

*10/16/2000*

Department of Environmental Health

Project No.  
4186-F2

May 19, 1997

JUN 23 1997

Mr. Jim Nylen  
Nylen Homes, Inc.  
87 W. March Lane, Suite 6  
Stockton, CA 95207

Subject: Former Parker's Shell  
5293 Crow Canyon Road  
Castro Valley, California

**ADDITIONAL CONSULTATION REGARDING  
RESIDENTIAL SITE CLOSURE**

- References:
1. Alameda County Environmental Health Services (ACEH); Letter Regarding Former Parker's Shell; 5293 Crow Canyon Road, Castro Valley, California; March 11, 1997.
  2. ENGEO Inc.; Response to Alameda County Letter, Former Parker's Shell at 5293 Crow Canyon Road, Castro Valley, California; March 17, 1997.

Dear Mr. Nylen:

At your request, ENGEO has provided additional soil sampling, laboratory analysis and risk assessment work, in support of a site closure for the subject property. The purpose of the additional services was to provide supplemental data to allow regulatory site closure of the property for planned residential development. The scope of services included the following:

- *Recovery of a composite sample from a soil stockpile with analysis for soluble lead ✓*
- *Recovery of two additional soil samples from areas of the property previously exhibiting total petroleum hydrocarbon and BTEX concentrations*
- *Preparation of a site-specific health risk assessment by a Certified Industrial Hygienist, in accordance with ASTM guidelines*

**SOIL STOCKPILES**

Soil stockpile "B", which was found to contain petroleum hydrocarbon contamination, will be removed from the property and disposed at an approved waste management facility. Stockpile "A",

which exhibited a slightly elevated total lead level, was resampled to determine the soluble lead concentration. A composite sample was recovered from the stockpile, consisting of a four point sample. The soil samples were recovered by hand using 2-inch-diameter stainless steel sampling tubes. Following recovery, the sample was placed in a cooled ice chest and transported under documented chain of custody to American Environmental Network, in Pleasant Hill, California.

#### IN - SITU CONFIRMATION SAMPLING

In order to verify existing subsurface benzene levels, which were previously identified at locations SB-1 and SB-8, ENGEO resampled the former sample locations at the depths shown in the previous characterization report.<sup>1</sup> The samples were recovered at a depth of five feet using a truck mounted rotary auger and a hand slide hammer equipped with 2-inch diameter stainless steel liners.

#### LABORATORY ANALYSIS

The composite sample from stockpile "A" was analyzed for soluble lead using the California Waste Extraction Test (WET). The discrete samples recovered from the approximate locations of borings SB-1 and SB-8 were analyzed for total volatile hydrocarbons as gasoline and BTEX. Table One provides a summary of the laboratory test results.

Sample No.	TPH(g)	Benzene	Toluene	E.Benzene	Xylenes	Lead (STLC)
SB-1A	ND	.0076	ND	.025	.063	-----
SB-8A	ND	ND	ND	ND	ND	-----
STKP-A	---	---	---	---	---	ND

#### ADDITIONAL ASTM RISK ASSESSMENT

A Tier II ASTM Risk Based Corrective Action Assessment was conducted by SCA Environmental, Inc (Attachments). The assessment included an evaluation of available information from Alameda County files, along with the current subsurface sampling and laboratory test data provided by ENGEO. The initial risk assessment conducted prior to the additional soil sampling/analysis, calculated a Site Specific Target Level (SSTL) of  $5.8 \times 10^{-3}$  mg/kg for benzene. This SSTL falls *below* the mean in-situ benzene level of  $5.2 \times 10^{-3}$  mg/kg. This level was extrapolated by SCA based on conservative degradation rates for benzene.

In order to further quantify the site-specific benzene data, ENGEO recovered confirmation soil samples from the locations of the previous recorded benzene data (SB-1 and SB-8). This reported data was incorporated into the ASTM Tier II analysis. At a 95 percent confidence interval, the

<sup>1</sup> Aqua Science Engineers, 1990.

Nylen Homes, Inc.  
Former Parker's Shell  
ADDITIONAL CONSULTATION REGARDING  
RESIDENTIAL SITE CLOSURE

4186-F2  
May 19, 1997  
Page 3

calculated benzene concentration is  $3.4 \times 10^{-3}$  mg/kg. This concentration falls below regulatory criteria for residential use.

#### SUMMARY AND CONCLUSIONS


Based on the additional soils sampling, laboratory analysis, and risk assessment conducted for the subject site, the property appears suitable for residential development.

We are pleased to be of continued service to you on this project. If you have any questions regarding the scope of the field and laboratory services or the findings of this report, please contact our office. At your request, a copy of this report has been provided to Ms. Amy Leech with the Alameda County Environmental Health Department.

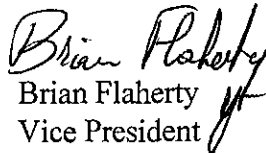
Very truly yours,

ENGEO INCORPORATED

Reviewed by:



Shawn Munger  
CHG 413



Brian Flaherty  
Vice President  
CEG 1256

sm/ce:consult



**Environmental, Inc.**

Engineering and Environmental Consultants

May 12, 1997

Mr. Shawn Munger  
Engeo Incorporated  
2401 Crow Canyon Road  
Suite 200  
San Ramon, CA 94583

FAX: (510) 838-7425

Re: Summary of Risk-Based Corrective Action Assessment  
Former Parker's Shell Facility - 5293 Crow Canyon Road  
Castro Valley, CA  
SCA Project No. F-2082

Dear Mr. Munger:

This letter report summarizes the risk assessment performed of the subject property. The assessment was performed by SCA Environmental, Inc. (SCA) under contract to Engeo, Inc.

**Background**

Underground storage tanks were removed from the site in February 1989, according to Alameda County Health Services Agency files. Subsequent soil sampling (conducted in 1990) at the site revealed the presence of benzene in soil in concentrations ranging from Non-Detect to 4.3 mg/kg.

Proposed uses for the property include residential development. The Lead Agency, Alameda County Health Care Services, requested a site-specific evaluation of risk to human health and the environment from exposure to the subsurface soil contamination left in place, specifically to the benzene in soil.

**Methodology**

The assessment calculations were performed by SCA using Groundwater Services, Inc. (GSI) Tier II® software.

The assessment focused on a *Soil Volatilization to Indoor Air* pathway, for a residential scenario. Other pathways were not considered in this assessment. Since groundwater at the site was not impacted, based upon extensive sampling conducted in 1990 and before, the *Soil Leaching to Groundwater* pathway was not considered.

Surface soils were expected to have minimal concentrations of the analytes of concern, given the 8 year lag time since the USTs were removed and any surface impact from product may have occurred. The surface soils are expected to be dramatically altered by the planned residential renovation, including excavated for foundations, landscaped, paved, terraced, etc. Based on SCA's experience at similar sites, this pathway would not pose a significant exposure to workers or residents, under this scenario. The net effect was that *Soil Volatilization to Outdoor Air* was not anticipated to be a significant exposure pathway and was not evaluated.

Note that California toxicity slope factors for benzene were used.

**Results**

1. An initial Tier 2 assessment was performed of soil sampling data from 1990 and before.
  - a. The Tier 2 assessment established a site-specific target level (SSTL) for benzene of  $5.8 \times 10^{-3}$  mg/kg,
  - b. The mean benzene level at the site was  $5.2 \times 10^{-3}$  mg/kg, or below the SSTL. This level is based upon the 1990 soil sampling data; a degradation rate for benzene of 0.009, which is

the slowest degradation reported in Table X3.2 of ASTM Standard E1739; and a 95% upper confidence limit calculation.

2. A decision was made to conduct soil sampling of the areas which were identified as having the highest levels of benzene in the 1990 sampling data. These locations were identified as SB-1 and SB-8 in the 1990 sampling reports. Engeo staff conducted sampling at these locations, with analysis by Chromalab, Inc. See Engeo's documents, provided under separate cover, which detail this sampling activity. Note that Engeo's staff designated the locations SB-1A and SB-8A, respectively.
3. SCA used the 1997 soil sampling results from SB-1A and SB-8A, and deleted the 1990 soil sampling data for SB-1 and SB-8. Using these results, a Tier 1 assessment was performed of the new data set.
  - a. Using the 1997 data, the mean benzene concentration at the site, based upon a 95% upper confidence limit calculation, was  $3.4 \times 10^{-3}$  mg/kg (see Appendix A, Tier 1 Worksheet 5.5).
  - b. This concentration was based upon the most conservative first order decay constants listed in Table X3.2 of ASTM Standard E1739; and upon standard Method Detection Limits (MDLs) for analytical methods used. (see Appendix B, RBCA Chemical Database).
  - c. The Tier 1 assessment established a Risk-Based Screening Level (RBSL) for benzene of  $5.8 \times 10^{-3}$  mg/kg, using the California toxicity slope factor of 0.1 for benzene (see Appendix C, Tier 1 Worksheet 6.2).
  - d. The mean benzene level at the site was  $3.4 \times 10^{-3}$  mg/kg, or below the RBSL, for the *Soil Volatilization to Indoor Air* pathway with a residential scenario.

#### Conclusions

The site appears acceptable to develop for residential use, based upon the data supplied to us and the assessment detailed herein.

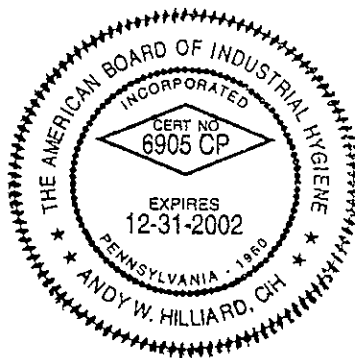
Please feel free to contact me at (415) 397-9936 with any questions or clarifications.

Sincerely,  
SCA ENVIRONMENTAL, INC.



Andy Hilliard, CIH, CSP, CHMM  
Regional Manager

- Appendix:
- A. Tier 1 Worksheet 5.5
  - B. RBCA Chemical Database
  - C. Tier 1 Worksheet 6.2



Appendix A  
Tier 1 Worksheet 5.5

Site Name: Parker's Shell Station  
 Site Location: Castro Valley

Completed By: Andy Hilliard  
 Date Completed: 5/2/1997

**TIER 1 SUBSURFACE SOIL CONCENTRATION DATA SUMMARY**

CONSTITUENTS DETECTED		Analytical Method	Detected Concentrations				
			Typical Detection Limit (mg/kg)	No. of Samples	No. of Detects	Maximum Conc. (mg/kg)	Mean Conc. (mg/kg)
CAS No.	Name						
71-43-2	Benzene	5.0E-03	39	6	2.4E-02	2.9E-03	3.4E-03
100-41-4	Ethylbenzene	5.0E-03	39	4	1.7E-01	3.4E-03	4.4E-03
108-88-3	Toluene	5.0E-03	39	5	1.6E-01	3.6E-03	4.8E-03
1330-20-7	Xylene (mixed isomers)	5.0E-03	39	7	3.2E-01	4.6E-03	6.9E-03

Serial: G-421-DSX-40

Software: GSI RBCA Spreadsheet  
 Version: 1.0.1

Appendix B  
RBCA Chemical Database



**RBCA CHEMICAL DATABASE**

Miscellaneous Chemical Data

CAS Number	Constituent	Maximum Contaminant Level		Permissible Exposure Limit PEL/TLV (mg/m3)	ref	Relative Absorption Factors		Detection Limits			Half Life (First-Order Decay) (days)		ref	
		MCL (mg/L)	reference			Oral	Dermal	Groundwater (mg/L)	Soil (mg/kg)	Saturated	Unsaturated			
71-43-2	Benzene	5.00E-03	52 FR 25690	3.20E+00	OSHA	1	0.5	0.002	C	0.005	S	720	720	H
100-41-4	Ethylbenzene	7.00E-01	56 FR 3526 (30 Jan 91)	4.34E+02	ACGIH	1	0.5	0.002	C	0.005	S	228	228	H
108-88-3	Toluene	1.00E+00	56 FR 3526 (30 Jan 91)	1.47E+02	ACGIH	1	0.5	0.002	C	0.005	S	28	28	H
1330-20-7	Xylene (mixed isomers)	1.00E+01	56 FR 3526 (30 Jan 91)	4.34E+02	ACGIH	1	0.5	0.005	C	0.005	S	360	360	H

Site Name: Parker's Shell Station

Site Location: Castro Valley

Completed By: Andy Hilliard

Date Completed: 5/2/1997

Software version: 1.0.1

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Appendix C  
Tier 1 Worksheet 6.2

# CHROMALAB, INC.

Environmental Services (SDB)

April 30, 1997

Submission #: 9704480

ENGEEO, INC.

Atten: Shawn Munger

Project: PARKER'S SHELL

Project#: 4186-F2

Received: April 29, 1997

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

Client Sample ID: SB-8A

Spl#: 129306


Matrix: SOIL

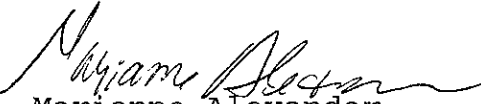
Sampled: April 29, 1997

Run#: 6558

Analyzed: April 29, 1997

<u>ANALYTE</u>	<u>RESULT</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	N.D.	1.0	N.D.	107	1
BENZENE	N.D.	0.0050	N.D.	104	1
TOLUENE	N.D.	0.0050	N.D.	100	1
ETHYL BENZENE	N.D.	0.0050	N.D.	102	1
XYLENES	N.D.	0.0050	N.D.	100	1

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

**RBCA SITE ASSESSMENT**

Tier 1 Worksheet 6.2

Site Name: Parker's Shell Station  
 Site Location: Castro Valley

Completed By: Andy Hilliard  
 Date Completed 5/2/1997

1 OF 1

**SUBSURFACE SOIL RBSL VALUES  
 (> 3.3 FT BGS)**

Target Risk (Class A & B) 1.0E-6  MCL exposure limit?  
 Target Risk (Class C) 1.0E-5  PEL exposure limit?  
 Target Hazard Quotient 1.0E+0

Calculation Option: 1

**RBSL Results For Complete Exposure Pathways ("x" If Complete)**

CONSTITUENTS OF CONCERN		Representative Concentration (mg/kg)	Soil Leaching to Groundwater			X	Soil Volatilization to Indoor Air		Soil Volatilization to Outdoor Air		Applicable RBSL (mg/kg)	RBSL Exceeded? * If yes	Required CRF
			Residential (on-site)	Commercial (on-site)	Regulatory (MCL) (on-site)		Residential (on-site)	Commercial (on-site)	Residential (on-site)	Commercial (on-site)			
71-43-2	Benzene	3.4E-3	NA	NA	NA	2.0E-2	NA	NA	NA	2.0E-2*	<input type="checkbox"/>	<1	
100-41-4	Ethylbenzene	4.4E-3	NA	NA	NA	7.1E+1	NA	NA	NA	7.1E+1	<input type="checkbox"/>	<1	
108-88-3	Toluene	4.8E-3	NA	NA	NA	2.8E+1	NA	NA	NA	2.8E+1	<input type="checkbox"/>	<1	
1330-20-7	Xylene (mixed isomers)	6.9E-3	NA	NA	NA	>Res	NA	NA	NA	>Res	<input type="checkbox"/>	<1	

>Res indicates risk-based target concentration greater than constituent residual saturation value

\* 2.0 E-2 x 0.29 for CA Benzene slope  
 = 5.8 x 10E-3 RBSL  
 AA

# CHROMALAB, INC.

Environmental Services (SDB)

April 30, 1997

Submission #: 9704480

ENGEO, INC.

Atten: Shawn Munger

Project: PARKER'S SHELL  
Received: April 29, 1997

Project#: 4186-F2

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

Client Sample ID: SB-1A

Spl#: 129307

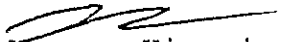
Matrix: SOIL


Sampled: April 29, 1997

Run#: 6558

Analyzed: April 29, 1997

<u>ANALYTE</u>	<u>RESULT</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	N.D.	1.0	N.D.	107	1
BENZENE	0.0076	0.0050	N.D.	104	1
TOLUENE	N.D.	0.0050	N.D.	100	1
ETHYL BENZENE	0.025	0.0050	N.D.	102	1
XYLENES	0.063	0.0050	N.D.	100	1

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

480/129300-129307

33427

**ENGEO**  
INCORPORATED

2401 CROW CANYON ROAD, SUITE 200  
SAN RAMON, CALIFORNIA 94583  
PHONE (510) 838-1600

**CHAIN OF CUSTODY RECORD**

PROJECT NUMBER		PROJECT NAME					TPH - GASOLINE (EPA 8015/5030)	TPH - DIESEL (EPA 8015/3550/3510)	PURGEABLE AROMATICS BTX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625, 8270)	TOTAL OIL & GREASE (SWW 5520(F))	OC PESTICIDES/PCB (EPA 608, 8080)	OP PESTICIDES (EPA 614/8140)	TITLE 26 METALS (17)	PRIORITY METALS (13)	REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE)																		
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE												
4186F2	PARKER'S SHELL																	
SAMPLED BY: (SIGNATURE)																		
[Signature] Shawn Minger																		
SB-8A	4-29-97	9:50	S	1	2 1/2 gal	ICE	X	X										JUN #: 9704480 REF: 1 CLIENT: ENGEO JE #: 04/30/97 EF #: 33427
SB-4A	4-29-97	10:00	S	1	2 1/2 gal	ICE	X	X										
<b>RUSH</b>																		
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)					
[Signature]			4-29-97 10:45		[Signature]													
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)					
					[Signature]													
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS								
					[Signature]					RUSH!! Need results by 12:00 4/30								

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# CHROMALAB, INC.

Environmental Service (SDB)

## Sample Receipt Checklist

Client Name: **ENGEO, INC.**

Date/Time Received: **04/29/97** | 1045

Reference/Submis: **33427** 19704480

Received by: MN

Checklist completed by: Chris Kowaly

Signature

4/30/97

Date

Reviewed by: MN 4/30/97

Initials | Date

Matrix: soil

Carrier name: Client C/L \_\_\_\_\_

- |                                                                         |                                         |                                                            |                                                                     |
|-------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|
| Shipping container/cooler in good condition?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>                                | Not Present <input type="checkbox"/>                                |
| Custody seals intact on shipping container/cooler?                      | Yes <input type="checkbox"/>            | No <input type="checkbox"/>                                | Not Present <input checked="" type="checkbox"/>                     |
| Custody seals intact on sample bottles?                                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/>                                | Not Present <input checked="" type="checkbox"/>                     |
| Chain of custody present?                                               |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received?                 |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Chain of custody agrees with sample labels?                             |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Samples in proper container/bottle?                                     |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Sample containers intact?                                               |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Sufficient sample volume for indicated test?                            |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| All samples received within holding time?                               |                                         |                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Container/Temp Blank temperature in compliance?                         |                                         | Temp: <u>6.5</u> °C                                        | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Water - VOA vials have zero headspace?                                  |                                         | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/>            |
| Water - pH acceptable upon receipt? <input checked="" type="checkbox"/> |                                         | Adjusted? <input type="checkbox"/>                         | Checked by _____<br>chemist for VOAs                                |

Any No and/or NA (not applicable) response must be detailed in the comments section below.  
=====

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# CHROMALAB, INC.

Environmental Services (SOB)

April 4, 1997

Submission #: 9703437

ENGE0, INC.

Atten: Shawn Munger

Project: FORMER PARKER'S SHELL  
Received: March 28, 1997

Project#: 4186-F2

re: 1 sample for STLC Lead analysis.  
Method: EPA 3005A/7420A

Sampled: March 28, 1997

Matrix: SOIL  
Run#: 6098

Extracted: April 4, 1997  
Analyzed: April 4, 1997

Spl#	CLIENT SPL ID	LEAD (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
123614	STKP-A	N.D.	1.0	N.D.	103	1

  
Shafiq Barekzai  
Chemist

  
John S. Labash  
Inorganics Supervisor



437-

SUIM #: 9705437 REF: PH  
CLIENT: ENGEO  
DUE: 04/04/97  
REF #: 32811

32811

# ENGEO

INCORPORATED

2401 CROW CANYON ROAD, SUITE 200  
SAN RAMON, CALIFORNIA 94583  
PHONE (510) 838-1600

## CHAIN OF CUSTODY RECORD

PROJECT NUMBER		PROJECT NAME					TFM - GASOLINE (EPA 8015/3030)	TFM - DIESEL (EPA 8015/3030/3310)	PURGEABLE AROMATICS STD. (EPA 802 8020)	PURGEABLE HALOCARBONS (EPA 001, 8010)	VOLATILE ORGANICS (EPA 824, 8240)	BASE/NEUTRALS, ACIDS (EPA 825, 8270)	TOTAL OIL & GREASE (SMB 3320(f))	OC PESTICIDES/PCB (EPA 808, 8080)	OP PESTICIDES (EPA 817/814)	TITLE 26 METALS (17)	PRIORITY METALS (13)	REMARKS REQUIRED DETECTION LIMITS	
4186-F2		FORMER PARKER'S SHELL																	
SAMPLED BY: (SIGNATURE) <i>[Signature]</i> Shawn M. Meyer																			
SAMPLE NUMBER	DATE	TIME	WATER	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE													
STK-A	3/20/97	12:40	S	4	2" X 6"	ICE													
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>						DATE/TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>				DATE/TIME	RECEIVED BY: (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE)						DATE/TIME	RECEIVED BY: (SIGNATURE)				DATE/TIME	RECEIVED BY: (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>						DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Chris Rowley</i>				DATE/TIME	REMARKS							
						3/20/97/1234					3/28/97/1734	5-DATAT							

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

P. 001  
TEL: 510 484 1096  
JUN. -20' 97 (FRI) 11:35 CHROMALAB, INC.