



Fremont, CA 94539 (415) 651-1906 Suite B 43255 Mission Blvd.

ANALYSIS REPORT

1020lab.frm

Attention: Mr. Bill Howell

Applied GeoSystems

43255 Mission Boulevard

Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

Date Received:

02-08-90 02-09-90

BETX Analyzed:

02-15-90

TPHg Analyzed:

02-15-90 NR

TPHd Analyzed: Matrix

Soil

	Detection Limit:	Benzene ppm 0.050	Toluene ppm 0.050	Ethyl- benzene <u>ppm</u> 0.050	Total Xylenes <u>ppm</u> 0.050	TPHg <u>ppm</u> 2.0	TPHd ppm 10
Data Point	SAMPLE Laboratory Identificat	ion					
1	S-7-TP1SW S1002058	0.13	ND	ND	0.15	ND	NR
a	S-8-TP1NE S1002059	0.088	ND	ND	ND	ND	NR
3	S-13-TP2N S1002060	0,32	0.46	0.083	0.68	45	NR
4	S-13-TP2W S1002061	0.24	0.15	0.094	0.67	3.9	NR
5	S-13-TP2E S1002062	0.43	0.95	0.36	3.7	23	NR
6	S-10-TP2S S1002063	0.13	0.10	ND	0.29	2.5	NR

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPIIg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPIId—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

02-17-90 Date Reported

ppm = parts per million = mg/kg = milligrams per kilogram.

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

NR = Analysis not requested.





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02-15-90

Fremont, CA 94539

TPHg Analyzed:

02-15-90

Project:

AGS 19014-5

TPHd Analyzed:

NR

Matrix

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ata oint	SAMPLE Laboratory Identificat	ion					
7	S-12-TP2S S1002064	1.8	14	3.4	29	210	NR
9	S-13-TP2BN S1002066	0.86	5.5	6.7	43	360	NR
8	S-12-TP2BX m	0.33	1.2	0.77	6.1	42	NR

NR = Analysis not requested.

S1002065

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Laboratory Representative

02-17-90 Date Reported

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CHAIN OF CUSTODY RECORD



SAMPLER (signat	ure):	Ton	Applied	GeoSystems						
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TURNAROUND T	IME: 24 1 Bill Howe	hr	SHIPPING INFORMATION: Shipper Address Date Shipped Service Used Airbill No Cooler No							
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43255 Mission Blvd. Suite B Fremont, CA 94539 (415) 651-1906

ANALYSIS REPORT

1020lab.frm

Attention: Mr. Bill Howell Date Sampled: 01-31-90
Applied GeoSystems Date Received: 01-31-90
43255 Mission Boulevard BETX Analyzed: 01-31-90
Fremont, CA 94539 TPHg Analyzed: 01-31-90

Project: AGS 19014-5 TPHd Analyzed: NR Matrix Soil

Ethyl-Total Xylenes **TPHg TPHd** Benzene Toluene benzene <u>ppm</u> ppm ppm ppm ppm ppm **Detection Limit:** 0.050 0.050 0.050 0.050 2.0 10 **SAMPLE** Laboratory Identification NR S-9.5-TPB1 ND ND ND ND ND S1001201 S-15-TPB1 0.19 0.47 3.3 6.6 290 NR S1001202 0.22 58 NR ND 0.069 0.14 S-18.5-TPB1 S1001203 NR ND ND ND ND ND S-21-TPB1 S1001204 NR ND ND ND ND S-11-TPB2 ND S1001205 ND ND ND NR S-16-TPB2 ND ND S1001206

ANALYTICAL PROCEDURES

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TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method-3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

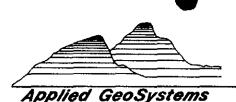
Laboratory Representative 02-01-90
Date Reported

APPLIED GEOSYSTEMS IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 153)

ppm = parts per million = mg/kg = milligrams per kilogram.

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Applied GeoSystems

43255 Mission Boulevard

Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

Date Received:

01-31-90 01-31-90

BETX Analyzed:

01-31-90

TPHg Analyzed: TPHd Analyzed: 01-31-90 NR

Matrix

Soil

Detection Limit:	Benzene ppm 0.050	Toluene <u>ppm</u> 0.050	Ethyl- benzene <u>ppm</u> 0.050	Total Xylenes ppm 0.050	TPHg ppm 2.0	TPHd ppm 10
SAMPLE Laboratory Identificat	ion					
S-18.5-TPB2	ND	ND	ND	ND	ND	NR

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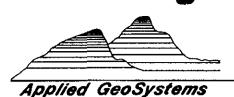
TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

02-01-90 Date Reported CHAIN OF CUSTODY RECORD



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Attention:

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Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

Date Received:

02-06-90 BETX Analyzed: 02-06-90

TPHg Analyzed:

02-06-90

TPHd Analyzed:

NR

02-06-90

Matrix

Soil

Detection Limit:	Benzene ppm 0.050	oluene opm 050	Ethyl- benzene <u>ppm</u> 0.050	Total Xylenes ppm 0.050	TPHg <u>ppm</u> 2.0	TPHd ppm 10
SAMPLE Laboratory Identificat	ion					
S-5-TPB3 S1002032	ND	ND	ND	ND	ND	NR
S-10-TPB3 S1002033	0.075	ND	ND	ND	ND	NR
S-15-TPB3 S1002034	ND	ND	ND	ND	ND	NR
S-20-TPB3 S1002035	0.46	ND	0.086	ND	2.1	NR

ANALYTICAL PROCEDURES

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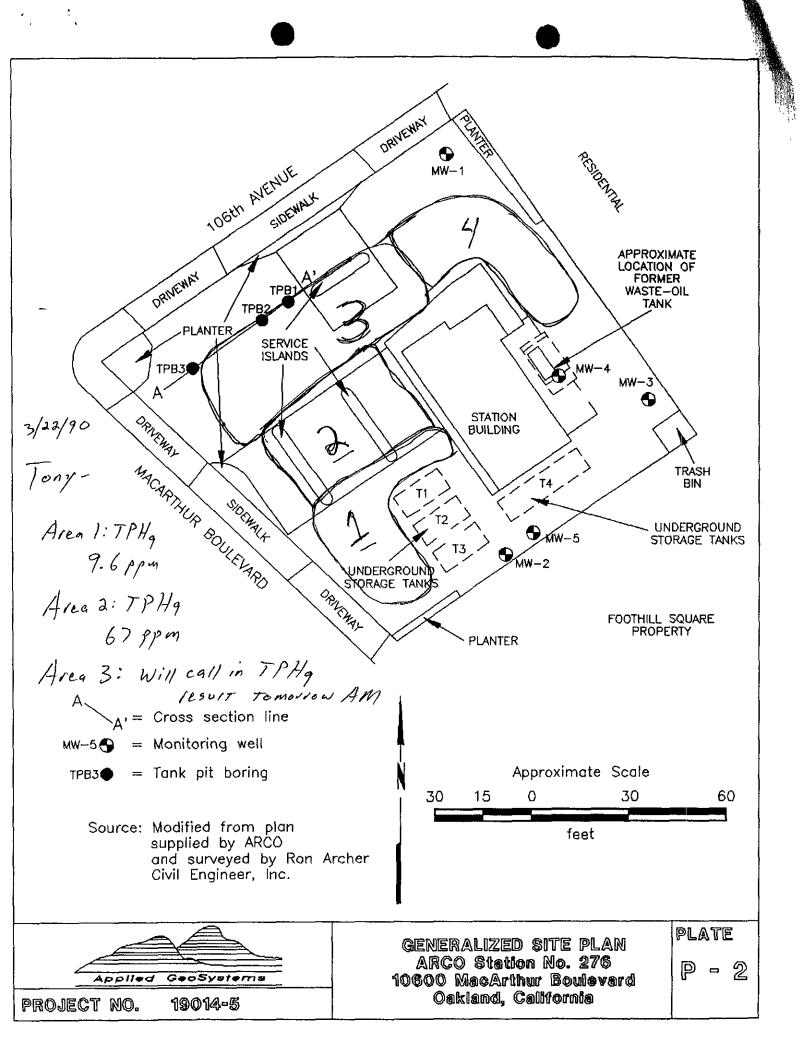
Laboratory Representative

02-07-90 Date Reported

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(415) 651-1906

Turn Around: 48 br. Proj. Mgr.: 8:11 Howell

RELINQUISHED BY (Signature):

DATE / TIME

RECEIVED FOR LABORATORY BY (Signature):



Applied GeoSystems 43255 Mission Blvd., Suite B Fremont, CA 94539 Attention: Bill Howell Client Project ID: #19014-5, Arco/MacArthur Sample Descript: Soil

Sample Descript: Soil
Analysis Method: California LUFT Manual, 12/87

First Sample #: 003-2716

Sampled: Mar 19, 1990 Received: Mar 20, 1990 Extracted: Mar 22, 1990 Analyzed: Mar 22, 1990

Reported: Mar 22, 1990

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
003-2716	S-0322-LB	1.2

Detection Limits: 0.050

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague) Project Manager

Applied	GeoSystems

CHAIN-OF-CUSTODY RECORD

PROJ. NO. 90/4-5 P.O. NO.	A	CT NAME CO / Moc Austra ERS (Signature) What Austral		/	Soline (8015)	7PHd(ese (8020)		AN	AL	YSI	Presen	, led?		
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43255 Mission Blvd. Suite B Fremont, CA 94539 (415) 651-1906

ANALYSIS REPORT

1020lab.frm

Attention: Mr. Bill Howell

Applied GeoSystems

43255 Mission Boulevard

Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

03-19-90

Date Received:

03-19-90

BTEX Analyzed: TPHg Analyzed:

03-20-90

TPHd Analyzed:

03-20-90 NR

Matrix:

Soil

Detection Limit:	Benzene ppm 0.050	Toluene ppm 0.050	Ethyl- benzene ppm 0.050	Total Xylenes ppm 0.050	TPHg <u>ppm</u> 2.0	TPHd <u>ppm</u> 10
SAMPLE Laboratory Identificat	tion					
S-0322-1(ABCD) S1003205	ND	ND	ND	0.054	9.6	NR
S-0322-2(ABCD) S1003206	ND	ND	ND	1.6	67	NR
S-0322-3(ABCD) S1003207	ND	ND	ND	0.071	110	NR

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Laboratory Representative

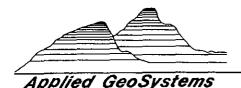
03-21-90

Date Reported

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CHAIN-OF-CUSTODY RECORD

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		·m	ahe 0940					Turn Around: 244			244/	Proj. Mgr.: Bill Howell							



Attention:

Project:

43255 Mission Blvd. Suite B Fremont, CA 94539 (415) 651-1906

ANALYSIS REPORT

03-22-90 03-22-90

1020lab.frm

Mr. Bill Howell Applied GeoSystems

43255 Mission Boulevard

BTEX Analyzed: TPHg Analyzed:

Date Sampled:

Date Received:

03-22-90 03-22-90

Fremont, CA 94539

TPHd Analyzed:

03-22-90 NR

AGS 19014-5

Matrix:

Soil

Detection Limit:	Benzene ppm 0.050	Toluene ppm 0.050	Ethyl- benzene ppm 0.050	Total Xylenes ppm 0.050	TPHg <u>ppm</u> 2.0	TPHd <u>ppm</u> 10
SAMPLE Laboratory Identificat	ion					
S-0322-3(ABCD) S1003253	ND	ND	ND	ND	59	NR

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Laboratory Representative

03-23-90
Date Reported

Applied	GeeSyst	emii

CHAIN-OF-CUSTODY RECORD

PROJ. NO. 19014-5 P.O NO	O. PROJECT NAME AICO Mac Arther SAMPLEBS (Signature)				80751	20)	13/	/	ANA!	LYS	77			
		Mad finiting	No. of Cont- ainers	/ /	Soline	1602/8)6/ (8/	/	//	/,	Presen	i Dear		LAPORATORY
DATE MM/DD/YY	TIME		Cont-	/Ž	8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/	/			\ \ \delta_{\text{E}}	REM	ARKS	LABORATORY I.D. NUMBER
03/26/90	7:00 an	5-0326-4A	1	V	7									
		5-15326-40		V	V			_	_ -	_	<u> </u>		····	
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RELINQUISHE FIELMOUISHE	gnature) mulf gnature):					Laboratory: Applied George func				Applied GeoSystems 43255 Mission Boulevard Fremont, California 95826				
RELINQUISH	ED BY (Signati	DATE / TIME RECEIVED FOR DE	/		,				<u> </u>				(415) 651-19	
			~		ν L				Tu	n A	round:	24/1	Proj. Mgr	: B:11 fagell



Applied GeoSystems

(415) 651-1906 Fremont, CA 94539 43255 Mission Blvd. Suite B

ANALYSIS REPORT

1020lab.frm

Mr. Bill Howell Attention:

Applied GeoSystems

43255 Mission Boulevard

Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

03-26-90

Date Received: BTEX Analyzed: 03-27-90

TPHg Analyzed:

03-27-90

TPHd Analyzed:

03-27-90 NR

Matrix:

Soil

Detection Limit:	Benzene ppm 0.050	Toluene ppm 0.050	Ethyl- benzene ppm 0.050	Total Xylenes ppm 0.050	TPHg <u>ppm</u> 2.0	TPHd <u>ppm</u> 10
SAMPLE Laboratory Identificat	ion					
S-0326-4(ABCD) S1003270	ND	ND	ND	0.13	69	NR

ppm = parts per million = mg/kg = milligrams per kilogram.

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

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

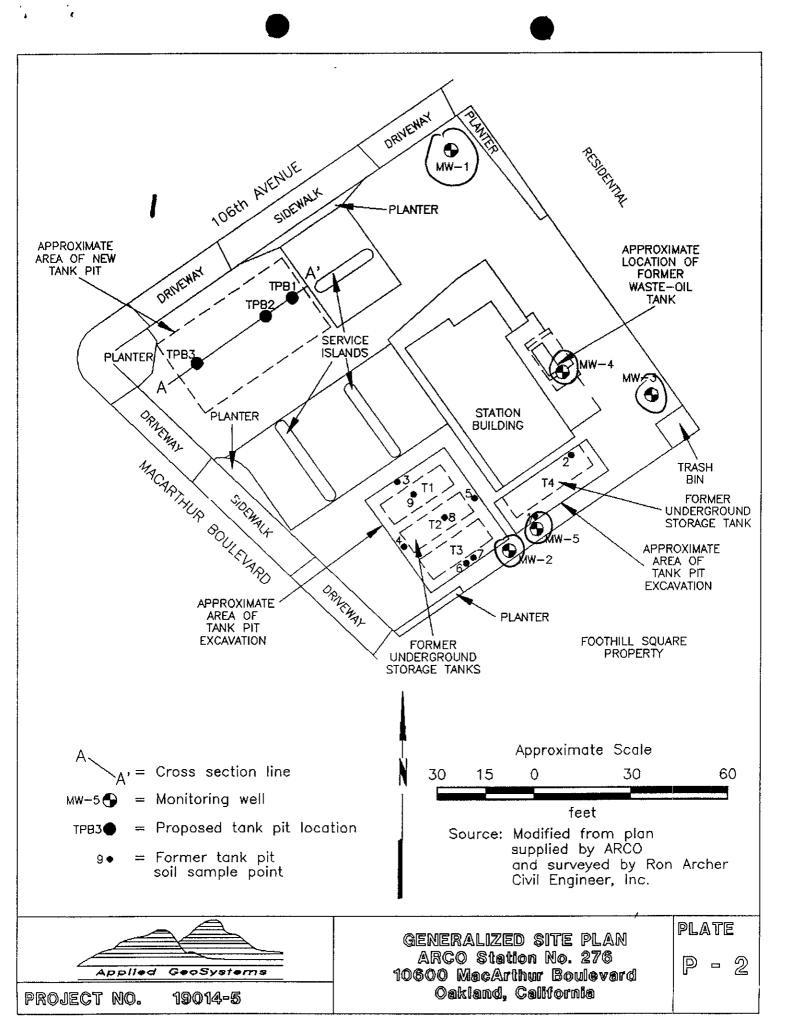
Laboratory Representative

Date Reported

CHAIN OF CUSTODY RECORD



SAMPLER (signature):	>	Applied GeoSys	stems								
Phone: 415-657-190	6	43255 Mission Blvti Suite B Fremont, CA 94539 4151651-1906									
Phone: 4/5-63/-170		SHIPPING INFORMATION: Shipper Address Date Shipped									
Project Leader: Bill Howe		Service Used Cooler No									
Phone No. 4/5-65-1-190 Relinquished by: (signatures)	36	eceived by: (signatures)	Date	Time							
Africa Maria	>										
	R	eceived for laboratory by:	2-9-90	0800							
Sample Sample Site No. Pr. Identification	Date	وبيكانا فيستر وخويها والمتاوي والمناوية والمناوية والمناوية والمناوية والمناوية والمناوية والمناوية والمناوية	M WITH THE ample Condit Upon Receip	ion							
No. pr. Identification 5-7-TP1SW() SFT 5-8-TP1NE (2) 5-13-TP2N (3) 5-13-TP2E (5) 5-10-TP2S (6) 5-12-TP2B m(3) 5-13-TP2BN (9) 5-13-TP2B	Sampled SF) A SF SF	SFJ SF		SFJ							



ATTACHMENT A.

SOIL SAMPLES TAKED AT BASE OF OUR TANK COMPLEX

DATA Point	Benzene	Toluene Ppm	Ethylbenzene 80M	Total Xylenes PPM	THE	TAH D Mag
	0.13	ND	NO	0,15	ив	NR
. 2	.088	au	00	NO	ND	NR
3	.32	.46	<i>.</i> 083	• 68	45	NR
4	. 24	.15	.094	.67	3.9	NB
5	.43	.95	.36	3.7	23	NR
6	13	:.10	<u>00</u>	.29	2.5	NR
7	1.8	**** 14	4 4/3.4	29	14 210	NR
8	.33	1.2	٥.7٦	6.1	42	NB
9	.86	5,5	6,7	43	360	NB
1	OF THE	TANK CAU	VTH 0F 8 П .			
3	.was tak	ATA COST	DEPTH OF 13	- 		
f.			000TH OF 13		The second secon	on was a see seen
.5	WAS TA	CED AT A	DEPTH OF 13	<u> </u>	!	
6	WAS TAK	A TA UZ	05PTH OF 10 F	ALDNG THE	SIDEWA	رد ه٦
1	THE TA	DK CAVITY			;	

ALL SAMPLING LOCATIONS WERE APPROVED BY THE ALAMEDA COUNTY DEPT. OF ENVIRONMENTAL HEALTH.

7 WAS THEED AT A DEPTH OF 12 A.

9 WAS TAKEN AT A DEPTH OF 13 ft.

8 WAS TAKEN AT A DEPTH OF 12 Ft.