ine brain 25 1
1100 In Gw sample wait 15 minutes An Gw sample wait 15 minutes An Gw sample wait 15 minutes And An Gw sample wait 15 minutes And Let Male rest 1320 Hole completely day, resur		ŀ	H	+-	+	+ $+$ $+$	13-		_VP	eory 9	yra ao	core. 1	0% Fice	s, med san
1100 15 In an surple wait 15 minutes An am surple wait 15 minutes An am surple wait 15 minutes And water in hole poll out cusing. And by hole rest 1320 Hole completely day, resur						111	14-	-58	u	it le	ad An	sand,	no oder	
16 - 54 to water in two poll out cusing. And let shale rest a) 320 Hole completely day, resun		Ī	11	1/-	100	111	200	1	1 40	LADVE	orn n	eached	15 6111	10000
let hole rest 320 Hole completely dry, 1850	da	P	*	4	-	111	15	1	-	m	aw sa	you in	ait 15.	winutes !
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17 Silfy sand, It olive bown 2-54 5/4, damp med dense, 15-25/1000 plartic fines,		ł	H	+		7	17-	H	Jan 4	dedoare	15-29	Elimon .	platie	fines
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ans Enviro	ume	enta	•	Castr	o Valley,	Аусице, 1 СА 94540	E	wille	0203	ER LOCATION	5 -
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avironr	men		Castr	o Valley,	са 94546	+ I CLIENI	eurke_	02c34/	9250	excante
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	Recover second	Bloward* Sampler	OVA Reading	WELL	DEPTH (Feet)	GRAPHIC LOG	DESCRIPTION I	by: Eme	-	
					20-	- sp - cL	Clay, dk.	-		(2) deuns e fine sans
1200	从		3.6		43- 603 x 1252-	5P	Fire AND, She med dense, a	obre goog	fly fire so	wet we we so
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	E		1	111	19 -	#_				Page 1 of 2

Appendix C Laboratory Analytical Report

No.9638 7 1723

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

September 26, 2002

David Siegel **ERAs Environmental** 20861 Wilbeam Avenue #4 Castro Valley, CA 94546

CORPAGE LOVE RESULTIN

Order: 31235

Project Name: 925 West Grand

Project Number:

Project Notes:

Date Collected: 9/13/2002 Date Received: 9/16/2002

P.O. Number: 925 West Grand

On September 16, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix Liquid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

BPA 3020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Patti Sandrock

QA/QC Manager

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental
20861 Wilbeam Avenue #4

Castro Valley, CA 94546 Atm: David Siegel Date: 9/26/02
Date Received: 9/16/2002
Project Name: 925 West Grand

Project Number:

P.O. Number: 925 West Grand Sampled By: Gail Jones

Certified Analytical Report

Order ID: 31235		Lab S	ımple I	D: 3123	5-001		Client San	aple ID: GW	71-25			
Sample Time:		San	ple Da	te: 9/13/	/2002		Matrix: Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Bintint	ND		1	0.5	0.5	µg/L	N/A	9/19/2002	WGC62564B	EPA 8020		
Teluene	ND		1	0.5	0.5	μg/L	N/A	9/19/2002	WGC62564B	EPA 8020		
Ethyl Benzene	ND		i	0.5	0.5	μgL	N/A	9/19/2002	WGC62564B	EPA 8020		
Xylenes Total	ND		1	1	1	us L	N/A	9/19/2002	WGC62564B	EPA 8020		
The second	420	g .			Surregi	ite	Surr	ogate Recovery	Cont	roi Limits (%)		
				4-8	romofluore	benzene		95.6	6	5 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Methyl-t-butyl Ether			1	5	5	$\mu \mathbf{g}/\mathbf{L}$	N/A	9/19/2002	WGC62564B	EPA 8020		
					Surroga	ite	Surv	ogate Recovery	Conti	rol Limits (%)		
				4-Bi	romothuoro	benzene		95 6	6.	5 - 135		
Parameter	Result	Flag	OF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH se Gastilno	V		1	50	50	µ ģ ∕L	N/A	9/19/2002	WGC62564B	EPA 8015 MOD (Purgeable)		
					Surroga	te	Surre	gate Recovery	Contr	ol Limits (%)		
				4-Br	vmofluoro	bertz e ne		91.3	65	- 135		

DF = Dilution Factor

ND = Not Detected

DUR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock OA/OC Manager

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental

20861 Wilbeam Avenue #4 Castro Valley, CA 94546

Attn: David Siegel

Date: 9/26/02

Date Received: 9/16/2002 Project Name: 925 West Grand

Project Number:

P.O. Number: 925 West Grand

Sampled By: Gail Jones

Certified Analytical Report

Order ID: 31235		Lab Sa	ımple L	D: 3123	5-002		Client Sample ID:				
Sample Time:		Sam	ple Dat	te: 9/13/	/2002		Matrix: Liquid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND	~	1	0.5	0.5	μg/L	N/A	9/19/2002	WGC62564B	EPA 8020	
Toluenc	ND		1	0.5	0.5	µg/L	N/A.	9/19/2002	WGC62564B	EP.A 8020	
Ethyl Benzene	ND		1	7.5	0.5	µg/L	N/A	9/19/2002	WGC62564B	EPA 8020	
Xylenes, Total	ND		1	1	1	$\mu g/L$	N/A	9/19/2002	WGC62564B	EPA 8020	
	100				Surregi	ite	Surn	ogate Recovery	Cont	rol Limita (%)	
				4-B	romofluota	benzene		96.5	6	5 - 135	
Parameter	Result	Flag	bF	PQL	DLR	Units	Extraction Date	Analysia Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		i	5	5	μg/L	N/A	9/19/2002	WGC62564B	BPA 8020	
	4900				Surroge	ite	Surre	gate Recovery	Coats	of Limits (%)	
				'4-Bi	romofluoro	sansanado		96.5	6.9	3 - 135	
Parameter	Resalt	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch tD	Method	
TPH as Gasoline			1	50	50	μ g /L	N/A	9/19/2002	WGC62564B	EPA 8015 MOI (Purgeable)	
					Surroga	te	Surro	gate Recovery	Contr	ol Limits (%)	
				4-Br	romotiuoro	benzene		102.5	65	- 135	

DF - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

ERAs Environmental

20861 Wilbeam Avenue #4

Castro Valley, CA 94546

Attn: David Siegel

Date: 9/26/02

Date Received: 9/16/2002

Project Name: 925 West Grand

Project Number:

P.O. Number: 925 West Grand

Sampled By: Gail Jones

Certified Analytical Report

Order ID: 31235		Lab Sa	ample I	D: 3123	5-003		Cllent San					
Sample Time:		Sam	ple Dat	te: 9/13/	2002		Matrix: Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Unite	Extraction Date	Aonlysis Date	QC Batch ID	Method		
Benzené	ND		ı	0.5	0.5	μ <u>g</u> /L	N/A	9/19/2002	WGC62564B	EPA 8020		
Toluene	1.1		1	0.5	0.5	μg/L	N/A	9/19/2002	WGC62564B	EPA 8020		
Ethyl Benzene	2.3		Ţ	0.5	0.5	pg/L	N/A	9/19/2002	WGC62564B	EPA 8020		
Xylenes, Total	3.5		1	1	1	µg/L	N/A	9/19/2002	WGC62564B	EPA 8020		
	197				Surrege	ite	Surr	ogate Recovery	Contr	ol Limits (%)		
				4-13	голкойнохо	benzene		1)5.8	69	5 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Methyl-t-butyl Ether	ND	b-	1	5	3	pg/L	N/A	9/19/2002	WGC62564B	58A 8020		
Save State Same	-				Surroge	te	Surre	egate Recovery	Contr	ol Limits (%)		
				'4-B)	romofiuora	benzene		115.8	65	135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	210	7	1	50	50	μ g /L	N/A	9/19/2002	WGC62564B	EPA 8015 MOD (Purgeable)		
					Surrega	ie	Surre	gate Recovery	Contr	of Limits (%)		
				4-B1	าสาดมีในสาจ	benzene		82.4	63	- 135		

DF = Dilution Factor

ND - Not Detected

DLR = Desection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #:

WGC62564B

Matrix:

Liquid

Units:

 $\mu g/L$

Date Analyzed:

9/18/2002

Paramet	ter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits	
Test:		as Gasoline			100							48.43.4	
TPH as	Jasohne	EPA 8015 M	ND			80-8	LCS	80.8			65.0 - 135.0		
		Surrogate		Surrogate Recovery				Limits (%)				i	
	L	4-Bromofluorobe	nzene	96.9			65 -	135					
Test:	BTE.	TEX							1 - 1				
Benzene	zene EPA 8020 ND				8		7.51	LCS	93.9			65.0 - 135.0	
Bihyl Be	преде	EPA 8020	ND		8		7.75	LCS	96.9			65.0 - 135.0	
Foluene		EPA 8020	ND		8		7.85	LCS	98.1			65.0 - 135.0	
Kylenes.	total	EPA 8020	ND		24		23.6	LCS	98.3			65.0 - 135 0	
1	0.012.00	Surrogate		Surrogate Recovery		у	Control I	imits (%)					
	8	4-Bromofluorobe	ozene	ene s			65 -	135					
Test:	TPH	as Gasoline .						and a promotive with the party of the					
IPH as G	Gasoline	EPA 8015 M	ND			93.6	LCSD	93.6	14.68	25.00	65.0 - 135.0		
	Įį.	Surrogate		Surrogate Recovery			Control I	lmks (%)					
į		4-Bromoßuorobe	nzene	98.3			65 -	135					
Test:	BTE	x	17.19										
3enzene		EPA 8020	MD		8		8.28	LCSD	103.5	9.75	25.00	65.0 - 135.0	
Ethyl B er	nzene	EPA 8020	ND		8		8.43	LCSD	105.4	8.41	25.00	65.0 - 135.0	
Coluene		EPA 8020	ND		8		8.49	LCSD	106.1	7.83	25.00	65.0 - 135.0	
(ylenes,	1otal	EPA 8020	ND		24		25.6	LCSD	106.7	8.13	25.00	65 0 - 135 0	
1		Surrogate		Surrogate Recovery			Coutrol L	imits (%)					
1		4-Bromofluorober	izene		95.6		65 -	135					

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Entech Analytical Labs, Inc. 3334 Victor Court (408) 588-0200 Santa Clara, CA 95054 (408) 588-0201 - Fax								C	ha	in	01)u	si	to	dy	/	A	ın	al	y	sis	s F	₹€	que	st
Altention to: Phone No.: Phone No.: 570 247985 Company Name: Fax No.:						Pu	Purchase Order No.;				Send Invoice to (il Ditterent)								Phone							
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