

USH

ENGEO

INCORPORATED

2401 Crow Canyon Road

Suite 200

San Ramon, CA 94583

(510) 838-1600

Fax (510) 838-7425

FAX TRANSMITTAL

TO: Scott Seery

DATE: September 11, 1997

FROM: Shawn Munger/Keith Nowell

PROJECT NO.: 4186-F4

FAX NO.: 337-9335

SUBJECT: 5293 Crow Canyon Road - Castro Valley

CC:

TOTAL PAGES INCLUDING THIS PAGE: 14 / 15

REMARKS:

- Urgent
- For your review
- Reply ASAP
- Please comment
- This is the only copy you will receive
- A copy will also be sent via:
- U. S. Mail
- Overnight Mail
- Courier

Updated

Lab results and site plan for your review and comment. Please call to discuss.

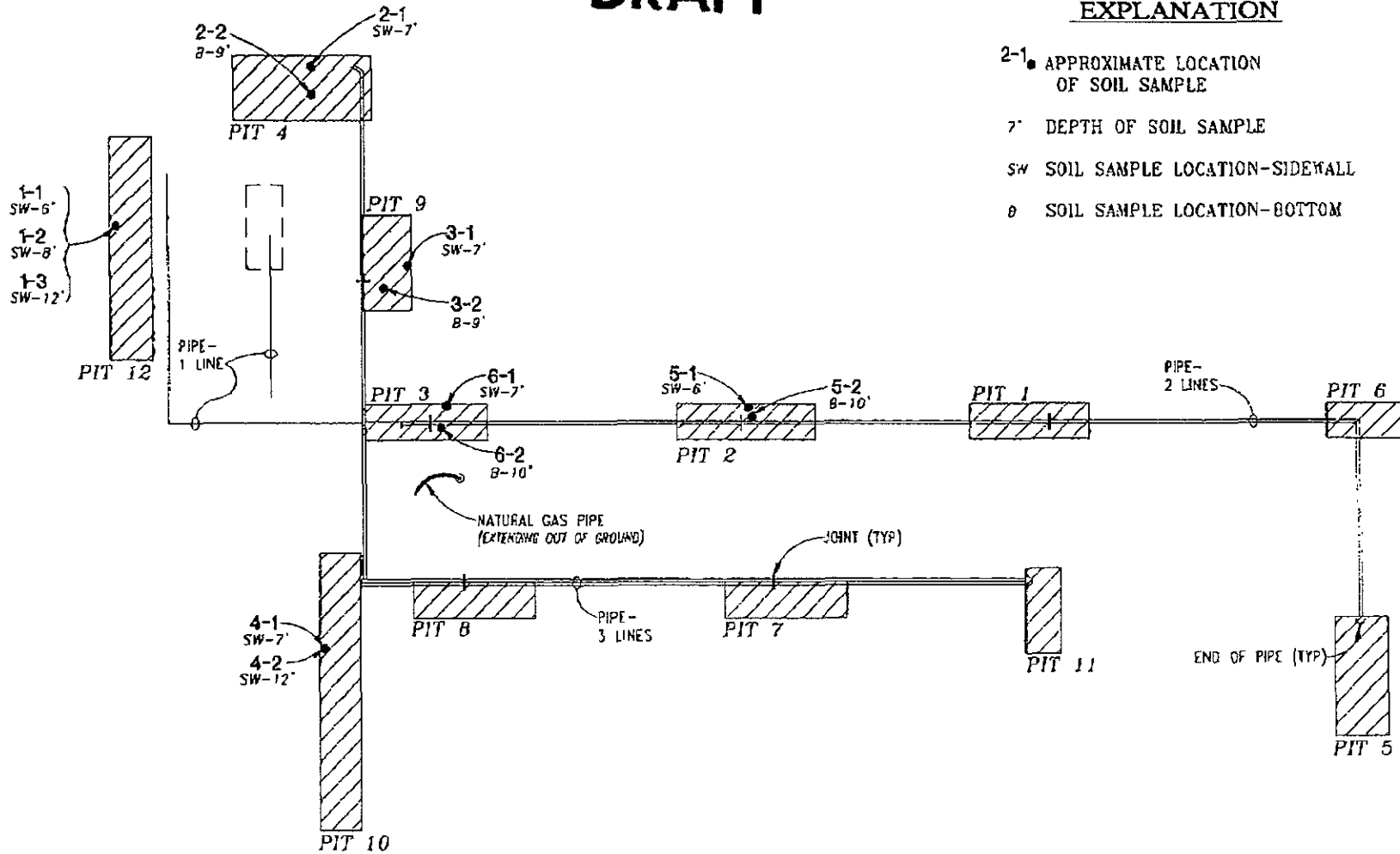
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CROW CANYON ROAD

DRAFT

EXPLANATION

- 2-1 • APPROXIMATE LOCATION OF SOIL SAMPLE
- 7' DEPTH OF SOIL SAMPLE
- SW SOIL SAMPLE LOCATION-SIDEWALL
- Ø SOIL SAMPLE LOCATION-BOTTOM



ENGEO
INCORPORATED

SITE PLAN
FORMER PARKER SHELL SITE
5293 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA

JOB NO.: 4186-F5
DATE: SEPTEMBER 1997
DRAWN BY: [Signature] CHECKED BY:

FIGURE NO.
A

SEP. -11 '97 (THU) 15:48 CHROMALAB, INC.

TEL: 510 484 1096

P. 007

CHROMALAB, INC.

Environmental Services (SES)

Revised from September 11, 1997

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Attn: Keith Norwell

Project: 5293 CROW CANYON RD
 Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
 Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 1-1

Spl#: 146438

Matrix: SOIL


Sampled: September 5, 1997


Run#: 8540

Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	17	12	N.D.	--	1
BENZENE	N.D.	0.05	N.D.	119	1
TOLUENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1

Note: Reporting Limits Increased Due To Sample Interference.


 Kayvan Kimyai
 Chemist


 Marianne Alexander
 Gas/BTEX Supervisor

OK

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 Federal ID #68-0140157

PH VIAL C: BTEX00220
 KAYVAN 10/30

SEP.-11'97(THU) 15:49 CHROMALAB, INC.

TEL:510 484 1096

P.008

CHROMALAB, INC.

Environmental Services (SDB)

Revised from September 11, 1997

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 1-2

Spl#: 146439

Matrix: SOIL

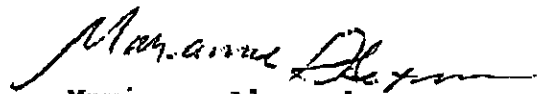
Sampled: September 5, 1997

Run#: 8540

Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
Note: Reporting Limits Increased Due To Sample Interference.					
GASOLINE	12	12	N.D.	--	1
BENZENE	0.14	0.05	N.D.	119	1
TOLUENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

exceed SST

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EN 01340-BTEX00220
LABOR 1431

SEP. -11 '97 (THU) 15:49 CHROMALAB, INC.

TEL: 510 484 1096

P. 009

CHROMALAB, INC.

Environmental Services (SDB)

Revised from September 11, 1997

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Attn: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 1-3

Spl#: 146440

Matrix: SOIL


Sampled: September 5, 1997

Run#: 8540

Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE SPIKE (%)	DILUTION FACTOR
Note: Reporting Limits Increased Due To Sample Interference.					
GASOLINE	56	12	N.D.	--	1
BENZENE	0.27	0.05	N.D.	119	1
TOLOENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1


 Kayvan Kimyai
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 FM 0136 0: BTEXQC0220
 KAYVAN (43)

SEP. -11' 97 (THU) 15:45 CHROMALAB, INC.

TEL: 510 484 1096

P. 001

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 2-1

Spl#: 146441

Matrix: SOIL

Sampled: September 5, 1997

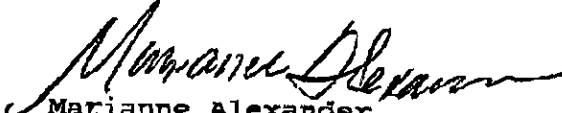
Run#: 8547

Analyzed: September 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	1.7	1.0	N.D.	116	1
BENZENE	0.071	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	0.093	0.0050	N.D.	90	1
XYLENES	0.026	0.0050	N.D.	85	1



Kayvan Kimyai
Chemist



Marianne Alexander
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FW 1120: BTEX00220
ALEXANDER 11.37

SEP.-11'97(THU) 15:45 CHROMALAB, INC.

TEL:510 484 1096

P.002

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGED, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-P5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 2-2

Spl#: 146442

Matrix: SOIL

Sampled: September 5, 1997

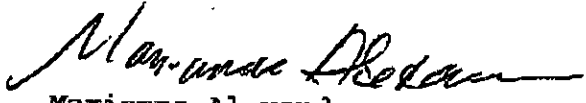
Run#: 8547

Analyzed: September 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	116	1
BENZENE	N.D.	0.0050	N.D.	91	1
TOLUENE	0.013	0.0050	N.D.	92	1
ETHYL BENZENE	0.0081	0.0050	N.D.	90	1
XYLENES	0.046	0.0050	N.D.	85	1

Note: Surrogate Recoveries demonstrate Matrix interference.


 Kayvan Kimyai
 Chemist


 Marianne Alexander
 Gas/BTEX Supervisor

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 Federal ID #98-0140157

 PW 1120: BTEN00220
 KAPLAN 11/16

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 3-1

Spl#: 146443

Matrix: SOIL


Sampled: September 5, 1997

Run#: 8547

Analyzed: September 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE SPIKE (%)	DILUTION FACTOR
GASOLINE	1.3	1.0	N.D.	116	1
BENZENE	0.014	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	0.035	0.0050	N.D.	90	1
XYLENES	0.093	0.0050	N.D.	85	1


 Kayvan Kimyai
 Chemist


 Marianne Alexander
 Gas/BTEX Supervisor

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 Federal ID #68-0140157

 PWS 1120: BTEX00220
 KAYVAN 11:20

SEP. -11 '97(THU) 15:50 CHROMALAB, INC

TEL:510 484 1096

P.011

CHROMALAB, INC.

Environmental Services (SOB)

Revised from September 11, 1997

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 3-2

Spl#: 146444

Sampled: September 5, 1997


Matrix: SOIL

Run#: 8540


Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	12	12	N.D.	--	1
BENZENE	N.D.	0.05	N.D.	119	1
TOLUENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1

Note: Reporting Limits Increased Due To Sample Interference. Surrogate Recoveries biased high due to Hydrocarbon co-elution.



Kayvan Kimyai
Chemist



Marianne Alexander
Gas/BTEX Supervisor

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Federal ID #68-0140157

FW 0135 Q:BTXRC0220
KAYVAN 14.32

SEP -11' 97 (THU) 15:46 CHROMALAB, INC.

TEL: 510 484 1096

P. 003

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-P5

re: One sample for Gasoline BTEX analysis.
Method: SW946 8020A Nov 1990 / 8015Mod

Client Sample ID: 4-1

Spl#: 146445

Sampled: September 5, 1997

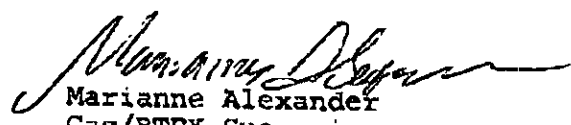
Matrix: SOIL

Run#: 8547

Analyzed: September 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	116	1
BENZENE	N.D.	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	N.D.	0.0050	N.D.	90	1
XYLENES	N.D.	0.0050	N.D.	85	1


 Kayvan Kimyai
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 Marianne Alexander
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 Federal ID #68-0140157

 PWV132 O: BTEXRC0220
 KAWAN 11 15

SEP. -11' 97 (THU) 15:50 CHROMALAB, INC.

TEL: 510 484 1096

P. 010

CHROMALAB, INC.

Environmental Services (SDB)

Revised from September 11, 1997

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 4-2

Spl#: 146446

Matrix: SOIL

Sampled: September 5, 1997

Run#: 8540


Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	23	12	N.D.	--	1
BENZENE	N.D.	0.05	N.D.	119	1
TOLUENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1

Note: Reporting Limits Increased Due To Sample Interference. Surrogate
Recoveries biased high due to Hydrocarbon co-elution.



Kayvan Kimyai
Chemist



Marianne Alexander
Gas/BTEX Supervisor

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Federal ID #68-0140157

FW 1150-BTEX00220
KATVAN 14:32

SEP. 11 '97 (THU) 15:48 CHROMALAB, INC.

TEL. 510 484 1096

P. 006

CHROMALAB, INC.

Environmental Services (SES)

September 11, 1997

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

Revised from September 11, 1997

Submission #: 9709085

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 5-1

Spl#: 146447

Sampled: September 5, 1997

Matrix: AIR

Run#: 8540

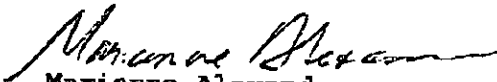
Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	26	12	N.D.	--	1
BENZENE	N.D.	0.05	N.D.	119	1
TOLUENE	N.D.	0.62	N.D.	100	1
ETHYL BENZENE	N.D.	0.62	N.D.	92	1
XYLENES	N.D.	0.62	N.D.	93	1

Note: Reporting Limits Increased Due To Sample Interference. Surrogate Recoveries biased high due to Hydrocarbon co-elution.



Kayvan Kimyai
Chemist



Marianne Alexander
Gas/BTEX Supervisor

ok

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Federal ID #68-0140157

PM 9709085 BTEXQC0220
KATLAB 1420

SEP.-12'97(FRI) 15:29 CHROMALAB, INC.

TEL:510 484 1096

P.001

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project#: 4186-F5

Project: 5293 CROW CANYON RD
Received: September 5, 1997

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod


Client Sample ID: 5-2


Spl#: 146448
Sampled: September 5, 1997

Matrix: SOIL
Run#: 8547

Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	116	1
BENZENE	N.D.	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	N.D.	0.0050	N.D.	90	1
XYLENES	N.D.	0.0050	N.D.	85	1


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

SEP.-12'97(FRI) 15:29 CHROMALAB, INC.

TEL:510 484 1096

P.002

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: 6-1

Spl#: 146449

Sampled: September 5, 1997

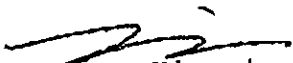
Matrix: SOIL


Run#: 8547

Analyzed: September 9, 1997

ANALYTE	RESULT	REPORTING	BLANK	BLANK	DILUTION
	(mg/Kg)	LIMIT	RESULT	SPIKE	
		(mg/Kg)	(mg/Kg)	(%)	FACTOR
GASOLINE	1.6	1.0	N.D.	116	1
BENZENE	N.D.	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	0.0056	0.0050	N.D.	90	1
XYLENES	N.D.	0.0050	N.D.	85	1

Note: Surrogate Recoveries biased high due to Hydrocarbon co-elution.


 Kayvan Kimyai
 Chemist


 Marianne Alexander
 Gas/BTEX Supervisor

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 Federal ID #68-0140157

 FBI V132 0: BTEXRC0220
 KAYVAN 11:46

SEP. -11 97 (THU) 16:09 CHROMALAB, INC.

TEL: 510 484 1096

P. 001

CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1997

Submission #: 9709085

ENGEO, INC.

Atten: Keith Norwell

Project: 5293 CROW CANYON RD
Received: September 5, 1997

Project#: 4186-F5

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

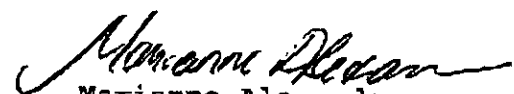
Client Sample ID: 6-2
Spl#: 146450
Sampled: September 5, 1997

Matrix: SOIL
Run#: 8547

Analyzed: September 9, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	116	1
BENZENE	0.0055	0.0050	N.D.	91	1
TOLUENE	N.D.	0.0050	N.D.	92	1
ETHYL BENZENE	0.0071	0.0050	N.D.	90	1
XYLENES	0.0053	0.0050	N.D.	85	1


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

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Federal ID #68-0140157

PM 11:32 D: BTEX00220
KAYVAN 9/11/97