STOP7

My My Man

UST SAMPLIAG REPORT

-INTERIM CORRECTIVE ACTION

FOR THE PROPERTY

LOCATED AT 20570 STANTON AVENUE

CASTRO VALLEY, CALIFORNIA

AUGUST 17, 2000

PREPARED FOR:
MR. SEAN KAPOOR
STOP 'N SAVE, INC.
25064 VIKING STREET
HAYWARD, CALIFORNIA 94545

BY: ENVIRO SOIL TECH CONSULTANTS 131 TULLY ROAD SAN JOSE, CALIFORNIA 95111

LIST OF TABLES

- **TABLE 1** ... SUMMARY OF GRAB WATER SAMPLE ANALYTICAL RESULTS
- **TABLE 2 ...** SUMMARY OF OVER-EXCAVATION SOIL SAMPLES ANALYTICAL RESULTS

LIST OF FIGURES

- FIGURE 1 ... SITE VICINITY MAP SHOWING 20570 STANTON AVENUE, CASTRO VALLEY, CALIFORNIA
- FIGURE 2 ... SITE PLAN SHOWING LOCATIONS OF BUILDING, OVER-EXCAVATION AREA, STOCKPILED SOIL AREA, SOIL AND GRAB WATER SAMPLES

LIST OF APPENDICES

- APPENDIX "A" ... TABLE 1 AND TABLE 2
- APPENDIX "B" ... FIGURE 1 AND FIGURE 2
- APPENDIX "C" ... ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATIONS

TABLE OF CONTENTS	<u>PAGE NO.</u>
LETTER OF TRANSMITTAL	1
BACKGROUND	1-3
FIELD ACTIVITIES	3
SOIL SAMPLING PROCEDURES	3-4
GRAB WATER SAMPLING PROCEDURES	4
LABORATORY ANALYSES	4
ANALYTICAL RESULTS AND DISCUSSION	5
RECOMMENDATION	5
LIMITATION	5-6
APPENDIX "A"	
TABLE 1 - SUMMARY OF GRAB WATER ANALYTICAL RESULTS	T1
TABLE 2 - SUMMARY OF OVER-EXCAVATION SOIL SAMPLES ANALYTICAL RESULTS	T2
APPENDIX "B"	
FIGURE 1 - VICINITY MAP	M1
FIGURE 2 - SITE PLAN	M2

APPENDIX "C"

ENTECH ANALYTICAL LABS, INC. LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATIONS



Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500 Fax: (408) 292-2116

August 17, 2000

File No. 2-00-706-ST

Mr. Sean Kapoor Stop 'N Save, Inc. 25064 Viking Street Hayward, California 94545

SUBJECT: INTERIM CORRECTIVE ACTION FOR THE PROPERTY

Located at 20570 Stanton Avenue, in Castro Valley, California

Dear Mr. Kapoor:

This report summarizes the activities for interim corrective action for the subject property located at 20570 Stanton Avenue, in Castro Valley, California (Figure 1).

The following report described the remedial excavation activities and analytical results for soil samples collected from the removed tank cavity after over-excavation and stockpiled soil sampling.

BACKGROUND:

On February 24, 2000, two 10,000 gallon underground storage gasoline tanks were removed by Johnson Tank Testing and Maintenance.

During tanks removal activities, ESTC was retained by Mr. Randy Johnson of Johnson Tank Testing and Maintenance to conduct soil sampling from the tank excavation. In addition, at the request of Mr. Barney Chan of ACHCSA-EHS, soil sampling was also conducted on the stockpiled soil and between the two removed underground tanks areas. All soil sampling activities were conducted under the supervision of Mr. Barney Chan of ACHCSA-EHS.

The soil samples from the tanks and between the tanks areas were collected at approximately 2 feet below the excavation areas.

The four soil samples from the two 10,000 gallon UST excavation area detected TPHg concentration upto 11 milligram per kilogram (mg/Kg), and the maximum levels detected of BTEX was (0.07 mg/Kg; 0.26 mg/Kg; 0.15 mg/Kg and 1.1 mg/Kg), respectively. MTBE concentrations in this are ranged between 0.11 mg/Kg to a maximum of 3.8 mg/kg.

The soil sample between two UST area detected TPHg concentration at 71 mg/kg; BTEX concentrations at (0.22 mg/kg; 0.37 mg/Kg; 0.59 mg/kg and 3.7 mg/Kg, respectively) and MTBE level at 1.2 mg/kg.

The stockpiled soil samples detected TPHg upto 1,100 mg/Kg; BTEX at (4.2 mg/Kg; 22 mg/Kg; 12 mg/Kg and 110 mg/Kg); MTBE at 12 mg/Kg and Total Lead at 11 mg/Kg.

The details of soil sampling is described in ESTC's report entitled "Soil Sampling Beneath Removed UST at the Property...", dated march 8, 2000.

Since concentrations of TPHg, BTEX and MTBE were detected in the soil samples collected during USTs removal, further investigation was verbally requested by the Alameda County Health Care Services Agency (ACHCSA).

ESTC was retained by Mr. Sean Kapoor to conduct further investigation as requested by ACHCSA. A work plan, dated May 18, 2000, was prepared describing the scope of work which included drilling and installation of three to four shallow monitoring wells, well development, soil & groundwater sampling, laboratory analysis and preparation of a technical report.

FIELD ACTIVITIES:

The primary objective of the remedial activities for the site was to excavate contaminated soil in the vicinity of former gasoline tanks areas to practical extent (Figure 2). This objective was based on the results of initial soil sampling.

The remedial activities were conducted on July 25 and 26, 2000, which included the excavation of approximately 150 cubic yards of contaminated soil from the former gasoline tanks areas. The excavated soil were placed on the paved area and covered with visquine for further remediation and proper disposal.

SOIL SAMPLING PROCEDURES:

Confirmation soil samples were collected from sidewalls of excavation in clean brass tubes, using a hand auger. After collecting the desired soil samples, the soil samples tubes were capped and sealed. The samples were then labeled and directly

placed into a chilled cooler under strict chain-of-custody protocol. Collected soil samples were submitted to a state-certified laboratory for analyses.

On July 25, 2000, ESTC collected eight discrete soil samples from the sidewalls of the over-excavation, and one grab water sample collected from excavation area during remediation of stockpile. The soil samples from the over-excavation were labeled as Pit-1-11; Pit-2-11; Pit-3-11; Pit-4-11; Pit-5-11; Pit-6-11; Pit-7-11 and Pit-8-11, and grab water sample was labeled as P-W-8. The location of these samples are shown on Figure 1. Table 1 summarizes the analytical results of the grab water sample, and Table 2 summarizes the analytical results of the soil samples.

GRAB WATER SAMPLING PROCEDURES:

Grab water sample was collected from former tanks' pit in 40 milliliter glass vials and 1 liter amber glass bottles sealed with Teflon-lined screw caps, labeled and directly placed into a chilled cooler under strict chain-of-custody protocol to be submitted to a state-certified laboratory for analyses..

LABORATORY ANALYSES:

Soil and grab water were submitted to Entech Analytical Labs, in Sunnyvale, for Total Petroleum Hydrocarbons as gasoline (TPHg) per EPA Method 3550/8015; BTEX per EPA Method 8020; MTBE per EPA Method 8020 and Total Lead per EPA Method AA/ICAP.

ANALYTICAL RESULTS AND DISCUSSION:

Analytical results for soil samples collected from the sidewalls of the excavation indicated that the majority of petroleum-affected soil has been removed to the extent feasible in the vicinity of USTs cavities.

RECOMMENDATION:

ESTC recommend that a copy of this report should be sent to Alameda County Health Care Services Agency-Environmental Health Services (ACHCSA-EHS).

LIMITATION:

Any recommendations that were made in this report are based upon the assumption that the soil conditions do not deviate from those disclosed in the excavation.

The findings of this report are based on the results of an independent laboratory and are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this property or adjacent properties.

This report is issued with the understanding that it is the responsibility of the owner or his/her representative to ensure that the information and recommendations contained herein are called to the attention of the Local Environmental Agency.

If you have any questions or require additional information, please feel free to contact our office at (408) 297-1500.

Sincerely,

ENVIRO SOIL TECH CONSULTANTS

FRANK HAMEDY-FARD

GENERAL MANAGER

LAWRENCE KOO, P. E.

C. E. #34928

APPENDIX "A"

TABLE 1 SUMMARY OF GRAB WATER SAMPLE ANALYTICAL RESULTS IN MILLIGRAM PER LITER (mg/L)

Date	Sample No.	TPHg	В	Т	E	X		Total Lead
6/26/00	P-W-8	0.11	6.002 6	0.00083	0.00095	0.0017	6.13	ND<0.015

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

ND - Not Detected (Below Laboratory Detection Limit)

TABLE 2 SUMMARY OF OVER-EXCAVATION SOIL SAMPLES ANALYTICAL RESULTS IN MILLIGRAM PER KILOGRAM (1998)

Date	Sample Number	Depth Feet	TPHg	В	T	E	X	MTBE	Total Lead
7/25/00	Pit-1-11	11	91	0.38	0.35	1.6	8,4	ND <0.0005	ND<5
	Pit-2-11	11	ND<1	ND <0.0005	ND <0.0005	ND <0.0005	ND <0.0005	ND <0.0005	ND<5
	Pit-3-11	11	ND <i< td=""><td>ND <0.0005</td><td>0.005</td><td>ND <0.0005</td><td>0.038</td><td>0.094</td><td>ND<5</td></i<>	ND <0.0005	0.005	ND <0.0005	0.038	0.094	ND<5
	Pit-4-11	11	ND<1	ND <0.0005	ND <0.0005	ND <0.0005	ND <0.0005	ND <0.0005	ND<5
	Pit-5-11	11	130	0.14	0.26	1.1	8.5	ND <0.0005	ND<5
	Pit-6-11	्रा ।	8.2	0.077	0.13	0.08	0.76	0.42	ND<5
	Pit-7-11	11	220	0.58	1.3	1.8	24	ND <0.0005	ND<5
	Pit-8-11	 	000	5.7	3.9	14	25	16	ND<5

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

ND - Not Detected (Below Laboratory Detection Limit)



APPENDIX "B"

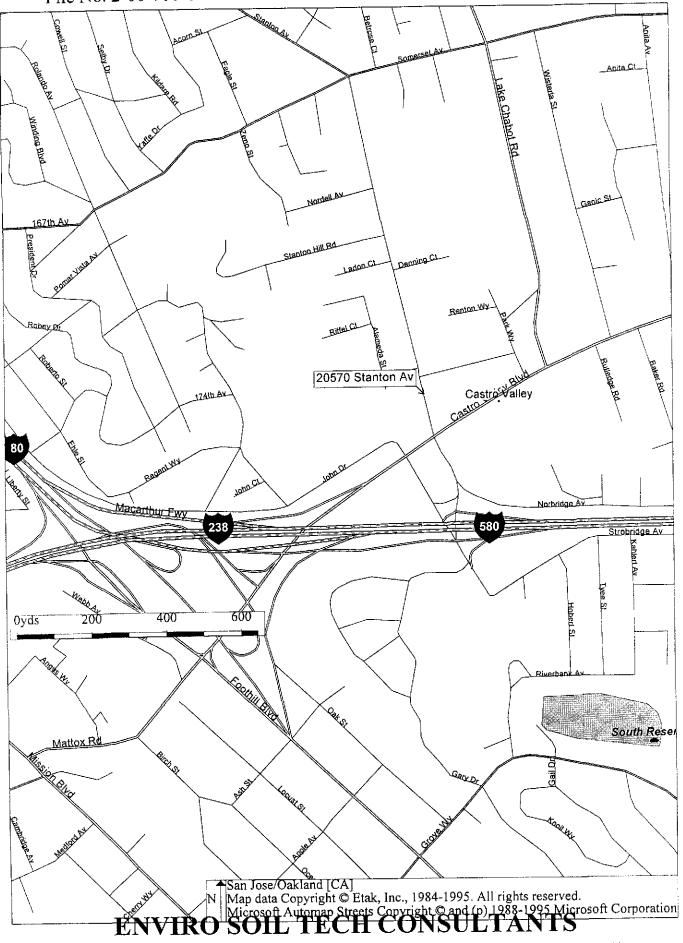


Figure 1

M1

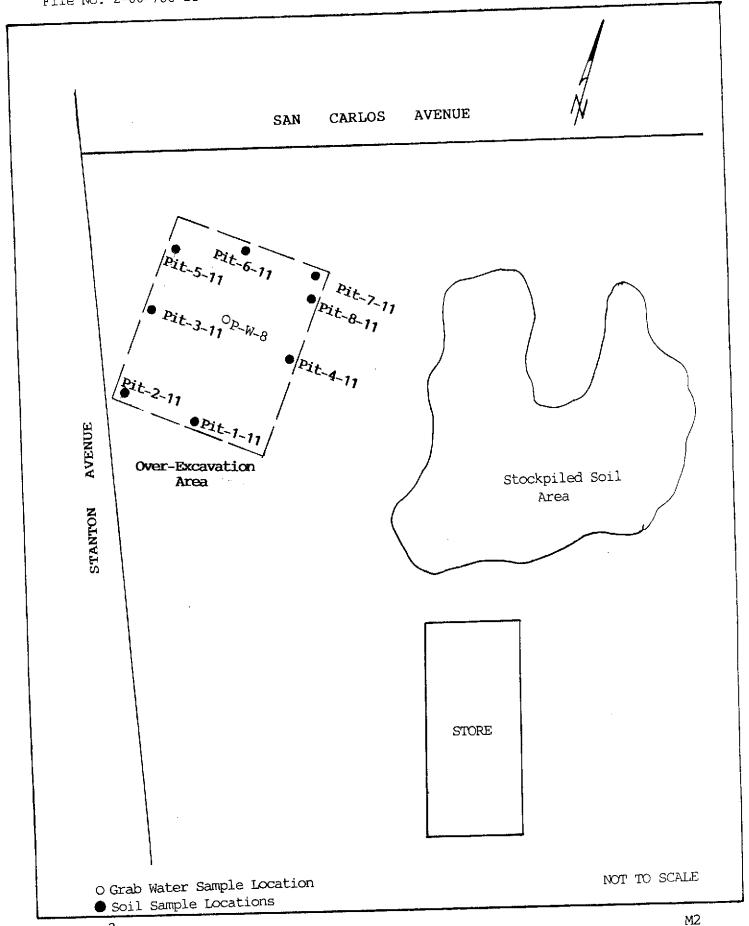


Figure 2

APPENDIX "C"

August 17, 2000

Richard Munley Enviro Soil Tech Consultants 131 Tully Road San Jose, CA 95111

Order:

21184

Date Collected:

6/26/00

Project Name:

20570 Stanton Avenue

Date Received:

6/28/00

Project Number:

2-00-706-SI

P.O. Number:

Project Notes:

On June 28, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Lead

<u>Method</u>

Liquid Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

EPA 200.7

Case Narrative: Report re-issued 08/17/00 to separate liquid results from solid results per client's request.

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 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/17/00 Date Received: 6/28/00

Project Name: 20570 Stanton Avenue

Project Number: 2-00-706-SI

P.O. Number:

Sampled By: Client

Certified Analytical Report

Order ID:	21184		Lab Sai	mple ID:	2118	4-016		Client Sam	ple ID: P-W	- -8	
Sample Time:	9:00 AM		Samı	ole Date:	6/26/	00		N	Matrix: Liqu	ıid	
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene		2.6		1	0.5	0.5	μg/Ľ	N/A	6/29/00	WGC4000629	EPA 8020
Toluene		0.83		1	0.5	0.5	μg/L	N/A	6/29/00	WGC4000629	EPA 8020
Ethyl Benzene		0.95		I	0.5	0.5	μg/L	N/A	6/29/00	WGC4000629	EPA 8020
Xylenes, Total		1.7		1	0.5	0.5	μ ջ/L	N/A	6/29/00	WGC4000629	EPA 8020
Africaco, Tour						Surroga	te	Surr	ogate Recovery	Contr	ol Limits (%)
					22	a-Trifluoro	toluene		101		65 - 135
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Marked a hund Ethan		130		ì	5	5	μg/L	N/A	6/29/00	WGC4000629	EPA 8020
Methyl-t-butyl Ether		150		•	-	Surroga		Surr	ogate Recovery	Conti	ol Limits (%)
					aa	a-Trifluoro			101		65 - 135
Parameter	<u> </u>	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline		110		1	50	50	μg/L	N/A	6/29/00	WGC4000629	EPA 8015 MOD. (Purgeable)
						Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)
					aa	a-Trifluoro			106		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)

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/17/00 Date Received: 6/28/00

Project Name: 20570 Stanton Avenue

Project Number: 2-00-706-SI

P.O. Number:

Sampled By: Client

Certified Analytical Report

Onder ID:	21104	Lab Sa	mple ID:	21184-0	016	Client	Sample ID: P-	W-8		
Order ID: Sample Time:			imple 1D. iple Date:			Matrix: Liquid				
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method EPA 200.7	
Lead	ND	1	0.015	0.015	mg/L	6/29/00	7/5/00	WM000620	EPA 200.7	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Michelle L Anderson, Laboratory Director

Page I of I

								CHAIN	OF CUST	<u>rody</u>	RE	COR	D_			
рпол. 1 2-00-70	NO.	205	70	me Sta	ntoni	Ave., Co	astro Ko	uley			547	(2) W/		/ }/		
SAMPLER	RS: 18un	chal))	- 721	evil	W			CON-	10 P	2000			J.		REMARKS
NO.	DATE	TIME	ند	WATER		_	LOCATION		TAINER	1.	74		7	<u>/</u>	<u>/</u>	
Ī	\$400	900		~		P-W-	- 8		8	ν	V	1	/			2184-016
												•				90 JUN 28 6:
										-			_			
Relinguish	ed by: /	Signature WW	<u>.</u> λγ	6		/Time	Received by	y: ISignature Radd	7		inquis Las					Date / Time Receive by: (Signature) 6/28/00 1610 2
Relinquish	ned by: /	Signatura	·)		Date	/Time	Received by	y: (Signature	., /	Reli	nguis	hed b	V (S)	ggatur	·+)	Date / Time Received by: (ISignature)
Relinquish	ied by: /	Signature	·J		Date	Time	Received fo	or Laborato	ory by:		Dat	e / Ti	me	F	- Remar	irks
							 									

ENVIRO SOIL TECH CONSULTANTS

| Environmental & Geolechnical Consultants | 111 IUTLS ROLD, N PV IOSE, CHITORNE (9844) | Veli: | (408) 297 3500 | Fax: | (408) 292 2116

August 03, 2000

Richard Munley Enviro Soil Tech Consultants 131 Tully Road San Jose, CA 95111

Order: 21556

Date Collected: 7/25/00

Project Name: 20570 Stanton Ave.

Date Received: 7/27/00

Project Number: 2-00-706-ST

P.O. Number:

Project Notes:

On July 27, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Lead

<u>Method</u>

Solid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

EPA 6010B

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 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

Enviro Soil Tech Consultants

131 Tully Road San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00 Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID:	21556	Lab Sa	mple ID:	21556-0	001	Client	Sample ID: Pit	-1-11	
Sample Time:		Sam	ple Date:	7/25/00			Matrix: So	lid	
Parameter Lead	Result ND	DF 5	PQL 1	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab Sa	ımple ID:	21556-0	002	Client	Sample ID: Pit	-2-11	
Sample Time:	11:10 AM	San	ple Date:	7/25/00			Matrix: So	lid	
Parameter Lead	Result ND	DF 1	PQL 1	DLR 1	Units mg/Kg	PrepDate 7/28/00	Analysis Date	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab S	mple ID:	21556-0	003	Client	Sample ID: Pit	-3-11	
Sample Time:	11:25 AM	San	ple Date:	7/25/00	•				
Parameter Lead	Result ND	DF 5	PQ L l	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab S	ample ID:	21556-	004	Client	Sample ID: Pi	t-4-11	
Sample Time:		San	- iple Date:	7/25/00	1		Matrix: So	lid	
Parameter Lead	Result ND	DF 5	PQL 1	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab S	ample ID:	21556-	005	Client	Sample ID: Pi	t-5-11	
Sample Time:	11:45 AM	San	nple Date:	7/25/00)		Matrix: So	olid	
Parameter Lead	Result ND	DF 5	PQL l	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Michelle Landerson, Laboratory Director

Page 1 of 2

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00 Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID:	21556	Lab Sa	mple ID:	21556-	006	Client			
Sample Time:	12:00 PM	Sam	ple Date:	7/25/00)		Matrix: So	lid	
Parameter Lead	Result ND	DF 5	PQ L	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab Sa	ımple ID:	21556-	007	Client	Sample ID: Pit	t-7-11	
Sample Time:	12:15 PM	Sam	ple Date: 7/25/00 Matrix: Solid						
Parameter Lead	Result ND	DF 5	PQL 1	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B
Order ID:	21556	Lab Sa	mple ID:	21556-	008	Client	Sample ID: Pi	t-8-11	
Sample Time:	12:25 PM	Sam	ple Date:	7/25/00)		Matrix: So	olid	
Parameter Lead	Result ND	DF 5	PQL l	DLR 5	Units mg/Kg	PrepDate 7/28/00	Analysis Date 8/1/00	QC Batch ID SM000718	Method EPA 6010B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 215	56	Lab Sa	mple Il): 2155	5-001		Client Sam	ple ID: Pit-	1-11			
Sample Time: 11:0	00 AM	Sam	ple Dat	e: 7/25/	00	Matrix: Solid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	0.38		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020		
Toluene	0.35		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020		
Ethyl Benzene	1.6		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020		
Xylenes, Total	8.4		200	0.001	0.2	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020		
7.57.0					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)		
				aaa	a-Trifluoro	otoluene		100		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Methyl-t-butyl Ether	ND		200	0.005	t	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020		
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)		
				aa	a-Trifluor	otoluene		100		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	91		200	0.050	10	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD. (Purgeable)		
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)		
				aa	a-Trifluor			67		65 - 135		

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 2155	56	Lab Sa	mple II): 2155	6-002		Client Sam	ple ID: Pit-	2-11	
Sample Time: 11:1	0 AM	Sam	ple Dat	e: 7/25/	00		1	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020
7.7.10.100, 1					Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluore	stoluene		114		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020
(Memyi-t-butyt Emot					Surrog	ate	Surr	ogate Recovery	/ Conti	rol Limits (%)
				22	a-Trifluoro			114		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	l	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surr	ogate Recovery	y Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		77		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)

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 215.	56	Lab Sa	mple II): 2155	6-003		Client Sam	ple ID: Pit-	-3-11	
Sample Time: 11:2	25 AM	Sam	ple Dat	e: 7/25/	00		I	id		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020
Toluene	0.005		1	0.005	0.005	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020
Xylenes, Total	0.038		1	0.005	0.005	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020
,,					Surrog	ate	Surr	ogate Recover	y Conti	ol Limits (%)
				aa	a-Trifluoro	otoluene		95		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	0.094		1	0.05	0.05	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020
2.200.31 (00.31					Surrog	ate	Surr	ogate Recover;	y Conti	rol Limits (%)
				aa	a-Trifluoro			95		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	l	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD (Purgeable)
					Surreg	ate	Surr	ogate Recover	y Cont	rol Limits (%)
				aa	a-Trifluor			71		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)

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 215	56	Lab Sa	mple II	: 2155	6-004		Client Sam	ple ID: Pit-	4-11		
Sample Time: 11:3	5 AM	Sam	ple Dat	e: 7/25/	00	Matrix: Solid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020	
Toluene	ND		ı	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020	
Ethyl Benzene	ND		I	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020	
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020	
· · · · · · · · · · · · · · · · · · ·					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)	
				aa	a-Trifluoro	otoluene		90		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8020	
McChyl-t-batyl Edici			_		Surrog		Surr	ogate Recovery	Cont	rol Limits (%)	
				aa	a-Trifluor			90		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	ND		l	1	1	mg/Kg	N/A	8/1/00	SGC1000731	EPA 8015 MOD (Purgeable)	
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)	
				aa	a-Trifluor			29		65 - 135	

Comment:

Surrogate recovery out of control limits due to matrix interference

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 2155	56	Lab Sa	mple I	D: 21550	6-005		Client Sam	ple ID: Pit-	5-11		
Sample Time: 11:4	5 AM	Sam	ple Dat	te: 7/25/	00						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	0.14		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Toluene	0.26		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Ethyl Benzene	1.1		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Xylenes, Total	8.5		200	100.0	0.2	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)	
				aaa	ı-Trifluoro	otoluene		76		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		200	0.005	1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
naturally Courty Courts	, , ,				Surrog		Surr	ogate Recovery	Cont	rol Limits (%)	
				aaa	a-Trifluoro			76		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	130		200	0.050	10	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD: (Purgeable)	
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)	
				aaa	a-Trifluor	otoluene		65	65 - 135		

DF = Dilution Factor

Comment:

ND = Not Detected

Sample required methanol extraction due to high concentrations of target hydrocarbons

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 2155	56	Lab Sa	mple ID	: 2155	6-006						
Sample Time: 12:0	0 PM	Sam	ple Date	: 7/25/	00		11	Matrix: Soli	d		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	0.077		5	0.005	0.025	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Toluene	0.13	•	5	0.005	0.025	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Ethyl Benzene	0.080		5	0.005	0.025	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Xylenes, Total	0.76		5	0.005	0.025	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
-, ,					Surrog	ate	Surr	ogate Recovery	Control Limits (%)		
				aa	aaa-Trifluoro			76		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	0.42		5	0.05	0.25	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
			-		Surrog	ate	Surr	ogate Recovery	y Control Limits (%)		
				aa	a-Trifluore	otoluene		76		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	8.2		5	1	5	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD (Purgeable)	
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)	
				aa	a-Trifluor	otoluene		70	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)

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID:	21556	Lab Sa	mple II	D: 2155	6-007		Client Sam	ple ID: Pit-	7-11		
Sample Time:	12:15 PM	Sam	ple Dat	e: 7/25/	00		I	Matrix: Soli	d		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	0.58		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Toluene	1.3		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Ethyl Benzene	1.8		200	0.0005	0.1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
Xylenes, Total	24		200	0.001	0.2	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
					Surrog	ate	Surr	ogate Recovery	Conti	ol Limits (%)	
				aaa	a-Trifluoro	otoluene		81		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		200	0.005	1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020	
,,,,,					Surrog	ate	Surr	ogate Recovery	Control Limits (%)		
				aaa	a-Trifluoro	otoluene	81			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	220		200	0.050	10	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD. (Purgeable)	
					Surrog	ate	Surr	ogate Recovery	Contr	rol Limits (%)	
				aaa	a-Trifluor			66	65 - 135		
Comment:	Sample required metha	anol extract	tion due t	o high conc	entrations	of target h	ydrocarbons				

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Richard Munley

Date: 8/03/00

Date Received: 7/27/00

Project Name: 20570 Stanton Ave.

Project Number: 2-00-706-ST

P.O. Number:

Sampled By: Richard Munley

Certified Analytical Report

Order ID: 215	56	Lab Sa	mple II): 21556	6-008		Client Sample ID: Pit-8-11							
Sample Time: 12:2	.5 PM	Sam	ple Dat	e: 7/25/	00		I							
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method				
Benzene	5.7		1000	0.0005	0.5	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020				
Toluene	3.9		1000	0.0005	0.5	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020				
Ethyl Benzene	14		1000	0.0005	0.5	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020				
Xylenes, Total	25		1000	0.001	1	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020				
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)				
				aaa	a-Trifluoro	otoluene		89		65 - 135				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method				
Methyl-t-butyl Ether	16		1000	0.005	5	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8020				
,					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)				
				aaa	ı-Trifluore			89		65 - 135				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method				
TPH as Gasoline	1000		1000	0.050	50	mg/Kg	N/A	7/28/00	SGC1000728	EPA 8015 MOD (Purgeable)				
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)				
				aaa	-Trifluore	otoluene		83	65 - 135					

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

Laboratory Control Spikes METHOD: EPA 6010

QC Batch #: SM000718 Matrix: Solid Date Analyzed: 08/03/00
Date Digested: 07/28/00
Digestion Method: EPA 3050
Sniked Sample: Blank Spike

Units:	mg/kg								S p1к	ed Sample:	Blank Spike
PARAMETER	Method #	MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SP %R	SPD mg/kg	SPD %R	RPD	RPD	QC LIMITS %R
Antimony	6010	<1.0	50.	0.0	46.	91	44.	87	4.7	25.0	75-125
Arsenic	6010	<1.0	50.	0.0	43.	86	42.	83	3.4	25.0	75-125
Barium	6010	<1.0	50.	0.0	48.	96	48.	95	0.2	25.0	75-125
Beryllium	6010	<1.0	50.	0.0	46.	92	44.	89	4.3	25.0	75-125
Cadmium	6010	<1.0	50.	0.0	43.	86	41.	82	4.1	25.0	75-125
Chromium	6010	<1.0	50.	0.0	54.	107	47.	94	12.9	25.0	75-125
Cobalt	6010	<1.0	50.	0.0	47.	95	45.	90	4.6	25.0	75-125
Copper	6010	<1.0	50.	0.0	47.	93	46.	93	0.8	25.0	75-125
Lead	6010	<1.0	50.	0.0	46.	92	44.	87	5.5	25.0	75-125
Molybdenum	6010	<1.0	50.	0.0	48.	96	46.	92	4.3	25.0	75-125
Nickel	6010	<1.0	50.	0.0	50.	101	46.	92	8.7	25.0	75-125
Selenium	6010	<1.0	50.	0.0	43.	87	42.	85	2.1	25.0	75-125
Silver	6010	<1.0	50.	0.0	47.	95	46.	92	2.6	25.0	75-125
Thallium	6010	<1.0	50.	0.0	45.	90	42.	84	6.5	25.0	75-125
Vanadium	6010	<1.0	50.	0.0	48.	96	46.	93	3.3	25.0	75-125
Zinc	6010	<1.0	50.	0.0	44.	87	42.	83	4.8	25.0	75-125
i !			İ	į							

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC1000728

Matrix: Soil

Date Analyzed: 07/28/00 Quality Control Sample: Blank Spike

Units: µg/kg

			_	, ,			,		:	•	
PARAMETER	Method #	MB μg/kg	SA μg/kg	SR µg/kg	SP	SP % R	SPD μg/kg	SPD %R	RPD	RPD (QC LIMITS %R
Benzene	8020	<5.0	5.5	ND !	4.8	87	5.2	94	7.2	25	70-130
Toluene	8020	<5.0	27.0	ND	31	115	34	126	9.2	2.5	70-130
Ethyl Benzene	8020	<5.0	5.5	ND	5.9	107	6.8	123	14.6	25	70-130
Xylenes	8020	< 5.0	33.0	ND	33	100	38	114	13.3	25	70-130
Gasoline	8015	. <1000	471	ND	496	105	511	108	3.0	2.5	75-125
aaa-TFT(S.S.)-PID	8020		•	111%	93%		93%				65-135
aaa-TFT(S.S.)-FID	8015			114%	111%		122%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery

NC: Not Calculated *

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC1000731

Matrix: Soil

Date Analyzed: 07/28/00 Quality Control Sample: Blank Spike

Units: µg/kg

PARAMETER	Method #	MB µg/kg	SA μg/kg	SR μg/kg	SP	SP % R	SPD µg/kg	SPD %R	RPD	RPD (OC LIMITS %R
Benzene	8020	<5.0	5.5	ND	4.8	87	5.2	94	7.2	25	70-130
Toluene	8020	<5.0	27.0	ND	31	115	34	126	9.2	25	70-130
Ethyl Benzene	8020	< 5.0	5.5	ND	5.9	107	6.8	123	14.6	25	70-130
Xylenes	8020	<5.0	33.0	ND	33	100	38	114	13.3	25	70-130
Gasoline	8015	<1000	471	ND	496	105	511	108	3.0	25	75-125
aaa-TFT(S.S.)-PID	8020		•	111%	93%		93%				65-135
aaa-TFT(S.S.)-FID	1		6 122%					65-135			

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

PROJ. (2-00-70	NO. 36-57 a	2057	NAI 70 C	me SHOU	iton A	ve., C	lastro Va		Ur cus				/	N/W	F/	//	//	/ 			
SAMPLE	S: Isign	w lured	M	New	ly				CON-	B Aug,		Ž	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		//	//			REMA	RKS	
NO.	DATE	TIME	501L,	WATER			LOCATION	_	TAINER	1	7 4	\$/	}		//	<u>/</u>					
1	7/25/00	1100	/		7	ì+-	1-11		i	/	V	/]Э	45	56	-001			
2		110	1/		F	>i+	2-11		1	/		1/						-001	<u> </u>		
3		1125	V		7	`i+	3-11		1	<u>.</u>	_							-002	<u>'</u>		
4		1135	1		7	j+ -2	4-11		1		/	كنا		\perp				-004			
5		1145			P	i+ -:	5-11		1	V	1/2							-00	5		
6		1200	1/		+	i+-6	5-11			į,	1/							<u>-00(</u>	<u>.</u> .		
7		1215			4	1+-3	7-//											-00		<u></u>	
8		1225	1		$\neg \phi$	i+-5	?-11									Y	<i>-</i>	-00	<u> 5</u>		
· U							, , , , , , , , , , , , , , , , , , , 													00	JUL 27 €
-			ļ																		
	 																		 -		
.		 			·						1										
Relinquist	ned by: j	Signature	<u> </u>	' '	Date	Time	Received by	(Signaturi	n)	Reli	inquis	hed b	y: (Si	gnature)		Date	Time	Receive	by: (Signature)	
Ri	hed	Me	mli	7 7/	27/00	15 ¹⁴	PRABI	1 503	32_	Ý	RAE	BH	50	32	-	7/			Ou	en Oomb	500
Relinquist	hed by:	Signature	,,		Date ,	Time	Received by:	(Signature	•)	Reli	nquis	hed b	y: (Sig	gnature)		Date ,	/Time	Receive	d by: <i>(Signeture)</i>	
Relinquist	ned by: I	Signature	·)		Date	Time	Received for (Signature)	Laborato	ory by:		Dat	te /Ti	me	R	emarks	<u>.</u> i			1		
Relinquist) rer			1	_	ory by:		Dat	te /Ti	me	R	emarks	i i			J		



Environmental & Gentechnical Consultants 131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111 Tel: (408) 297-1500 Fax: (408) 292-2116