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93 NOV - 1 AM 11: 55

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October 29, 1993

Please Reply To OAKLAND

Barney Chan Alameda County Health Care Services Agency Dept. of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Re: <u>Hausauer v. Robertson</u>

Our File No.: 1023-0031

Dear Mr. Chan:

This office represents Ruben Hausauer in the above-entitled action arising from a dispute concerning an underground storage tank located at 3927 East 14th Street, Oakland, California.

Pursuant to our representation of Mr. Hausauer, please find enclosed an environmental report dated October 25, 1993, prepared by John P. Cummings and Associates. This report concerns the UST at the above location.

After your review of the enclosed, please call me with any questions or comments you may have. Thank you for your time in this matter.

KING, SHAPIRO, MITTELMAN & BUCHMAN

AEF:rj Enclosure

cc: James D. Mayol, Esq. (w/enclosure)

Ruben Hausauer (w/o enclosure)

Fremont: 570 791-1986 Epigene

# John P. Cummings & Associates

**Environmental Consultants** 

Ph. (510) 505-0722 Fax (510) 791-3306 93 NOV -1 AM 11: 55

P.O. Box 2847

Fremont, CA 94536-2847

#### PERSONAL & CONFIDENTIAL

File No 0293002.00 September 30, 1993 (2nd Draft 10/25/93)

Mr. Ruben Hausauer 6017 14th Street Oakland CA 94601

Subject; Report on the Tank Site Investigation 3927 E. 14th Street, Oakland CA

Dear Mr. Hausauer,

John P. Cummings and Associates (JPCA) is pleased to present this report of an investigation of an Underground Storage Tank (UST) at the site located at 3927 E. 14th Street in Oakland, CA. This letter contains a description of the field work, soil sample analysis, conclusions and recommendations.

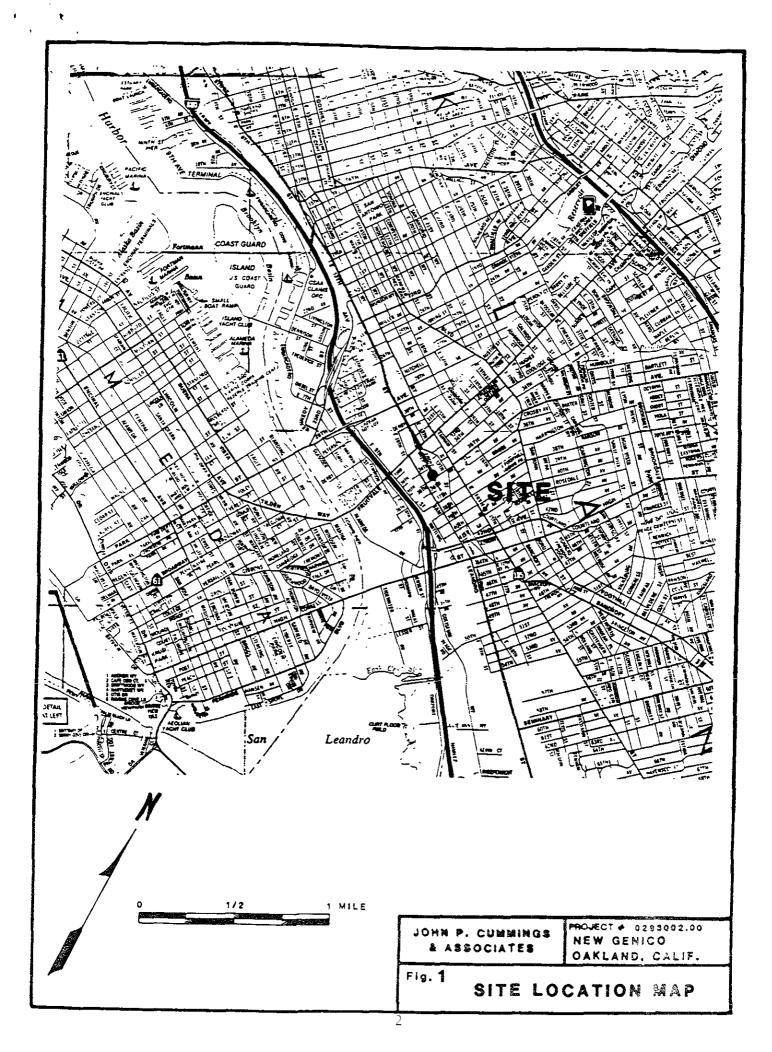
#### INTRODUCTION

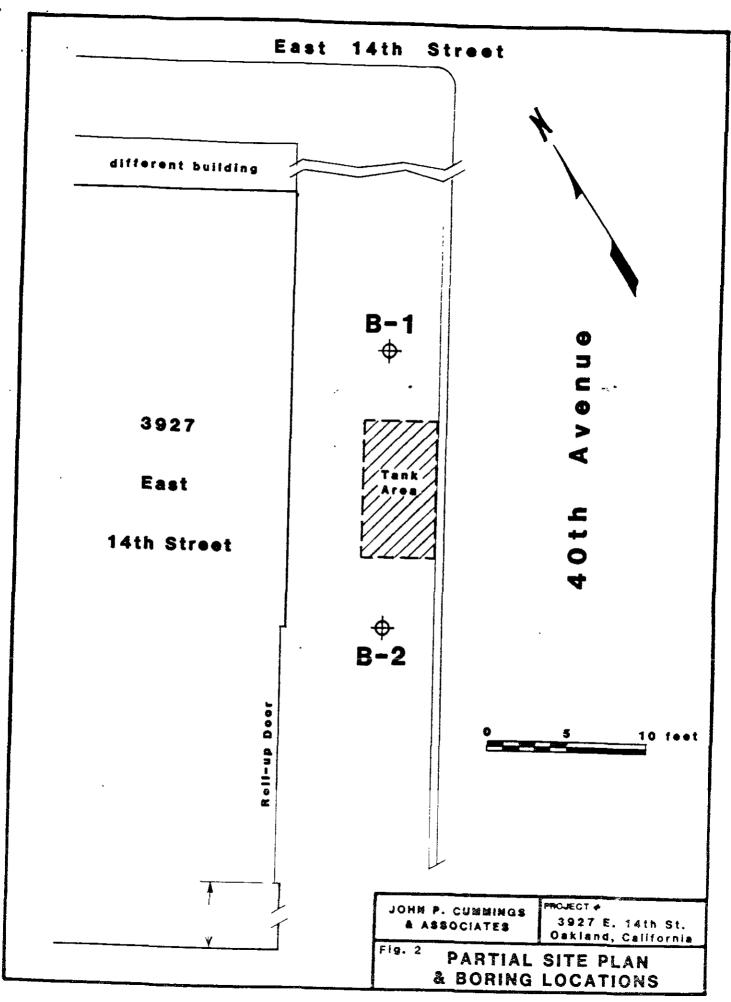
JPCA understands that the site was at one time used as an automobile dealership. The building has tenants currently who are in the auto repair business, however the present tenant does not use nor has he ever reportedly used the UST. The site location is identified in Figure 1. A 550 gal capacity UST has been identified as present on this site. The integrity of the tank is unknown. The UST was reportedly filled with concrete over 12 years ago. Based on discussions with Alameda County, the following investigation was proposed, approved and carried out.

Two soil borings were slant drilled by a properly licensed driller into the soil approximately 5 feet from each end of the UST. These borings were extended approximately 11 feet, on a diagonal, into the ground and approximately 2 feet into the native soil below the UST. The borings did not extend into groundwater. Soil samples were collected at depths of approximately 4 and 7 feet.

#### FIELD WORK

On September 9, 1993, John N. Alt and John P. Cummings of JPCA were on site. A permit to conduct the drilling of the borings had been received from the Zone 7 Water Agency. A copy of the permit is contained in Appendix A. Clearance was received telephonically from U S Alert a week earlier. The utilities had been marked. The location of the borings identified as B-1 and B-2 are shown in Figure 2. The UST location is also clearly identified in Figure 2.





GREAT SIERRA EXPLORATION was the driller for these two borings. The borings were slant drilled at approximately 45 degrees to enable JPCA to collect the soil samples from each of the borings in the native soil beneath the UST. The Boring Logs were prepared by the Certified Engineering Geologist on site during the drilling. The Boring Logs are Contained in Appendix A. Figure 3. depicts the slant drilled borings and approximate location of the samples collected.

The soil encountered in Boring 1 (B-1) was a plastic, stiff, moist black clay at the surface and became stiffer as the boring was advanced. The color changed from black to blue-grey to blue and green as the boring was advanced. A strong hydrocarbon odor was encountered at approximately 6 feet.

The soil encountered in Boring 2 (B-2) was a plastic, stiff, moist brown clay at the surface and became stiffer as the boring was advanced. The color changed from brown to blue-grey to green-grey as the boring was advanced. A strong hydrocarbon odor was encountered at approximately 6 feet.

Two soil samples were acquired from each boring, one at approximately 4 feet and the second beneath the UST in the native soil at approximately 7 feet below grade. The samples collected from Boring 1 (B-1) at 4 and 7 feet were identified as B-1-1 and B-1-2 respectively. The samples collected from Boring 2 (B-2) at 4 and 7 feet were identified as B-2-1 and B-2-2 respectively. The samples were collected in clean brass tubes, capped and sealed, labeled, held in a cooler at approximately 4 degrees Centigrade, until analysis by a State Certified laboratory and transported under Chain-of-Custody documentation.

After the soil samples were collected the borings were slurry filled with cement.

The soil cuttings from the borings were stored on site in a 55-gallon DOT drum.

#### ANALYTICAL RESULTS

The 4 soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHG) and diesel (TPHD) using EPA Method 8015; for Benzene, Toluene, Ethylbenzene and Xylene (BTEX) using Method 8020; Total Oil and Grease (TOG) using Method 5520 D&F; for Halogenated Hydrocarbons EPA Method 8240; for the metals Cadmium, Chromium, Lead, Nickel and Zinc (CAM 5) using Inductively Coupled Argon Plasma (ICAP) or Atomic Absorption (AA).

TPHD was not detected in any of the soil samples collected.

Halogenated Hydrocarbons were not detected in any of the soil samples collected.

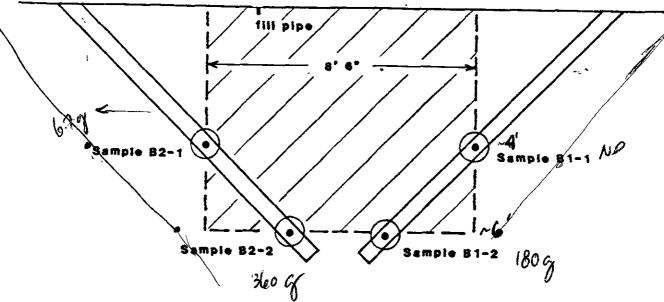
West

### 40th Avenue

East



B-1



0 5 feet

- -Horizontal distance measured.
- -Depth of tank pit assumed.

JOHN P. CUMMINGS & ASSOCIATES PROJECT ≠ 3927 East 14th St. Oakland, California

Fig. 3 CROSS SECTION
THROUGH TANK AREA

The results, in parts per million (ppm), for TPHG and BTEX are shown in Table 1. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

TABLE 1.

ppm

Sample ID		В	<u> </u>	E	<u>X</u>
B-1-1	ИД	ND	ND	ND	1.2
B-1-2	180	ND	0.22	0.43	3.5
B-2-1	6.7	ND	ND	0.24	0.82
B-2-2	360	ND	0.58	2.8	9.9

ND=Not Detected

The results, in ppm, for Total Hydrocarbons and TOG are shown in Table 2. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

TABLE 2.

ppm

Sample ID	Total Oil and Grease	<u> Hydrocarbons</u>
B-1-1	150	220
B-1-2	ND '	200
B-2-1	ND	28
B-2-2	ND	130

ND=Not Detected

The results, in ppm, for 5 California Action Metals (CAM 5) are shown in Table 3. below. The laboratory data sheets with detection limits and COC documentation are contained in Appendix B.

TABLE 3.

pps

Cadmium	Chromium	Lead	Nickel	Zinc
ND	59	27	93	39
ND	83	66	170	58
ND	54	42	72	35
ND	87	540	170	160
	ND ND ND	ND 59 ND 83 ND 54	ND 59 27 ND 83 66 ND 54 42	ND 59 27 93 ND 83 66 170 ND 54 42 72

ND=Not Detected

#### SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Based on the soil samples collected and analyzed, it is highly probable a release of hydrocarbons occurred. An Unauthorized Leak Form must be completed and forwarded to the proper regulatory agencies.

No Benzene, Diesel or Halogenated Hydrocarbons were detected in the soil samples.

The UST was most likely a waste oil tank because the Cam 5 metals, TOG, TPHG and Hydrocarbons are consistent with a waste oil tank.

According to the analytical report the contaminants showed "weathering", which indicates the contaminants have been in the soil for a very long time.

The Hydrocarbons, Gasoline and Metals Contaminant concentrations are sufficiently high that JPCA suggests that one monitoring well be placed on the westerly side of the UST to determine if groundwater has been impacted. The lead agency, the Alameda Health Services Department, will require at least this one monitoring well.

If the groundwater from the monitoring well has no detectable contaminants, JPCA will request file closure for this site.

A proposal to place a single monitoring well with the estimated cost shall be sent as a separate document.

If you have any questions, please contact us at (510) 505-0722. Sincerely,

John P. Cummings Principal

John N. Alt. CEG

cc: Robert W. Shapiro, Esq. Art Fisher, Esq.

# **APPENDIX A**



# **ZONE 7 WATER AGENCY**

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

# DRILLING PERMIT APPLICATION

FOR AP	PLICANT TO	COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 3	927 East Oakland;	14th Street.	PERMIT NUMBER 93497 LOCATION NUMBER
			COOK TOTAL RELIEF TO
CLIENT Name Mr. Rubin Ha Address 6017 East I City Oakland, CA	th St.	Voice (510) 638-750 Zip 94601	PERMIT CONDITIONS  Clicled Permit Requirements Apply
APPLICANT			Onoleg Femal Requirements Apply
Name John N. Alt	idre Pkwy	International [ax (510) 791-3366 /oice 791-1986 Mp 94536	Zone 7 office five days prior to proposed starting date.  2. Submit to Zone 7 within 60 days after completion of permitte
TYPE OF PROJECT Well Construction Cathodic Protection Water Supply Monitoring	<del></del>	otechnical investigation General Contamination	work the original Department of Water Resources Water We Drillers Report or equivalent for well Projects, or dr ling logs and location sketch for geotechnical projects.  Permit is void if project not begun within 90 days of approval date.  B. WATER WELLS, INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLIED Industries Industries Imagetic	al	NA Other	1. Minimum auriace seal thickness is two inches of cement group placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial we or 20 feet for domestic and irrigation wells unless a lesser.
DRILLING METHOD:  Mud Rotary Air Reta Cable Other	uy	Auger <u>x</u>	depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable of 20 feet C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In
DRILLER'S LICENSE NO. C	est Sier	<u></u> <u>-a / C57 # 610487</u>	ments of beginning an appropriately as the Providence of the
WELL PROJECTS			D. CATHODIC. Fill hole above anode zone with concrete placed by tramia.
Drill Hole Diameter	ln.	Maximum	E. WELL DESTRUCTION. See strached.
Casing Diameter	in.	Depth h	
Surface Seal Depth	ft	Number	
GEOTECHNICAL PROJECTS Number of Borings	-	Max mum	
Hole D'amerer	<u></u>	Depin n	
ESTIMATED STARTING DATE ESTIMATED COMPLETION DI		Tember 9, 1993 Tember 9, 1993	Marine
I hereby agree to comply with all County Ordinance-No. 73-68.	) fedulte ments	of this permit and Alamed	a Approved Minam Hong Care 3 Sep 93

91392

Color change to blueish-green CLAY   Color change to blue change to blueish-green CLAY   Color change to blueish-green CLAY   Color change to blueish-green C	BOR I	on see sketch map		AND D	HOITA	<del></del>		
DESCRIPTION   SOLUTION   SAMPLES	CONT	ACTOR Great Sierra DE	RILLERMat/Paul	DATE	ED Sept	.9,1993	DATE Sept.9	,1993
DESCRIPTION   SAMPUS   SAMPU	EQUIP DIAP	MENT Simzo 2400 SK 1		DEPTH	ETTON (FT)		ROCK DEPTH (FT) _	
DESCRIPTION   SAMPUS   SAMPU	OF BC	RING 6 inches		SAMPL	ES UNBIST			
DESCRIPTION   SAMPUS   SAMPU	OF BO SAMPL	RING soil contamination		DEPTH	(FT)			
DESCRIPTION on diagonal  dark brown to black CLAY, moist, plastic.  blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal  15-	EQUIP	MENT grab from auger		]	. ום ע		CHECKED BY:	
dark brown to black CLAY, moist, plastic.    11:25 no odor		east of tank at 45°±		1				
dark brown to black CLAY, moist, plastic.    11:25 no odor	E E	DESCRIPTION		2 50	SAME	2	1	
dark brown to black CLAY, moist, plastic.    11:25 no odor	E E			<b>第2</b> 号	Ю, YPE		REMARKS	
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal			·	<del> </del>	= -	A K	<del> </del>	
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal	1	uark brown to black CLAY,		+			25 no odor	
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal	-	morbet, padsere.		+ {		PM		
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal	1 -	-		↓				
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal		-		1				į
blue-gray CLAY, moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal	5							İ
moist, very stiff.  color change to blueish-green CLAY  base of hole on diagonal		blue-gray CLAY.		T			strone	
color change to blueish-green CLAY  base of hole on diagonal	]			†			, –	1
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Project 3927 E. 14th St., Oakland Project No.  LOG OF BORING  B-	į .		LOG OF	BOR	IING		   E	5-1

BORING LOCATION see sketch map	ELEVATION AND DATUM	
CONTRACTOR Great Sierra DRI	LERMat/Paul DAIE Sept.9,1993	ATE Sept 9 1993
DRILLING Simzo 2400 SK 1	COMPLETION	OCK
ATAMESTER.	LERMat/Paul SAMPLES Sept.9,1993 P. COMPLETION R. DEPTH (FT) D. D. DEPTH (FT) D. D. SAMPLES WATER FIRST COMPLETED BY: COMPLETED BY: COMPLETED BY:	URE
OF BORING 6 inches PURPOSE OF BORING soil contamination	WATER FIRST CO	OPPL.
SAMPLING EQUIPMENT grab from auger	LUGGED BY:	RECKED BY:
comments west of tank at 45°±	<del></del>	
	J. Alt	
DESCRIPTION	769	
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moist, stiff, plastic.	<u> </u>	
i t	+	
†	+	
5		
blueish to greenish gray CLAY,		strong
moist, very stiff, plastic.	†	hydrocarbon
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Project 3927 E. 14th St., Oaklang.		·
<u> </u>	LOG OF BORING	
Project No.		B-2

# **APPENDIX B**

# John P. Cummings & Associates Environmental Consultants

CHAIN OF CUSTODY

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2. B-1-2	11:30						11				17	1-			
3. B-2-1	13:05					1	11	1		1/	11	+			
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# 8020/8015 Modified Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed: Sep. 17, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-1

LAB ID:

ST93-09-363A

. Matrix:

Soil

Dilution:

1:2

Nome		Detection	
Name	Amount	Limit	Units
Benzene	ND**	0.01	ug/g
Toluene	ND**	0.01	ug/g
Ethylbenzene	ND**	0.01	ug/g
Xylenes	ND**	0.01	ug/g
TPHgas	ND***	2.0	ug/g

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

- \* Matrix Interference
- \*\* Peaks Weathered
- \*\*\* Unknown (C8-C32) Hydrocarbon Contamination Present

R L James, Principal Chemist

Sep 17, 1993

Date

SPARCER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

Certification No. 16141



## 8020/8015 Modified Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 17, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-2

LAB ID:

ST93-09-370A

Matrix:

Soil

-Dilution:

1:20

,-. **\*** 

		Detection	
NameName	Amount	Limit	<u>Units</u>
Benzene	ND**	0.1	ug/g
Toluene	0.22	0.1	ug/g
Ethylbenzene	0.43	0.1	ug/g
Xylenes	3.50	0.1	ug/g
TPHgas	(180) (80M)	20 سم	ug/g
Surrogate % Recovery of Trifluorotoluene =	. •		

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

Matrix Interference

Peaks Weathered

R L James, Principal Chemist

Sep 17, 1993

SPARCER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY



# 8020/8015 Modified Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 17, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

LAB ID:

ST93-09-377A

Matrix:

Soil

Dilleration on

. Maurx.	3011	<ul> <li>Dilution:</li> </ul>	1:5	BTEX
			Detection	
Name		Amount	Limit	Units
Benzene		ND	0.025	ug/g
Toluene		ND	0.025	ug/g
Ethylbenzene		0.031	0.025	ug/g
Xylenes		0.12	0.025	ug/g
TPHgas		6.7	1.0	ug/g
Surrogate % Re	covery of Trifluorotoluene =	117%		

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R L James, Principal Chemist



## 8020/8015 Modified Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 17, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-2-2

LAB ID:

ST93-09-384A

Matrix:

Soil

Dilution:

1:100

		Detection	
Name	Amount	Limit	Units
Benzene	ND**	0.5	ug/g
Toluene	1.3	0.5	ug/g
Ethylbenzene	2.8	0.5	ug/g
Xylenes	9.9	C 0.5	ug/g
TPHgas	(360)	100	ug/g
Surrogate % Recovery of Trifluorotoluene =	* .		

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

- \* Matrix Interference
- \*\* Peaks Weathered

R L James, Principa Chemist

Sep 17, 1993

Date

SPARCER TECHNOLOGY ANALYTICAL LABORATORY INDICAS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TEST NO LABORATORY Certification No. 6141



# 8020 Modified Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Project ID:

293002.00

Project Name:

Date Sampled:

Date Received:

New Genico

Sep. 9, 1993

Sep. 10, 1993

Client ID:

LCS/LCSD

LAB ID:

ST93-09-017 LCS

ST93-09-017 LCSD

Matrix:

Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	30	29	ug/kg	100%	97%	3%
Toluene	30 ppb	ND	30	29	ug/kg	100%	97%	3%
Ethylbenzene	30 ppb	ND	30	29	ug/kg	100%	97%	3%
Xylenes	30 ppb	ND	30	29	ug/kg	100%	97%	3%
Surrogate % Re	covery of Trifluo	rotoluene =	<b>-</b>	103%	LCS	97%	LCSD	

ppb = parts per biltron = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection innet

R L James, Principal Chemist

Sep 17, 1993

Date Reported

SPARCER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARCHUS WASTE TESTING LABORATORY (Certification No. 1814)



# 8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD) BTEX Analysis Report

Date Sampled:

Date Received:

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Project ID:

293002.00

Project Name:

ame: New Genico

Client ID:

MS/MSD

LAB ID:

ST93-09-017 MS

Sep. 9, 1993

Sep. 10, 1993

ST93-09-017 MSD

Matrix:

Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Toluene	30 ppb	ND	31	30	ug/kg	103%	100%	3%
Ethylbenzene	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Xylenes	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Surrogate % Re	covery of Trifluc	rotoluene =	=	103%	MS	103%	MSD	

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R L James, Principal Chemist

Sep 17, 1993

DATE

SPARGER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

Certification No. 1614;



8240 GCMS Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 15, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-1

LAB ID:

ST93-09-369A

Matrix:

Soil

Dilution:

1:25

Name	Amount	Reporting Limit	Units
1,1 - Dichloroethane	ND	125	ug/kg
1,1 - Dichloroethene	ND	125	ug/kg
1,1,1 - Trichloroethane	ND	125	ug/kg
1,1,2 - Trichloroethane	ND	125	ug/kg
1,1,2,2 - Tetrachloroethane	ND	125	ug/kg
1,2 - Dichloroethane	ND	125	ug/kg
1,2 - Dichloroethene	ND	125	ug/kg
1,2 - Dichloropropane	ND	125	ug/kg
2 - Butanone	ND	125	ug/kg
2 - Hexanone	ND	250	ug/kg
4 - Methyl - 2 - pentanone	ND	250	ug/kg
Acetone	ND	625	ug/kg
Benzene	ND	125	ug/kg
Bromodichloromethane	ND	125	ug/kg
Bromoform	ND	125	ug/kg
Bromomethane	ND	125	ug/kg
Carbon disulfide	ND	125	ug/kg ug/kg
Carbon tetrachloride	ND	125	ug/kg
Chlorobenzene	ND	125	ug/kg
Chloroethane	ND	125	ug/kg
Chloroform	ND	125	
Chloromethane	ND	125	ug/kg
cis - 1,3 - Dichloropropene	ND	125	ug/kg
Dibromochloromethane	ND	125	ug/kg ug/kg

ppb = parts per billion = ug kg = micrograms per kilogram

pam = parts per million = UQ Q = micrograms per gram

ND imes Not Detected. Compoundist may be present at concentrations below the leporting limit



## 8240 GCMS Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received: Date Analyzed: Sep. 10, 1993 Sep. 15, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-1

<del>S</del>oil

LAB ID:

ST93-09-369A

Matrix:

Dilution:

1:25

Name	Amount	_Reporting Limit	Units
Ethyl benzene	ND	125	ug/kg
Methylene chloride	ND	250	ug/kg
Styrene	ND	125	ug/kg
Tetrachloroethene	ND	125	ug/kg
Toluene	ND	125	ug/kg
Total xylenes	( 1200 )	125	ug/kg
trans - 1,3 - Dichloropropene	ND	125	ug/kg
Trichloroethene	ND	125	ug/kg ug/kg
Vinyl acetate	ND	125	
Vinyl chloride	ND	125	ug/kg
	ND	125	ug/kg
Surrogate % Recovery 1,2 - Dichloroethane d-4 =		120%	
Surrogate % Recovery Toluene d-8 =		100%	
Surrogate % Recovery 4 - Bromofluorobenzene =		110%	

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R L James, Principal Chemist

Sep 15, 1993

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY Sertication No. 1614.





# 8240 GCMS Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 15, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-2

LAB ID:

ST93-09-376A

Matrix:

Soil

Dilution:

1:25

Name	Amount	Reporting Limit	Units
1,1 - Dichloroethane	ND	125	ug/kg
1,1 - Dichloroethene	ND	125	ug/kg
1,1,1 - Trichloroethane	ND	125	ug/kg
1,1,2 - Trichloroethane	ND	125	ug/kg
1,1,2,2 - Tetrachloroethane	ND	125	ug/kg
1,2 - Dichloroethane	ND	125	ug/kg
1,2 - Dichloroethene	ND	125	ug/kg
1,2 - Dichloropropane	ND	125	ug/kg
2 - Butanone	ND	125	ug/kg
2 - Hexanone	ND	250	ug/kg
4 - Methyl - 2 - pentanone	ND	250	ug/kg
Acetone	ND	625	ug/kg
Benzene	ND	125	ug/kg ug/kg
Bromodichloromethane	ND	125	=
Bromoform	ND	125	ug/kg
Bromomethane	ND	125	ug/kg
Carbon disulfide	ND	125	ug/kg
Carbon tetrachloride	ND	125	ug/kg
Chlorobenzene	ND	125	ug/kg
Chloroethane	ND		ug/kg
Chloroform	ND ND	125	ug/kg
Chloromethane		125	ug/kg
cis - 1,3 - Dichloropropene	ND A:D	125	ug/kg
Dibromochloromethane	ND ND	125	ug/kg
2.0. office moromethatie	ND	125	ug/kg

ppb - parts per billion = 60 kg × micrograms per kilogram

ppm - parts per million = Ug g = micrograms per gram

NO - Nor Setected. Compound sumsy be present at concept ations below the reporting, mit



# 8240 GCMS Analysis Report

Attention:

Mr. John P. Cummings

John P. Cummings & Associates

P.O. Box 2847

Fremont, CA 94536-2847

Date Sampled:

Sep. 9, 1993

Date Received:

Sep. 10, 1993

Date Analyzed:

Sep. 15, 1993

Project #:

293002.00

Project Name:

New Genico

Client ID:

B-1-2

LAB ID:

ST93-09-376A

Matrix:

Soil

Dilution:

1:25

Name	Amount	Reporting Limit	Units
Ethyl benzene	ND	125	ug/kg
Methylene chloride	ND	250	ug/kg
Styrene	ND	125	ug/kg
Tetrachloroethene	ND	125	ug/kg
Toluene	ND	125	ug/kg
Total xylenes	ND	125	ug/kg
rans - 1,3 - Dichloropropene	ND	125	ug/kg
Trichloroethene	ND	125	ug/kg
/inyl acetate	ND	125	ug/kg ug/kg
Vinyl chloride	ND	125	ug/kg ug/kg
Surrogate % Recovery 1,2 - Dichloroethane d-4 =		*	
Surrogate % Recovery Toluene d-8 =		99%	
Surrogate % Recovery 4 - Bromofluorobenzene =		100%	

ppb = parts per billion = ug/kg = micrograms per kilogram ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reperting limit.

\* = Matrix Effect

R. L. James, Principal Chemist

Sep 15, 1993

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY INC. IS CERT FIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
Certification No. 1614)