223

BRC C-124

HALEY & ALDRICH

ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

TECHNICAL MEMORANDUM

STOCKPILE PLACEMENT/DISPOSITION EVALUATION
STOCKPILES SP-17 AND SP-18

To: **Mr. Brian Mossman**
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: **Haley & Aldrich, Inc.**

Date: **October 17, 2001**

Re: **Stockpile Placement/Disposition Evaluation, Boeing Realty Corporation, Stockpiles SP-17 and SP-18, Former C-6 Facility – Parcel C, Los Angeles, California**

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the onsite placement and offsite transport of temporarily stockpiled excavated materials at Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel). These stockpiles are herein identified as Stockpiles SP-17 and SP-18.

OVERVIEW/PURPOSE

Potentially impacted materials identified during demolition monitoring activities have been excavated to expedite potential onsite remediation activities, thus, reducing the potential for affecting the current redevelopment schedule at the subject parcel. These materials were segregated by the location from which they were excavated and by known or suspected chemical impacts. Representative samples collected from these materials were evaluated using human health risk assessment and groundwater protection evaluation procedures to determine which of the temporary soil stockpiles could be reused onsite and which should be transported offsite to regulated treatment/disposal facilities. The evaluation methodology and the onsite placement/offsite transport recommendations are presented herein.

IDENTIFICATION OF STOCKPILED SOIL

Potentially impacted soils were identified for excavation based on field observations and the results of in-situ samples collected and analyzed following the Los Angeles Regional Water Quality Control Board (LARWQCB)-approved sampling and analysis plan for the subject parcel and the subsequent LARWQCB-approved addendum and supplements.

Stockpiles SP-17 and SP-18 were generated from onsite excavations. Stockpile SP-17 contains approximately 35 cubic yards of soil. Stockpile SP-18 contains approximately 50 cubic yards of soil.

STOCKPILE CHARACTERIZATION METHODOLOGY

Soil samples obtained from each of the apparently impacted areas from which stockpiles SP-17 and SP-18 were generated were used to characterize the associated stockpiled soil. In addition, one soil sample was later obtained from stockpile SP-18 and tested for volatile organic compounds (VOCs), extractable petroleum hydrocarbons, metals, and polynuclear aromatic hydrocarbons (PAHs). It is assumed that these samples represent the maximum concentrations of chemicals detected in their respective stockpile. The samples obtained from stockpiles SP-17 and SP-18 are discrete samples. Each of the stockpile samples was tested for suspected chemical constituents following the protocols presented in the LARWQCB-approved sampling and analysis plan for the subject parcel and the subsequent LARWQCB-approved addendum and supplements.

STOCKPILE EVALUATION METHODOLOGY

The stockpile sample results were evaluated using screening human health risk assessment (SRA) procedures as described in the November 29, 2000 Risk Assessment Work Plan (RAWP) for the subject parcel following the decision process summarized in Figure 1. In addition, maximum VOC concentrations for each stockpile was evaluated to assess whether VOC concentrations in the stockpiles have the potential to degrade existing groundwater quality. The evaluation procedures used herein are similar to those used during the placement evaluation of stockpiles SP-1 through SP-16.

Human Health Risk Evaluation

The maximum concentrations detected in each stockpile were separately compared to the maximum concentrations detected within each of three areas of subject parcel. These three areas of the subject parcel are identified as the Building 1 Exposure Area, the Building 2 Exposure Area, and the Parcel C Exposure Area (Figure 2). The Building 1 and 2 Exposure Areas are defined by two areas of elevated VOC impacts at and in proximity to former Buildings 1 and 2, respectively. The remaining portion of the subject parcel (Parcel C Exposure Area) contains relatively lower chemical concentrations and/or smaller impacted areas. Where the stockpile concentrations were greater than the maximum in-situ concentrations they were used in the SRA calculations to assess whether adding the stockpile to that area resulted in risk above the LARWQCB- and Office of Environmental Health Hazard Assessment (OEHHA)-approved target risk levels.

Groundwater Protection Evaluation

Even though shallow groundwater beneath and in proximity to the subject parcel is not used as a domestic water supply, the evaluation conservatively assumed potential downward chemical migration from soil resulting in possible degradation of the Bellflower aquitard to levels greater than the California drinking water standards (i.e. Maximum Contaminant Levels [MCLs]). The

BOE-C6-0233365

assessment was conducted assuming a conservative scenario regarding chemical migration and mixing in groundwater following approved EPA and LARWQCB methodology and assumptions. This evaluation was conducted by comparing maximum VOC concentrations to site-specific soil screening levels (SSLs) derived from primary MCLs.

Initial site-specific SSLs were derived using the formula presented in Section 2.5 of the EPA document entitled *Soil Screening Guidance: Technical Background Document (TBD),* dated July 1996, and site-specific geotechnical parameters. The EPA SSL equation is a partitioning formula, which does not account for chemical attenuation during migration in soil or mixing with groundwater. To better represent contaminant migration in the soil column, an attenuation factor of 13 was applied to the initial SSL. This attenuation factor was obtained from Table 5-14 of the LARWQCB's May 1996 *Interim Site Assessment & Cleanup Guidebook*, assuming site-specific average soil particle size distributions, and a distance of 53 feet from soil impacts to the groundwater table (i.e., stockpiled material to be placed onsite at a maximum depth of 12 feet below ground surface (bgs) or shallower, and the water table is located at a depth of 65 feet bgs). An EPA default dilution attenuation factor (DAF) of 20 was also applied to the initial SSL to account for limited groundwater mixing. This EPA default value is presented in the above-referenced July 1996 EPA document, and was used by EPA to develop generic SSLs. The resulting site-specific SSL is, thus, equal to the initial SSL (assuming no soil attenuation or groundwater mixing) multiplied by the product of a soil attenuation factor of 13 and a groundwater mixing factor of 20.

RECOMMENDATIONS

The recommendation for onsite reuse of each stockpile is based on whether the target risk levels of the area of the subject parcel are exceeded after addition of the maximum concentrations detected in that stockpile and on whether maximum VOC concentrations may degrade groundwater quality to concentrations greater than MCLs. If the estimated risk remains below the target risk levels for that area of the subject parcel and VOC concentrations would not degrade groundwater quality to concentrations greater than MCLs, it is recommended that the stockpile be reused in that area of the subject parcel. If the estimated risk is greater than a target risk level or if VOC concentrations may degrade groundwater quality to concentrations greater than MCLs, it is recommended that the stockpile be transported offsite at a regulated treatment/disposal facility.

A summary of the recommendations for the stockpiles is presented in Table 1. The laboratory data for the stockpile samples is presented in Appendix A, and the SSL calculations are presented in Appendix B.

BOE-C6-0233366

Should you have any questions concerning the contents of this memorandum or require additional information, please contact either of the undersigned.

Sincerely yours,
HALEY & ALDRICH, INC.

Anita Broughton, REA, CIH
Risk Assessment Task Manager

Richard M. Farson, PE
Senior Engineer

Attachments:

Figure 1	Soil Stockpile Reuse Protocol
Figure 2	Parcel C Exposure Areas
Table 1	Recommendations for Stockpiles SP-17 and SP-18
Appendix A	Laboratory Reports
Appendix B	Soil Screening Level (SSL) Calculations

BOE-C6-0233367

Tables

BOE-C6-0233368

Table 1
Recommendations for Stockpiles SP-17 and SP-18
BRC Former C-6 Facility, Los Angeles, California

Stockpile No.	Sample IDs	Approx. Volume	Analyses	Acceptable for Onsite Reuse? (Yes or No)	Restrictions on Parcel C Placement?	Recommendations
SP-17	C-13-060101-1, C-13-080101-8, C-13-060101-2, C-13-060101-3	~ 35 cy	PAHs	No	NA	Not acceptable for onsite reuse due to elevated PAH results. Results from soil samples collected from impacted areas during excavation contained PAH that resulted in estimated health risks above target risk levels. Treat/dispose of offsite at a regulated facility.
SP-18	C-32-4-1, SP-18-082701-1	~50 cy	Metals, VOCs, TPH, PAH	No	NA	Not acceptable for onsite reuse due to elevated VOC results. Results from soil samples collected from impacted areas during excavation contained VOC that resulted in estimated health risks above target risk levels. Detected VOCs also pose a threat to groundwater quality at levels greater than MCLs. Treat/dispose of offsite at a regulated facility.

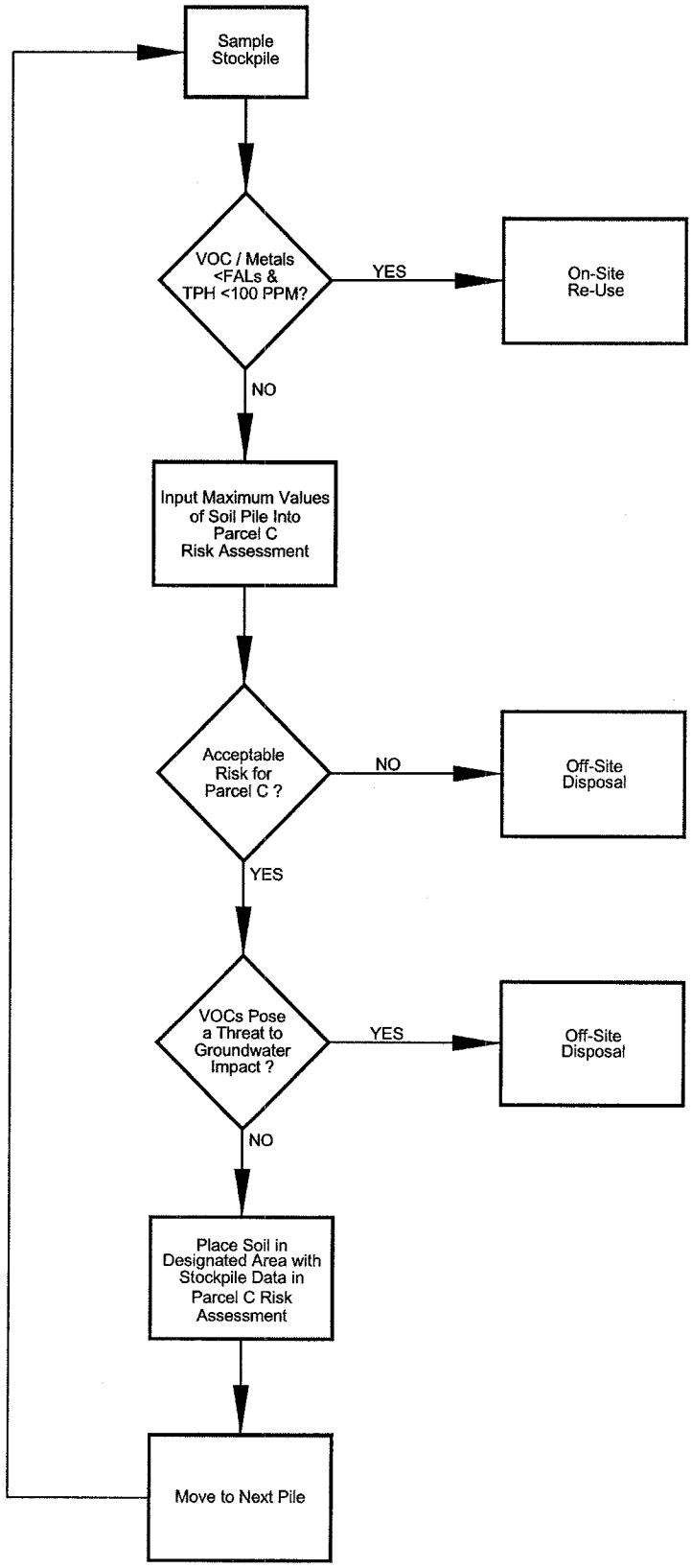
cy = cubic yards

BOE-C6-0233369

Figures

BOE-C6-0233370

FORMER C-6 FACILITY
SOIL STOCKPILE RE-USE PROTOCOL



ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING

FIGURE 1

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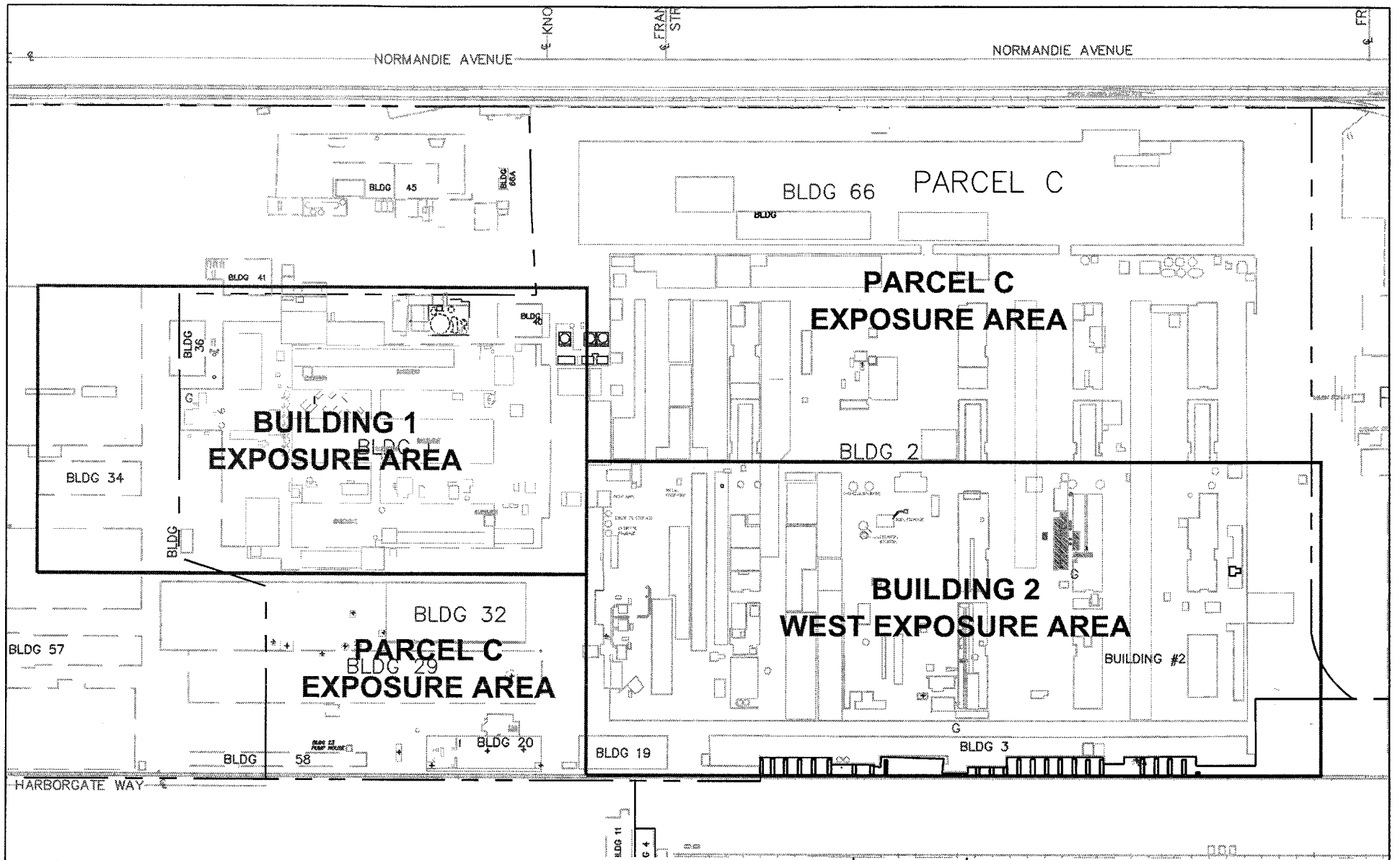

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

FORMER BOEING C-6 FACILITY
LOS ANGELES, CALIFORNIA

PARCEL C
EXPOSURE AREAS

FIGURE 2

18 JULY, 2001

BOE-C6-0233372

Appendix A

BOE-C6-0233373

APPENDIX A

LABORATORY REPORTS

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: E1F010310

Sampled: 06/01/01
Received: 06/05/01
Reported: 06/11/01

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKF0043-01 (Build_1_C_13_060101_1 - Soil)								
cenaphthene	EPA 8310	C1F0512	500	ND	10	6/5/01	6/7/01	
Acenaphthylene	EPA 8310	C1F0512	500	ND	10	6/5/01	6/7/01	
Anthracene	EPA 8310	C1F0512	20	ND	10	6/5/01	6/7/01	
enzo(a)anthracene	EPA 8310	C1F0512	20	**77**	10	6/5/01	6/7/01	
Benzo(a)pyrene	EPA 8310	C1F0512	20	**110**	10	6/5/01	6/7/01	
Benzo(b)fluoranthene	EPA 8310	C1F0512	50	**90**	10	6/5/01	6/7/01	
enzo(g,h,i)perylene	EPA 8310	C1F0512	50	**94**	10	6/5/01	6/7/01	
enzo(k)fluoranthene	EPA 8310	C1F0512	20	**43**	10	6/5/01	6/7/01	
Chrysene	EPA 8310	C1F0512	50	**70**	10	6/5/01	6/7/01	
ibenzo(a,h)anthracene	EPA 8310	C1F0512	50	**120**	10	6/5/01	6/7/01	
uoranthene	EPA 8310	C1F0512	50	**130**	10	6/5/01	6/7/01	
Fluorene	EPA 8310	C1F0512	50	ND	10	6/5/01	6/7/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1F0512	50	**68**	10	6/5/01	6/7/01	
aphthalene	EPA 8310	C1F0512	200	ND	10	6/5/01	6/7/01	
Phenanthrene	EPA 8310	C1F0512	50	ND	10	6/5/01	6/7/01	
Pyrene	EPA 8310	C1F0512	50	**110**	10	6/5/01	6/7/01	
Surrogate: 2-Methylanthracene (35-115%)				*89.9 %*				
Sample ID: CKF0043-02 (Build_1_C_13_060101_2 - Soil)								
Acenaphthene	EPA 8310	C1F0512	500	**1400**	10	6/5/01	6/7/01	
cenaphthylene	EPA 8310	C1F0512	500	ND	10	6/5/01	6/7/01	
nthracene	EPA 8310	C1F0512	20	**32**	10	6/5/01	6/7/01	
Benzo(a)anthracene	EPA 8310	C1F0512	20	**260**	10	6/5/01	6/7/01	
enzo(a)pyrene	EPA 8310	C1F0512	20	**360**	10	6/5/01	6/7/01	
enzo(b)fluoranthene	EPA 8310	C1F0512	50	**290**	10	6/5/01	6/7/01	
Benzo(g,h,i)perylene	EPA 8310	C1F0512	50	**280**	10	6/5/01	6/7/01	
enzo(k)fluoranthene	EPA 8310	C1F0512	20	**150**	10	6/5/01	6/7/01	
hrysene	EPA 8310	C1F0512	50	**200**	10	6/5/01	6/7/01	
Dibenzo(a,h)anthracene	EPA 8310	C1F0512	50	**390**	10	6/5/01	6/7/01	
luoranthene	EPA 8310	C1F0512	50	**500**	10	6/5/01	6/7/01	
uorene	EPA 8310	C1F0512	50	**61**	10	6/5/01	6/7/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1F0512	50	**230**	10	6/5/01	6/7/01	
Naphthalene	EPA 8310	C1F0512	200	ND	10	6/5/01	6/7/01	
henanthrene	EPA 8310	C1F0512	50	**200**	10	6/5/01	6/7/01	
Pyrene	EPA 8310	C1F0512	50	**360**	10	6/5/01	6/7/01	
Surrogate: 2-Methylanthracene (35-115%)				*129 %*				*ZX*

el Mar Analytical, Colton
lifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKF0043-03 (Build_1_C_13_060101_3 - Soil)								
cenaphthene	EPA 8310	C1F0512	1000	**1800**	20	6/5/01	6/7/01	
Acenaphthylene	EPA 8310	C1F0512	1000	ND	20	6/5/01	6/7/01	
nthracene	EPA 8310	C1F0512	40	**40**	20	6/5/01	6/7/01	
enzo(a)anthracene	EPA 8310	C1F0512	40	**360**	20	6/5/01	6/7/01	
Benzo(a)pyrene	EPA 8310	C1F0512	40	**500**	20	6/5/01	6/7/01	
Benzo(b)fluoranthene	EPA 8310	C1F0512	100	**410**	20	6/5/01	6/7/01	
enzo(g,h,i)perylene	EPA 8310	C1F0512	100	**400**	20	6/5/01	6/7/01	
enzo(k)fluoranthene	EPA 8310	C1F0512	40	**200**	20	6/5/01	6/7/01	
Chrysene	EPA 8310	C1F0512	100	**180**	20	6/5/01	6/7/01	
ibenzo(a,h)anthracene	EPA 8310	C1F0512	100	**580**	20	6/5/01	6/7/01	
uoranthene	EPA 8310	C1F0512	100	**700**	20	6/5/01	6/7/01	
Fluorene	EPA 8310	C1F0512	100	ND	20	6/5/01	6/7/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1F0512	100	**340**	20	6/5/01	6/7/01	
aphthalene	EPA 8310	C1F0512	400	ND	20	6/5/01	6/7/01	
Phenanthrene	EPA 8310	C1F0512	100	**220**	20	6/5/01	6/7/01	
rene	EPA 8310	C1F0512	100	**640**	20	6/5/01	6/7/01	
urrogate: 2-Methylanthracene (35-115%)				*146 %*				*ZX*

el Mar Analytical, Colton
lifton J. Kiser
Project Manager

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Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1F0512 Extracted: 06/05/01										
Blank Analyzed: 06/06/01 (C1F0512-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	50	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	20	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*4.70*		*ug/kg*	*8.00*		*58.7*	*35-115*			
LCS Analyzed: 06/06/01 (C1F0512-BS1)										
Acenaphthene	52.3	50	ug/kg	80.0		65.4	45-115			
Acenaphthylene	120	50	ug/kg	160		75.0	50-115			
Anthracene	5.67	2.0	ug/kg	8.00		70.9	55-115			
Benzo(a)anthracene	6.64	2.0	ug/kg	8.00		83.0	65-115			
Benzo(a)pyrene	5.91	2.0	ug/kg	8.00		73.9	55-115			
Benzo(b)fluoranthene	12.7	5.0	ug/kg	16.0		79.4	65-115			
Benzo(g,h,i)perylene	13.5	5.0	ug/kg	16.0		84.4	60-115			
Benzo(k)fluoranthene	6.13	2.0	ug/kg	8.00		76.6	65-115			
Chrysene	6.21	5.0	ug/kg	8.00		77.6	65-115			
Dibenzo(a,h)anthracene	12.8	5.0	ug/kg	16.0		80.0	60-115			
Fluoranthene	13.2	5.0	ug/kg	16.0		82.5	65-115			
Fluorene	11.2	5.0	ug/kg	16.0		70.0	55-115			
Indeno(1,2,3-cd)pyrene	6.25	5.0	ug/kg	8.00		78.1	55-115			
Naphthalene	54.4	20	ug/kg	80.0		68.0	45-115			
Phenanthrene	5.53	5.0	ug/kg	8.00		69.1	55-120			
Pyrene	6.36	5.0	ug/kg	8.00		79.5	55-115			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles
721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1F0512 Extracted: 06/05/01										
LCS Analyzed: 06/06/01 (C1F0512-BS1)										
Surrogate: 2-Methylanthracene	*5.65*		*ug/kg*	*8.00*		*70.6*	*35-115*			
Matrix Spike Analyzed: 06/07/01 (C1F0512-MS1)					**Source: CKF0043-01**					
Acenaphthene	859	500	ug/kg	80.0	ND	661	40-115			*M-HA*
Acenaphthylene	ND	500	ug/kg	160	ND	77.5	35-130			
Anthracene	23.2	20	ug/kg	8.00	ND	204	40-115			*M-HA*
Benzo(a)anthracene	191	20	ug/kg	8.00	77	1430	45-130			*M-HA*
Benzo(a)pyrene	241	20	ug/kg	8.00	110	1640	50-115			*M-HA*
Benzo(b)fluoranthene	206	50	ug/kg	16.0	90	725	40-130			*M-HA*
Benzo(g,h,i)perylene	147	50	ug/kg	16.0	94	331	45-115			*M-HA*
Benzo(k)fluoranthene	101	20	ug/kg	8.00	43	725	40-125			*M-HA*
Chrysene	174	50	ug/kg	8.00	70	1300	45-125			*M-HA*
Dibenzo(a,h)anthracene	249	50	ug/kg	16.0	120	806	25-130			*M-HA*
Fluoranthene	350	50	ug/kg	16.0	130	1380	50-135			*M-HA*
Fluorene	ND	50	ug/kg	16.0	ND	104	35-120			
Indeno(1,2,3-cd)pyrene	152	50	ug/kg	8.00	68	1050	40-120			*M-HA*
Naphthalene	ND	200	ug/kg	80.0	ND	73.4	30-115			
Phenanthrene	92.6	50	ug/kg	8.00	ND	607	30-160			*M-HA*
Pyrene	312	50	ug/kg	8.00	110	2530	20-165			*M-HA*
Surrogate: 2-Methylanthracene	*9.28*		*ug/kg*	*8.00*		*116*	*35-115*			*M-HA*
Matrix Spike Dup Analyzed: 06/07/01 (C1F0512-MSD1)					**Source: CKF0043-01**					
Acenaphthene	515	500	ug/kg	80.0	ND	231	40-115	50.1	25	*M-HA*
Acenaphthylene	ND	500	ug/kg	160	ND	93.8	35-130	19.0	25	
Anthracene	ND	20	ug/kg	8.00	ND	145	40-115	22.5	25	*M-HA*
Benzo(a)anthracene	113	20	ug/kg	8.00	77	450	45-130	51.3	20	*M-HA*
Benzo(a)pyrene	145	20	ug/kg	8.00	110	438	50-115	49.7	20	*M-HA*
Benzo(b)fluoranthene	125	50	ug/kg	16.0	90	219	40-130	48.9	25	*M-HA*
Benzo(g,h,i)perylene	129	50	ug/kg	16.0	94	219	45-115	13.0	20	*M-HA*
Benzo(k)fluoranthene	62.6	20	ug/kg	8.00	43	245	40-125	46.9	25	*M-HA*
Chrysene	98.6	50	ug/kg	8.00	70	357	45-125	55.3	30	*M-HA*
Dibenzo(a,h)anthracene	136	50	ug/kg	16.0	120	100	25-130	58.7	30	*M-HA*
Fluoranthene	197	50	ug/kg	16.0	130	419	50-135	55.9	25	*M-HA*
Fluorene	ND	50	ug/kg	16.0	ND	-21.9	35-120	89.1	20	*M-HA*
Indeno(1,2,3-cd)pyrene	88.3	50	ug/kg	8.00	68	254	40-120	53.0	20	*M-HA*

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Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1F0512 Extracted: 06/05/01										
Matrix Spike Dup Analyzed: 06/07/01 (C1F0512-MSD1)					**Source: CKF0043-01**					
Naphthalene	ND	200	ug/kg	80.0	ND	61.9	30-115	17.0	25	
Phenanthrene	66.9	50	ug/kg	8.00	ND	286	30-160	32.2	30	*M-HA*
Pyrene	165	50	ug/kg	8.00	110	688	20-165	61.6	20	*M-HA*
Surrogate: 2-Methylanthracene	*8.97*		*ug/kg*	*8.00*		*112*	*35-115*			

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Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1F010310

Report Number: CKF0043

Sampled:06/01/01
Received:06/05/01

DATA QUALIFIERS AND DEFINITIONS

M-HA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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Chain of Custody Record

Quanterra

QUA-4124 0797

Client: STL - LA	Project Manager: Diane Suzuki	Date: 6/02/01	Chain of Custody Number: 07545
Address: 1721 S Grand Ave.	Telephone Number (Area Code)/Fax Number: (714) 258 8610 * 309	Lab Number: EIF010310	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact:	
Project Name: Kennedy/Jenks	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8310 / PAH	Special Instructions/ Conditions of Receipt
Build_1_C_13_060101_1	6-1-01	10:36			x		1							✓	EIF010310_022
_2	↓	10:39			x		1							✓	-023
_3	↓	10:40			x		1							✓	-024

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 4 B Days

QC Requirements (Specify):

1. Relinquished By: Raycalta	Date: 6/02/01	Time: 11:45	1. Received By: [illegible]	Date: 6-4-01	Time: 1600
2. Relinquished By: [illegible]	Date: 6-5-01	Time: 0925	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By: M. [illegible]	Date: 6-5-01	Time: 9:25

Comments: 3°C

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000047

BOE-C6-0233382

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LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: E1H010342

Sampled: 08/01/01
Received: 08/01/01
Reported: 08/03/01

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKH0016-06 (Bldg 1-C-13-080101-7 - Soil)								
cenaphthene	EPA 8310	C1H0204	1000	ND	20	8/2/01	8/2/01	
Acenaphthylene	EPA 8310	C1H0204	4000	ND	20	8/2/01	8/2/01	
Anthracene	EPA 8310	C1H0204	40	**82**	20	8/2/01	8/2/01	
enzo(a)anthracene	EPA 8310	C1H0204	40	**140**	20	8/2/01	8/2/01	
enzo(a)pyrene	EPA 8310	C1H0204	40	**150**	20	8/2/01	8/2/01	
Benzo(b)fluoranthene	EPA 8310	C1H0204	100	**210**	20	8/2/01	8/2/01	
nzo(g,h,i)perylene	EPA 8310	C1H0204	100	ND	20	8/2/01	8/2/01	
nzo(k)fluoranthene	EPA 8310	C1H0204	40	**110**	20	8/2/01	8/2/01	
Chrysene	EPA 8310	C1H0204	100	**170**	20	8/2/01	8/2/01	
benzo(a,h)anthracene	EPA 8310	C1H0204	100	ND	20	8/2/01	8/2/01	
uoranthene	EPA 8310	C1H0204	100	**280**	20	8/2/01	8/2/01	
Fluorene	EPA 8310	C1H0204	100	**130**	20	8/2/01	8/2/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1H0204	100	**120**	20	8/2/01	8/2/01	
phthalene	EPA 8310	C1H0204	800	ND	20	8/2/01	8/2/01	
Phenanthrene	EPA 8310	C1H0204	100	**170**	20	8/2/01	8/2/01	
Pyrene	EPA 8310	C1H0204	100	**170**	20	8/2/01	8/2/01	
urrogate: 2-Methylanthracene (35-115%)				*252 %*				*Z3*
Sample ID: CKH0016-07 (Bldg 1-C-13-080101-8 - Soil)								
Acenaphthene	EPA 8310	C1H0204	1000	**2500**	20	8/2/01	8/2/01	
enaphthylene	EPA 8310	C1H0204	4000	ND	20	8/2/01	8/2/01	
thracene	EPA 8310	C1H0204	40	**130**	20	8/2/01	8/2/01	
Benzo(a)anthracene	EPA 8310	C1H0204	40	**520**	20	8/2/01	8/2/01	
nzo(b)fluoranthene	EPA 8310	C1H0204	100	**670**	20	8/2/01	8/2/01	
nzo(g,h,i)perylene	EPA 8310	C1H0204	100	**500**	20	8/2/01	8/2/01	
Chrysene	EPA 8310	C1H0204	100	**550**	20	8/2/01	8/2/01	
benzo(a,h)anthracene	EPA 8310	C1H0204	100	ND	20	8/2/01	8/2/01	
oranthene	EPA 8310	C1H0204	100	**970**	20	8/2/01	8/2/01	
Fluorene	EPA 8310	C1H0204	100	**190**	20	8/2/01	8/2/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1H0204	100	**460**	20	8/2/01	8/2/01	
phthalene	EPA 8310	C1H0204	800	ND	20	8/2/01	8/2/01	
Phenanthrene	EPA 8310	C1H0204	100	**400**	20	8/2/01	8/2/01	
Pyrene	EPA 8310	C1H0204	100	**730**	20	8/2/01	8/2/01	
urrogate: 2-Methylanthracene (35-115%)				*296 %*				*Z3*

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fton J. Kiser
Project Manager

000058

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKH0016-07RE1 (Bldg 1-C-13-080101-8 - Soil)								
enzo(a)pyrene	EPA 8310	C1H0204	160	**830**	80	8/2/01	8/2/01	
Benzo(k)fluoranthene	EPA 8310	C1H0204	160	**530**	80	8/2/01	8/2/01	
Sample ID: CKH0016-08 (Bldg 1-C-13-080101-9 - Soil)								
cenaphthene	EPA 8310	C1H0204	500	ND	10	8/2/01	8/2/01	
Acenaphthylene	EPA 8310	C1H0204	2000	ND	10	8/2/01	8/2/01	
Anthracene	EPA 8310	C1H0204	20	**37**	10	8/2/01	8/2/01	
enzo(a)anthracene	EPA 8310	C1H0204	20	**100**	10	8/2/01	8/2/01	
enzo(a)pyrene	EPA 8310	C1H0204	20	**120**	10	8/2/01	8/2/01	
Benzo(b)fluoranthene	EPA 8310	C1H0204	50	**150**	10	8/2/01	8/2/01	
nzo(g,h,i)perylene	EPA 8310	C1H0204	50	**120**	10	8/2/01	8/2/01	
nzo(k)fluoranthene	EPA 8310	C1H0204	20	**76**	10	8/2/01	8/2/01	
Chrysene	EPA 8310	C1H0204	50	ND	10	8/2/01	8/2/01	
benzo(a,h)anthracene	EPA 8310	C1H0204	50	ND	10	8/2/01	8/2/01	
uoranthene	EPA 8310	C1H0204	50	**180**	10	8/2/01	8/2/01	
Fluorene	EPA 8310	C1H0204	50	**55**	10	8/2/01	8/2/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1H0204	50	**100**	10	8/2/01	8/2/01	
phthalene	EPA 8310	C1H0204	400	ND	10	8/2/01	8/2/01	
Phenanthrene	EPA 8310	C1H0204	50	**81**	10	8/2/01	8/2/01	
Pyrene	EPA 8310	C1H0204	50	**130**	10	8/2/01	8/2/01	
urrogate: 2-Methylanthracene (35-115%)				*166 %*				*Z3*

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fton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H0204 Extracted: 08/02/01										
Blank Analyzed: 08/02/01 (C1H0204-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*7.20*		*ug/kg*	*8.00*		*90.0*	*35-115*			
LCS Analyzed: 08/02/01 (C1H0204-BS1)										
Acenaphthene	121	50	ug/kg	160		75.6	45-115			
Acenaphthylene	265	200	ug/kg	320		82.8	50-115			
Anthracene	13.1	2.0	ug/kg	16.0		81.9	55-115			
Benzo(a)anthracene	14.7	2.0	ug/kg	16.0		91.9	65-115			
Benzo(a)pyrene	12.8	2.0	ug/kg	16.0		80.0	55-115			
Benzo(b)fluoranthene	29.5	5.0	ug/kg	32.0		92.2	65-115			
Benzo(g,h,i)perylene	26.7	5.0	ug/kg	32.0		83.4	60-115			
Benzo(k)fluoranthene	13.2	2.0	ug/kg	16.0		82.5	65-115			
Chrysene	13.7	5.0	ug/kg	16.0		85.6	65-115			
Dibenzo(a,h)anthracene	27.9	5.0	ug/kg	32.0		87.2	60-115			
Fluoranthene	28.0	5.0	ug/kg	32.0		87.5	65-115			
Fluorene	27.9	5.0	ug/kg	32.0		87.2	55-115			
Indeno(1,2,3-cd)pyrene	13.6	5.0	ug/kg	16.0		85.0	55-115			
Naphthalene	127	40	ug/kg	160		79.4	45-115			
Phenanthrene	14.3	5.0	ug/kg	16.0		89.4	55-120			
Pyrene	13.8	5.0	ug/kg	16.0		86.2	55-115			

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Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H0204 Extracted: 08/02/01										
LCS Analyzed: 08/02/01 (C1H0204-BS1)										
Surrogate: 2-Methylanthracene	*7.13*		*ug/kg*	*8.00*		*89.1*	*35-115*			
Matrix Spike Analyzed: 08/02/01 (C1H0204-MS1)					**Source: CKH0016-02**					
Acenaphthene	99.4	50	ug/kg	160	ND	62.1	40-115			
Acenaphthylene	389	200	ug/kg	320	ND	92.5	35-130			
Anthracene	9.81	2.0	ug/kg	16.0	ND	58.4	40-115			
Benzo(a)anthracene	13.8	2.0	ug/kg	16.0	ND	80.6	45-130			
Benzo(a)pyrene	9.35	2.0	ug/kg	16.0	ND	50.9	50-115			
Benzo(b)fluoranthene	27.3	5.0	ug/kg	32.0	ND	81.9	40-130			
Benzo(g,h,i)perylene	24.5	5.0	ug/kg	32.0	ND	76.6	45-115			
Benzo(k)fluoranthene	12.6	2.0	ug/kg	16.0	ND	74.6	40-125			
Chrysene	13.4	5.0	ug/kg	16.0	ND	76.9	45-125			
Dibenzo(a,h)anthracene	25.6	5.0	ug/kg	32.0	ND	75.3	25-130			
Fluoranthene	28.1	5.0	ug/kg	32.0	ND	76.2	50-135			
Fluorene	25.2	5.0	ug/kg	32.0	ND	77.4	35-120			
Indeno(1,2,3-cd)pyrene	12.5	5.0	ug/kg	16.0	ND	71.2	40-120			
Naphthalene	162	40	ug/kg	160	ND	89.4	30-115			
Phenanthrene	18.1	5.0	ug/kg	16.0	ND	95.6	30-160			
Pyrene	13.8	5.0	ug/kg	16.0	ND	76.9	20-165			
Surrogate: 2-Methylanthracene	*4.44*		*ug/kg*	*8.00*		*55.5*	*35-115*			
Matrix Spike Dup Analyzed: 08/02/01 (C1H0204-MSD1)					**Source: CKH0016-02**					
Acenaphthene	108	50	ug/kg	160	ND	67.5	40-115	8.29	25	
Acenaphthylene	379	200	ug/kg	320	ND	89.4	35-130	2.60	25	
Anthracene	10.6	2.0	ug/kg	16.0	ND	63.4	40-115	7.74	25	
Benzo(a)anthracene	14.3	2.0	ug/kg	16.0	ND	83.8	45-130	3.56	20	
Benzo(a)pyrene	9.96	2.0	ug/kg	16.0	ND	54.8	50-115	6.32	20	
Benzo(b)fluoranthene	27.6	5.0	ug/kg	32.0	ND	82.8	40-130	1.09	25	
Benzo(g,h,i)perylene	24.7	5.0	ug/kg	32.0	ND	77.2	45-115	0.813	20	
Benzo(k)fluoranthene	12.7	2.0	ug/kg	16.0	ND	75.2	40-125	0.791	25	
Chrysene	13.6	5.0	ug/kg	16.0	ND	78.1	45-125	1.48	30	
Dibenzo(a,h)anthracene	26.7	5.0	ug/kg	32.0	ND	78.8	25-130	4.21	30	
Fluoranthene	29.7	5.0	ug/kg	32.0	ND	81.2	50-135	5.54	25	
Fluorene	26.6	5.0	ug/kg	32.0	ND	81.8	35-120	5.41	20	
Indeno(1,2,3-cd)pyrene	12.6	5.0	ug/kg	16.0	ND	71.9	40-120	0.797	20	

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000061

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Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H0204 Extracted: 08/02/01										
Matrix Spike Dup Analyzed: 08/02/01 (C1H0204-MSD1)					**Source: CKH0016-02**					
Naphthalene	152	40	ug/kg	160	ND	83.1	30-115	6.37	25	
Phenanthrene	15.6	5.0	ug/kg	16.0	ND	80.0	30-160	14.8	30	
Pyrene	14.4	5.0	ug/kg	16.0	ND	80.6	20-165	4.26	20	
Surrogate: 2-Methylanthracene	*4.84*		*ug/kg*	*8.00*		*60.5*	*35-115*			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000062

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Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1H010342

Report Number: CKH0016

Sampled:08/01/01
Received:08/01/01

DATA QUALIFIERS AND DEFINITIONS

Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000063

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

[redacted]

Chain of Custody Record

To: Del Mar Coulon

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL LOS ANGELES (Los Angeles)	Project Manager: Diane Suzelli	Date: 8-1-01	Chain of Custody Number: 054084
Address: 1721 S. GRAND AVE. SANTA ANA, CA 92705	Telephone Number (Area Code)/Fax Number: 714 258 8610 Ext 309	Lab Number: E1HL010342	Page 1 of 1
City: 714-258-8610 / State / Zip Code	Site Contact / Lab Contact		
Project Name and Location (State)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): PAH 8310

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	PAH 8310	Special Instructions/ Conditions of Receipt
SP #13 (Southwest)	8-1-01	9:37				X	X						X	24h TAT
SP #13 (North)	8-1-01	9:45				X	X						X	
Bldg-1-C-13-080101-4	8-1-01	10:03				X	X						X	
Bldg-1-C-13-080101-5	8-1-01	10:05				X	X						X	
Bldg-1-C-13-080101-6	8-1-01	10:08				X	X						X	
Bldg-1-C-13-080101-7	8-1-01	10:11				X	X						X	
Bldg-1-C-13-080101-8	8-1-01	10:14				X	X						X	
Bldg-1-C-13-080101-9	8-1-01	10:16				X	X						X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Rosalia Adriana	8/01/01	17:20	1. Received By:	8-1-01	17:20
2. Relinquished By:	8-1-01	18:30	2. Received By:	8-1-01	18:30
3. Relinquished By:	8/2/01	7:00	3. Received By:	8-2-01	0700

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000064

BOE-C6-0233390

SEVERN
TRENT
SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

August 29, 2001

STL LOT NUMBER: E1H270196
NELAC Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 15 samples received under chain of custody by STL Los Angeles on August 27, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000067 pages.

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0233391

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 8/27/01	Chain of Custody Number: 054147
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1H270196	Page 1 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): ARSENIC	Special Instructions/ Conditions of Receipt
PD-154-1'	8/27/01	12:00				X	X						X	
PD-155-1'	↓	↓				↓	↓						↓	
PD-155-4'	↓	↓				↓	↓						↓	
PD-156-1'	↓	↓				↓	↓						↓	
PD-156-4'	↓	↓				↓	↓						↓	
PD-157-1'	↓	↓				↓	↓						↓	
PD-157-4'	↓	↓				↓	↓						↓	
PD-158-4'	↓	↓				↓	↓						↓	
PD-159-4'	↓	↓				↓	↓						↓	
PD-160-4'	↓	↓				↓	↓						↓	
PD-161-1'	↓	↓				↓	↓						↓	
PD-161-3'	↓	↓				↓	↓						↓	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By	Date 8/27/01	Time 4:30	1. Received By	Date 8/27/01	Time 17:00
2. Relinquished By	Date 8-27-01	Time 18:00	2. Received By	Date 8/27/01	Time 18:00
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000002

BOE-C6-0233392

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 8/27/01	Chain of Custody Number: 054148
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1H270196	Page 2 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact	Lab Contact	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 27285-001			

Per Scott

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): ARSENIC		VOCs + TICs	TPH	PAH	METALS							Special Instructions/ Conditions of Receipt
PD-162-4'	8/27/01	12:00				X		X							X												24HR TURN AROUND
PD-163-4'	↓	↓				X		X							X												
SP-1B-082701-1	8/27/01	3:70				X		X									X	X	X	X							48HR TURN AROUND

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other SEE ABOVE

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8/27/01	4:30	1. Received By	8-27-01	1700
2. Relinquished By	8-27-01	1700	2. Received By	8/27/01	18:00
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000003

BOE-C6-0233393

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 8/27/01

Quantims Lot #: EIH270196
Quote #: 42295
Client Name: Haley & Aldrich
Project: Boeing C-6
Received by: [illegible]
Date/Time Received: 8/27/01 18:00
Delivered by : ☐ Client ☐ Airborne ☐ Fed Ex ☐ DHL ☒ In-House Courier ☐ Rey B. ☐ UPS ☐ DES ☐ Other

****

Initial / Date

Custody Seal Status: ☐ Intact ☐ Broken ☒ None ..... AR 8/27/01
Custody Seal #(s): ☒ No Seal # .....
Sample Container(s): ☒ STL-LA & ☒ Client ☐ N/A .....
Temperature(s) (COOLER/BLANK) in °C: 4.0°C (CORRECTED TEMP) 4.2°C
Thermometer Used : ☒ IR (Infra-red) ☐ Digital (Probe) .....
Samples: ☒ Intact ☐ Broken ☐ Other .....
Anomalies: ☒ No ☐ Yes (See Clouseau) .....
Labeled by AR .....
Labeling checked by .....

****

Turn Around Time: ☒ RUSH-24HR ☐ RUSH-48HR ☐ RUSH-72HR ☐ NORMAL .....
Short-Hold Notification: ☐ Ph ☐ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☒ N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) : — 8310 to Del Mar Colton

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1→14	15									PH
VOAh /*											N/A
40z CGJ	1										—
Sleeve		1									—

h:HCl na:Sodium Hydoxide zana:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/f/l:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA SL:Sleeve

*** Number of VOA's w/ Headspace present**

LOGGED BY/DATE: [illegible] 8/27/01 REVIEWED BY/DATE: [illegible] 8/27/01

000004

BOE-C6-0233394

EXECUTIVE SUMMARY - Detection Highlights

E1H270196

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PD_154_1 08/27/01 12:00 001				
Arsenic	9.0	1.0	mg/kg	SW846 6010B
PD_155_1 08/27/01 12:00 002				
Arsenic	169	1.0	mg/kg	SW846 6010B
PD_155_4 08/27/01 12:00 003				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_156_1 08/27/01 12:00 004				
Arsenic	190	1.0	mg/kg	SW846 6010B
PD_156_4 08/27/01 12:00 005				
Arsenic	3.0	1.0	mg/kg	SW846 6010B
PD_157_1 08/27/01 12:00 006				
Arsenic	10.3	1.0	mg/kg	SW846 6010B
PD_157_4 08/27/01 12:00 007				
Arsenic	8.5	1.0	mg/kg	SW846 6010B
PD_158_4 08/27/01 12:00 008				
Arsenic	7.2	1.0	mg/kg	SW846 6010B
PD_159_4 08/27/01 12:00 009				
Arsenic	7.4	1.0	mg/kg	SW846 6010B
PD_160_4 08/27/01 12:00 010				
Arsenic	3.7	1.0	mg/kg	SW846 6010B
PD_161_1 08/27/01 12:00 011				
Arsenic	9.9	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1H270196

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PD_161_3 08/27/01 12:00 012				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_162_4 08/27/01 12:00 013				
Arsenic	3.4	1.0	mg/kg	SW846 6010B
PD_163_4 08/27/01 12:00 014				
Arsenic	5.8	1.0	mg/kg	SW846 6010B
SP_18_082701_1 08/27/01 15:30 015				
C18-C19	7.1 J	10	mg/kg	SW846 8015B
C20-C23	5.1 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	21	10	mg/kg	SW846 8015B
Mercury	0.023 B	0.10	mg/kg	SW846 7471A
Aluminum	22400	20.0	mg/kg	SW846 6010B
Barium	135	2.0	mg/kg	SW846 6010B
Cadmium	0.62	0.50	mg/kg	SW846 6010B
Chromium	25.7	1.0	mg/kg	SW846 6010B
Beryllium	0.68	0.50	mg/kg	SW846 6010B
Lead	6.0	0.50	mg/kg	SW846 6010B
Cobalt	11.4	5.0	mg/kg	SW846 6010B
Copper	19.8	2.5	mg/kg	SW846 6010B
Nickel	17.5	4.0	mg/kg	SW846 6010B
Vanadium	50.5	5.0	mg/kg	SW846 6010B
Zinc	52.5	2.0	mg/kg	SW846 6010B
Arsenic	3.0	1.0	mg/kg	SW846 6010B

METHODS SUMMARY

E1H270196

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1H270196

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EJMLT	001	PD_154_1	08/27/01	12:00
EJMLV	002	PD_155_1	08/27/01	12:00
EJMLW	003	PD_155_4	08/27/01	12:00
EJMLX	004	PD_156_1	08/27/01	12:00
EJML0	005	PD_156_4	08/27/01	12:00
EJML1	006	PD_157_1	08/27/01	12:00
EJML2	007	PD_157_4	08/27/01	12:00
EJML3	008	PD_158_4	08/27/01	12:00
EJML4	009	PD_159_4	08/27/01	12:00
EJML5	010	PD_160_4	08/27/01	12:00
EJML6	011	PD_161_1	08/27/01	12:00
EJML7	012	PD_161_3	08/27/01	12:00
EJML8	013	PD_162_4	08/27/01	12:00
EJML9	014	PD_163_4	08/27/01	12:00
EJMMA	015	SP_18_082701_1	08/27/01	15:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

GC Semivolatiles

Lot-Sample #...: E1H270196-015 **Work Order #...:** EJMMA1AA **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00 **MS Run #.....:** 1240168
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1240323 **Analysis Time..:** 15:19
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G02
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	**7.1 J**	**10**	**mg/kg**	**5.0**
C20-C23	**5.1 J**	**10**	**mg/kg**	**5.0**
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	**21**	**10**	**mg/kg**	**5.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	73	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

GC Volatiles

Lot-Sample #...:	E1H270196-015	**Work Order #...:**	EJMMA1AC	**Matrix.....:**	SOLID
Date Sampled...:	08/27/01 15:30	**Date Received..:**	08/27/01 18:00	**MS Run #.....:**	1241212
Prep Date.....:	08/29/01	**Analysis Date..:**	08/29/01		
Prep Batch #...:	1241414	**Analysis Time..:**	12:52		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

GC/MS Volatiles

Lot-Sample #...: E1H270196-015 **Work Order #...:** EJMMA1AD **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00 **MS Run #.....:** 1241154
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1241326 **Analysis Time..:** 11:01
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSG
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

GC/MS Volatiles

Lot-Sample #...: E1H270196-015 **Work Order #...:** EJMMA1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(70 - 130)
1,2-Dichloroethane-d4	108	(60 - 140)
Toluene-d8	111	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

TOTAL Metals

Lot-Sample #...: E1H270196-015 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1239358						
Mercury	**0.023 B**	**0.10**	**mg/kg**	**SW846 7471A**	**08/28/01**	**EJMMA1C5**
		Dilution Factor: 1		Analysis Time..: 16:31	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1239183	MDL.....: 0.020	
Prep Batch #...: 1239558						
Aluminum	**22400**	**20.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AF**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210883	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 8.0	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMA1AH
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.60	
Barium	**135**	**2.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AJ**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.10	
Cadmium	**0.62**	**0.50**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AK**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.060	
Chromium	**25.7**	**1.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AL**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.10	
Beryllium	**0.68**	**0.50**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AM**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.050	
Lead	**6.0**	**0.50**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AN**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	08/27-08/28/01	EJMMA1AP
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMA1AQ
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_18_082701_1

TOTAL Metals

Lot-Sample #...: E1H270196-015 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	**11.4**	**5.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AR**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.10	
Copper	**19.8**	**2.5**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AT**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMA1AU
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.30	
Nickel	**17.5**	**4.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AV**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMA1AW
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.80	
Vanadium	**50.5**	**5.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AX**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.10	
Zinc	**52.5**	**2.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1A0**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 1.0	
Arsenic	**3.0**	**1.0**	**mg/kg**	**SW846 6010B**	**08/27-08/28/01**	**EJMMA1AG**
		Dilution Factor: 1		Analysis Time..: 19:11	Analyst ID.....: 0210889	
		Instrument ID..: M01		MS Run #.....: 1239319	MDL.....: 0.40	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1H270196

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 6010B		1239558	1239319
002	SOLID	SW846 6010B		1239558	1239319
003	SOLID	SW846 6010B		1239558	1239319
004	SOLID	SW846 6010B		1239558	1239319
005	SOLID	SW846 6010B		1239558	1239319
006	SOLID	SW846 6010B		1239558	1239319
007	SOLID	SW846 6010B		1239558	1239319
008	SOLID	SW846 6010B		1239558	1239319
009	SOLID	SW846 6010B		1239558	1239319
010	SOLID	SW846 6010B		1239558	1239319
011	SOLID	SW846 6010B		1239558	1239319
012	SOLID	SW846 6010B		1239558	1239319
013	SOLID	SW846 6010B		1239558	1239319
014	SOLID	SW846 6010B		1239558	1239319
015	SOLID	SW846 8015B		1240323	1240168
	SOLID	SW846 8015B		1241414	1241212
	SOLID	SW846 7471A		1239358	1239183
	SOLID	SW846 8260B		1241326	1241154
	SOLID	SW846 6010B		1239558	1239319

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1H270196
MB Lot-Sample #: E1H280000-323
Analysis Date..: 08/28/01
Dilution Factor: 1

Work Order #...: EJNTC1AA
Prep Date.....: 08/28/01
Prep Batch #...: 1240323
Analyst ID.....: 356074

Matrix.....: SOLID
Analysis Time..: 14:01
Instrument ID..: G02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	89	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1H270196
MB Lot-Sample #: E1H290000-326
Analysis Date..: 08/28/01
Dilution Factor: 1

Work Order #...: EJQM81AA
Prep Date.....: 08/28/01
Prep Batch #...: 1241326
Analyst ID.....: 999998

Matrix.....: SOLID
Analysis Time..: 10:27
Instrument ID..: MSG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJQM81AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(70 - 130)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	108	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1H270196
MB Lot-Sample #: E1H290000-414

Analysis Date..: 08/29/01
Dilution Factor: 1

Work Order #...: EJQ7G1AA

Prep Date.....: 08/29/01
Prep Batch #...: 1241414

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 11:56
Instrument ID..: G15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	88	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1H270000-358 **Prep Batch #...:** 1239358						
Mercury	ND	0.10	mg/kg	SW846 7471A	08/28/01	EJL171AA
		Dilution Factor: 1				
		Analysis Time..: 16:26		Analyst ID.....: 000023	Instrument ID..: M04	
MB Lot-Sample #: E1H270000-558 **Prep Batch #...:** 1239558						
Aluminum	ND	20.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AA
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AD
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AE
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AF
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AG
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AH
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AJ
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AK
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AL
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	5.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AM
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AN
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AP
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AQ
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AR
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AT
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AU
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/27-08/28/01	EJMMD1AC
		Dilution Factor: 1				
		Analysis Time..: 16:16		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1H270196 **Work Order #...:** EJNTC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H280000-323
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1240323 **Analysis Time..:** 14:40
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**233**	**mg/kg**	**93**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJQM81AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H290000-326
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1241326 **Analysis Time..:** 09:45
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**67.4**	**ug/kg**	**135**	**SW846 8260B**
Benzene	**50.0**	**46.3**	**ug/kg**	**93**	**SW846 8260B**
Trichloroethene	**50.0**	**54.3**	**ug/kg**	**109**	**SW846 8260B**
Toluene	**50.0**	**52.7**	**ug/kg**	**105**	**SW846 8260B**
Chlorobenzene	**50.0**	**52.7**	**ug/kg**	**105**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	117	(70 - 130)
1,2-Dichloroethane-d4	103	(60 - 140)
Toluene-d8	118	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJQ7G1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H290000-414
Prep Date.....: 08/29/01 **Analysis Date..:** 08/29/01
Prep Batch #...: 1241414 **Analysis Time..:** 11:02
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.93**	**mg/kg**	**99**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1H270000-358 **Prep Batch #...:** 1239358							
Mercury	0.833	0.835	mg/kg	100	SW846 7471A	08/28/01	EJL171AC
			Dilution Factor: 1				
			Analysis Time..: 16:28		Analyst ID.....: 000023	Instrument ID..: M04	
LCS Lot-Sample#: E1H270000-558 **Prep Batch #...:** 1239558							
Aluminum	200	163	mg/kg	81	SW846 6010B	08/27-08/28/01	EJMMD1AV
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	41.4	mg/kg	83	SW846 6010B	08/27-08/28/01	EJMMD1AX
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	199	mg/kg	99	SW846 6010B	08/27-08/28/01	EJMMD1A0
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.95	mg/kg	99	SW846 6010B	08/27-08/28/01	EJMMD1A1
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.7	mg/kg	103	SW846 6010B	08/27-08/28/01	EJMMD1A2
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.06	mg/kg	101	SW846 6010B	08/27-08/28/01	EJMMD1A3
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	44.1	mg/kg	88	SW846 6010B	08/27-08/28/01	EJMMD1A4
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	167	mg/kg	84	SW846 6010B	08/27-08/28/01	EJMMD1A5
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.69	mg/kg	94	SW846 6010B	08/27-08/28/01	EJMMD1A6
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.3	mg/kg	99	SW846 6010B	08/27-08/28/01	EJMMD1A7
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.3	mg/kg	93	SW846 6010B	08/27-08/28/01	EJMMD1A8
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	94.2	mg/kg	94	SW846 6010B	08/27-08/28/01	EJMMD1A9
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	48.5	mg/kg	97	SW846 6010B	08/27-08/28/01	EJMMD1CA
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	168	mg/kg	84	SW846 6010B	08/27-08/28/01	EJMMD1CC
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	49.6	mg/kg	99	SW846 6010B	08/27-08/28/01	EJMMD1CD
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	48.6	mg/kg	97	SW846 6010B	08/27-08/28/01	EJMMD1CE
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	176	mg/kg	88	SW846 6010B	08/27-08/28/01	EJMMD1AW
			Dilution Factor: 1				
			Analysis Time..: 16:22		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1H270196 **Work Order #...:** EJNTC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H280000-323
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1240323 **Analysis Time..:** 14:40
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**93**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJQM81AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H290000-326
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1241326 **Analysis Time..:** 09:45
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**135**	**(60 - 150)**	**SW846 8260B**
Benzene	**93**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**109**	**(70 - 130)**	**SW846 8260B**
Toluene	**105**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**105**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	117	(70 - 130)
1,2-Dichloroethane-d4	103	(60 - 140)
Toluene-d8	118	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJQ7G1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1H290000-414
Prep Date.....: 08/29/01 **Analysis Date..:** 08/29/01
Prep Batch #...: 1241414 **Analysis Time..:** 11:02
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**99**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1H270000-358 **Prep Batch #...:** 1239358					
Mercury	100	(85 - 115)	SW846 7471A	08/28/01	EJL171AC
		Dilution Factor: 1			
		Analysis Time..: 16:28	Analyst ID.....: 000023	Instrument ID..: M04	
LCS Lot-Sample#: E1H270000-558 **Prep Batch #...:** 1239558					
Aluminum	81	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1AV
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	83	(75 - 115)	SW846 6010B	08/27-08/28/01	EJMMD1AX
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Barium	99	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A0
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	99	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A1
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	103	(85 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A2
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	101	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A3
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Lead	88	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A4
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	84	(70 - 115)	SW846 6010B	08/27-08/28/01	EJMMD1A5
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Silver	94	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A6
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	99	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A7
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Copper	93	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A8
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	94	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1A9
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	97	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1CA
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	84	(75 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1CC
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	99	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1CD
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	97	(80 - 120)	SW846 6010B	08/27-08/28/01	EJMMD1CE
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	88	(75 - 115)	SW846 6010B	08/27-08/28/01	EJMMD1AW
		Dilution Factor: 1			
		Analysis Time..: 16:22	Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/22/01 16:00 **Date Received..:** 08/22/01 16:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1H220296-001 **Prep Batch #...:** 1239358									
Mercury									
	ND	0.167	0.165	mg/kg	99		SW846 7471A	08/28/01	EJELM1CX
	ND	0.167	0.166	mg/kg	99	0.10	SW846 7471A	08/28/01	EJELM1C0

Dilution Factor: 1
Analysis Time..: 16:34 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1239183

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E1H270196	**Work Order #...:**	EJK7J1AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1H250168-001		EJK7J1AH-MSD		
Date Sampled...:	08/21/01 10:00	**Date Received..:**	08/25/01 10:45	**MS Run #.....:**	1241212
Prep Date.....:	08/29/01	**Analysis Date..:**	08/29/01		
Prep Batch #...:	1241415	**Analysis Time..:**	13:19		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**5.61**	**mg/kg**	**112**		**SW846 8015B**
	ND	**5.00**	**5.62**	**mg/kg**	**112**	**0.07**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	120	(60 - 130)
	118	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1H270196-015 **Prep Batch #...:** 1239558										
Aluminum										
	22400	200	23500	NC	mg/kg			SW846 6010B	08/27-08/28/01	EJMMA1A1
	22400	200	23300	NC	mg/kg			SW846 6010B	08/27-08/28/01	EJMMA1A2
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							
Antimony										
	ND	50.0	7.83	N	mg/kg	16		SW846 6010B	08/27-08/28/01	EJMMA1A5
	ND	50.0	7.31	N	mg/kg	15	6.9	SW846 6010B	08/27-08/28/01	EJMMA1A6
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							
Barium										
	135	200	334		mg/kg	100		SW846 6010B	08/27-08/28/01	EJMMA1A7
	135	200	338		mg/kg	102	1.1	SW846 6010B	08/27-08/28/01	EJMMA1A8
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							
Cadmium										
	0.62	5.00	5.19		mg/kg	91		SW846 6010B	08/27-08/28/01	EJMMA1A9
	0.62	5.00	5.05		mg/kg	89	2.7	SW846 6010B	08/27-08/28/01	EJMMA1CA
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							
Chromium										
	25.7	20.0	46.7		mg/kg	105		SW846 6010B	08/27-08/28/01	EJMMA1CC
	25.7	20.0	44.4		mg/kg	93	5.1	SW846 6010B	08/27-08/28/01	EJMMA1CD
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							
Beryllium										
	0.68	5.00	5.65		mg/kg	99		SW846 6010B	08/27-08/28/01	EJMMA1CE
	0.68	5.00	5.49		mg/kg	96	2.8	SW846 6010B	08/27-08/28/01	EJMMA1CF
			Dilution Factor: 1							
			Analysis Time..: 19:28			Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1239319							

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead									
	6.0	50.0	50.9	mg/kg	90		SW846 6010B	08/27-08/28/01	EJMMA1CG
	6.0	50.0	48.9	mg/kg	86	3.8	SW846 6010B	08/27-08/28/01	EJMMA1CH
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Selenium									
	ND	200	169	mg/kg	84		SW846 6010B	08/27-08/28/01	EJMMA1CJ
	ND	200	162	mg/kg	81	4.4	SW846 6010B	08/27-08/28/01	EJMMA1CK
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Silver									
	ND	5.00	4.56	mg/kg	91		SW846 6010B	08/27-08/28/01	EJMMA1CL
	ND	5.00	4.34	mg/kg	87	4.9	SW846 6010B	08/27-08/28/01	EJMMA1CM
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Cobalt									
	11.4	50.0	58.5	mg/kg	94		SW846 6010B	08/27-08/28/01	EJMMA1CN
	11.4	50.0	58.2	mg/kg	94	0.42	SW846 6010B	08/27-08/28/01	EJMMA1CP
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Copper									
	19.8	25.0	44.0	mg/kg	97		SW846 6010B	08/27-08/28/01	EJMMA1CQ
	19.8	25.0	42.8	mg/kg	92	2.8	SW846 6010B	08/27-08/28/01	EJMMA1CR
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Molybdenum									
	ND	100	82.1	mg/kg	82		SW846 6010B	08/27-08/28/01	EJMMA1CT
	ND	100	79.1 N	mg/kg	79	3.8	SW846 6010B	08/27-08/28/01	EJMMA1CU
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	17.5	50.0	64.0	mg/kg	93		SW846 6010B	08/27-08/28/01	EJMMA1CV
	17.5	50.0	62.9	mg/kg	91	1.6	SW846 6010B	08/27-08/28/01	EJMMA1CW
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Thallium									
	ND	200	180	mg/kg	90		SW846 6010B	08/27-08/28/01	EJMMA1CX
	ND	200	173	mg/kg	87	3.7	SW846 6010B	08/27-08/28/01	EJMMA1C0
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Vanadium									
	50.5	50.0	98.3	mg/kg	96		SW846 6010B	08/27-08/28/01	EJMMA1C1
	50.5	50.0	97.1	mg/kg	93	1.2	SW846 6010B	08/27-08/28/01	EJMMA1C2
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Zinc									
	52.5	50.0	101	mg/kg	96		SW846 6010B	08/27-08/28/01	EJMMA1C3
	52.5	50.0	100	mg/kg	95	0.62	SW846 6010B	08/27-08/28/01	EJMMA1C4
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					
Arsenic									
	3.0	200	176	mg/kg	87		SW846 6010B	08/27-08/28/01	EJMMA1A3
	3.0	200	170	mg/kg	84	3.4	SW846 6010B	08/27-08/28/01	EJMMA1A4
				Dilution Factor: 1					
				Analysis Time..: 19:28	Instrument ID..: M01			Analyst ID.....: 021088	
				MS Run #.....: 1239319					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1H270196 **Work Order #...:** EJMMA1C6-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1H270196-015 EJMMA1C7-MSD
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00 **MS Run #.....:** 1240168
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1240323 **Analysis Time..:** 15:57
Dilution Factor: 1 **Analyst ID.....:** 356074 **Instrument ID..:** G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**219**	**mg/kg**	**88**		**SW846 8015B**
	ND	**250**	**279**	**mg/kg**	**112**	**24**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(60 - 130)
	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1H270196	**Work Order #...:**	EJMMA1C8-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1H270196-015		EJMMA1C9-MSD		
Date Sampled...:	08/27/01 15:30	**Date Received..:**	08/27/01 18:00	**MS Run #.....:**	1241154
Prep Date.....:	08/28/01	**Analysis Date..:**	08/28/01		
Prep Batch #...:	1241326	**Analysis Time..:**	14:38		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSG

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**54.0**	**ug/kg**	**108**		**SW846 8260B**
	ND	**50.0**	**62.4**	**ug/kg**	**125**	**15**	**SW846 8260B**
Benzene	**ND**	**50.0**	**46.6**	**ug/kg**	**93**		**SW846 8260B**
	ND	**50.0**	**53.5**	**ug/kg**	**107**	**14**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**46.0**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**52.2**	**ug/kg**	**104**	**13**	**SW846 8260B**
Toluene	**ND**	**50.0**	**44.3**	**ug/kg**	**89**		**SW846 8260B**
	ND	**50.0**	**51.5**	**ug/kg**	**103**	**15**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**42.1**	**ug/kg**	**84**		**SW846 8260B**
	ND	**50.0**	**49.2**	**ug/kg**	**98**	**16**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(70 - 130)
	109	(70 - 130)
1,2-Dichloroethane-d4	111	(60 - 140)
	111	(60 - 140)
Toluene-d8	109	(70 - 130)
	116	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/22/01 16:00 **Date Received..:** 08/22/01 16:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1H220296-001 **Prep Batch #...:** 1239358							
Mercury	99	(80 - 120)			SW846 7471A	08/28/01	EJELM1CX
	99	(80 - 120)	0.10	(0-20)	SW846 7471A	08/28/01	EJELM1C0

Dilution Factor: 1
Analysis Time..: 16:34 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1239183

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1H270196	**Work Order #...:**	EJK7J1AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1H250168-001		EJK7J1AH-MSD		
Date Sampled...:	08/21/01 10:00	**Date Received..:**	08/25/01 10:45	**MS Run #.....:**	1241212
Prep Date.....:	08/29/01	**Analysis Date..:**	08/29/01		
Prep Batch #...:	1241415	**Analysis Time..:**	13:19		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**112**	**(80 - 140)**			**SW846 8015B**
	112	**(80 - 140)**	**0.07**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	120	(60 - 130)
	118	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1H270196-015 **Prep Batch #...:** 1239558							
Aluminum	NC	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1A1
	NC	(80 - 120)		(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1A2
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Antimony	16 N	(75 - 115)			SW846 6010B	08/27-08/28/01	EJMMA1A5
	15 N	(75 - 115)	6.9	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1A6
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Barium	100	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1A7
	102	(80 - 120)	1.1	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1A8
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Cadmium	91	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1A9
	89	(80 - 120)	2.7	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CA
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Chromium	105	(85 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CC
	93	(85 - 120)	5.1	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CD
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Beryllium	99	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CE
	96	(80 - 120)	2.8	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CF
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Lead	90	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CG
	86	(80 - 120)	3.8	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CH
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	84	(70 - 115)			SW846 6010B	08/27-08/28/01	EJMMA1CJ
	81	(70 - 115)	4.4	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CK
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Silver	91	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CL
	87	(80 - 120)	4.9	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CM
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Cobalt	94	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CN
	94	(80 - 120)	0.42	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CP
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Copper	97	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CQ
	92	(80 - 120)	2.8	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CR
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Molybdenum	82	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CT
	79 N	(80 - 120)	3.8	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CU
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Nickel	93	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CV
	91	(80 - 120)	1.6	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1CW
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Thallium	90	(75 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1CX
	87	(75 - 120)	3.7	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1C0
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H270196 **Matrix.....:** SOLID
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	96	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1C1
	93	(80 - 120)	1.2	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1C2
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Zinc	96	(80 - 120)			SW846 6010B	08/27-08/28/01	EJMMA1C3
	95	(80 - 120)	0.62	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1C4
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					
Arsenic	87	(75 - 115)			SW846 6010B	08/27-08/28/01	EJMMA1A3
	84	(75 - 115)	3.4	(0-25)	SW846 6010B	08/27-08/28/01	EJMMA1A4
		Dilution Factor: 1					
		Analysis Time..: 19:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1239319					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1H270196	**Work Order #...:**	EJMMA1C6-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1H270196-015		EJMMA1C7-MSD		
Date Sampled...:	08/27/01 15:30	**Date Received..:**	08/27/01 18:00	**MS Run #.....:**	1240168
Prep Date.....:	08/28/01	**Analysis Date..:**	08/28/01		
Prep Batch #...:	1240323	**Analysis Time..:**	15:57		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**88**	**(60 - 130)**			**SW846 8015B**
	112	**(60 - 130)**	**24**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(60 - 130)
	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1H270196 **Work Order #...:** EJMMA1C8-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1H270196-015 EJMMA1C9-MSD
Date Sampled...: 08/27/01 15:30 **Date Received..:** 08/27/01 18:00 **MS Run #.....:** 1241154
Prep Date.....: 08/28/01 **Analysis Date..:** 08/28/01
Prep Batch #...: 1241326 **Analysis Time..:** 14:38
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSG

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**108**	**(60 - 150)**			**SW846 8260B**
	125	**(60 - 150)**	**15**	**(0-30)**	**SW846 8260B**
Benzene	**93**	**(70 - 140)**			**SW846 8260B**
	107	**(70 - 140)**	**14**	**(0-30)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 130)**			**SW846 8260B**
	104	**(70 - 130)**	**13**	**(0-30)**	**SW846 8260B**
Toluene	**89**	**(70 - 130)**			**SW846 8260B**
	103	**(70 - 130)**	**15**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**84**	**(70 - 130)**			**SW846 8260B**
	98	**(70 - 130)**	**16**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(70 - 130)
	109	(70 - 130)
1,2-Dichloroethane-d4	111	(60 - 140)
	111	(60 - 140)
Toluene-d8	109	(70 - 130)
	116	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Subcontracted Analysis

000060

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LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: EIH270196

Sampled: 08/27/01
Received: 08/28/01
Reported: 08/31/01

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el Mar Analytical, Colton
lifton J. Kiser
Project Manager

000061

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: EIH270196

Report Number: CKH0279

Sampled:08/27/01
Received:08/28/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKH0279-01 (SP-18-082701-1 - Soil)								
cenaphthene	EPA 8310	C1H2905	50	ND	1	8/29/01	8/30/01	
Acenaphthylene	EPA 8310	C1H2905	200	ND	1	8/29/01	8/30/01	
nthracene	EPA 8310	C1H2905	2.0	ND	1	8/29/01	8/30/01	
enzo(a)anthracene	EPA 8310	C1H2905	2.0	ND	1	8/29/01	8/30/01	M1
enzo(a)pyrene	EPA 8310	C1H2905	2.0	ND	1	8/29/01	8/30/01	M1
Benzo(b)fluoranthene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	
enzo(g,h,i)perylene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	
enzo(k)fluoranthene	EPA 8310	C1H2905	2.0	ND	1	8/29/01	8/30/01	
Chrysene	EPA 8310	C1H2905	5.0	**6.4**	1	8/29/01	8/30/01	M1
ibenzo(a,h)anthracene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	
uoranthene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	M1
Fluorene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	M1
aphthalene	EPA 8310	C1H2905	40	ND	1	8/29/01	8/30/01	
Phenanthrene	EPA 8310	C1H2905	5.0	**6.9**	1	8/29/01	8/30/01	
Pyrene	EPA 8310	C1H2905	5.0	ND	1	8/29/01	8/30/01	
urrogate: 2-Methylanthracene (35-115%)				*84.0 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000062

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: EIH270196

Report Number: CKH0279

Sampled:08/27/01
Received:08/28/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H2905 Extracted: 08/29/01										
Blank Analyzed: 08/29/01 (C1H2905-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*5.27*		*ug/kg*	*8.00*		*65.9*	*35-115*			
LCS Analyzed: 08/29/01 (C1H2905-BS1)										
Acenaphthene	89.9	50	ug/kg	160		56.2	45-115			
Acenaphthylene	294	200	ug/kg	320		91.9	50-115			
Anthracene	9.76	2.0	ug/kg	16.0		61.0	55-115			
Benzo(a)anthracene	13.4	2.0	ug/kg	16.0		83.8	65-115			
Benzo(a)pyrene	10.0	2.0	ug/kg	16.0		62.5	55-115			
Benzo(b)fluoranthene	26.5	5.0	ug/kg	32.0		82.8	65-115			
Benzo(g,h,i)perylene	23.2	5.0	ug/kg	32.0		72.5	60-115			
Benzo(k)fluoranthene	12.7	2.0	ug/kg	16.0		79.4	65-115			
Chrysene	13.1	5.0	ug/kg	16.0		81.9	65-115			
Dibenzo(a,h)anthracene	25.8	5.0	ug/kg	32.0		80.6	60-115			
Fluoranthene	24.9	5.0	ug/kg	32.0		77.8	65-115			
Fluorene	24.1	5.0	ug/kg	32.0		75.3	55-115			
Indeno(1,2,3-cd)pyrene	12.0	5.0	ug/kg	16.0		75.0	55-115			
Naphthalene	125	40	ug/kg	160		78.1	45-115			
Phenanthrene	11.7	5.0	ug/kg	16.0		73.1	55-120			
Pyrene	11.8	5.0	ug/kg	16.0		73.8	55-115			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000063

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: EIH270196

Report Number: CKH0279

Sampled:08/27/01
Received:08/28/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H2905 Extracted: 08/29/01										
LCS Analyzed: 08/29/01 (C1H2905-BS1)										
Surrogate: 2-Methylanthracene	*4.75*		*ug/kg*	*8.00*		*59.4*	*35-115*			
Matrix Spike Analyzed: 08/30/01 (C1H2905-MS1)					**Source: CKH0279-01**					
Acenaphthene	103	100	ug/kg	160	ND	64.4	40-115			
Acenaphthylene	ND	400	ug/kg	320	ND	98.1	35-130			
Anthracene	14.6	4.0	ug/kg	16.0	ND	89.8	40-115			
Benzo(a)anthracene	24.6	4.0	ug/kg	16.0	ND	154	45-130			*M1*
Benzo(a)pyrene	20.7	4.0	ug/kg	16.0	ND	121	50-115			*M1*
Benzo(b)fluoranthene	30.1	10	ug/kg	32.0	ND	92.8	40-130			
Benzo(g,h,i)perylene	31.7	10	ug/kg	32.0	ND	85.6	45-115			
Benzo(k)fluoranthene	17.3	4.0	ug/kg	16.0	ND	107	40-125			
Chrysene	33.4	10	ug/kg	16.0	ND	169	45-125			*M1*
Dibenzo(a,h)anthracene	17.1	10	ug/kg	32.0	ND	53.4	25-130			
Fluoranthene	46.4	10	ug/kg	32.0	ND	140	50-135			*M1*
Fluorene	28.6	10	ug/kg	32.0	ND	89.4	35-120			
Indeno(1,2,3-cd)pyrene	22.9	10	ug/kg	16.0	ND	131	40-120			*M1*
Naphthalene	154	80	ug/kg	160	ND	75.6	30-115			
Phenanthrene	26.9	10	ug/kg	16.0	ND	125	30-160			
Pyrene	25.5	10	ug/kg	16.0	ND	156	20-165			
Surrogate: 2-Methylanthracene	*7.71*		*ug/kg*	*8.00*		*96.4*	*35-115*			
Matrix Spike Dup Analyzed: 08/30/01 (C1H2905-MSD1)					**Source: CKH0279-01**					
Acenaphthene	ND	100	ug/kg	160	ND	56.7	40-115	12.7	25	
Acenaphthylene	ND	400	ug/kg	320	ND	102	35-130	4.06	25	
Anthracene	13.3	4.0	ug/kg	16.0	ND	81.6	40-115	9.32	25	
Benzo(a)anthracene	17.8	4.0	ug/kg	16.0	ND	111	45-130	32.1	20	*R-3*
Benzo(a)pyrene	14.3	4.0	ug/kg	16.0	ND	81.2	50-115	36.6	20	*R-3*
Benzo(b)fluoranthene	25.9	10	ug/kg	32.0	ND	79.6	40-130	15.0	25	
Benzo(g,h,i)perylene	29.5	10	ug/kg	32.0	ND	78.8	45-115	7.19	20	
Benzo(k)fluoranthene	14.0	4.0	ug/kg	16.0	ND	86.4	40-125	21.1	25	
Chrysene	31.1	10	ug/kg	16.0	ND	154	45-125	7.13	30	*M1*
Dibenzo(a,h)anthracene	14.0	10	ug/kg	32.0	ND	43.8	25-130	19.9	30	
Fluoranthene	38.9	10	ug/kg	32.0	ND	117	50-135	17.6	25	
Fluorene	31.1	10	ug/kg	32.0	ND	97.2	35-120	8.38	20	
Indeno(1,2,3-cd)pyrene	19.7	10	ug/kg	16.0	ND	111	40-120	15.0	20	

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000064

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: EIH270196

Report Number: CKH0279

Sampled:08/27/01
Received:08/28/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1H2905 Extracted: 08/29/01										
Matrix Spike Dup Analyzed: 08/30/01 (C1H2905-MSD1)					**Source: CKH0279-01**					
Naphthalene	143	80	ug/kg	160	ND	68.8	30-115	7.41	25	
Phenanthrene	27.5	10	ug/kg	16.0	ND	129	30-160	2.21	30	
Pyrene	18.8	10	ug/kg	16.0	ND	114	20-165	30.2	20	*R-3*
Surrogate: 2-Methylanthracene	*8.07*		*ug/kg*	*8.00*		*101*	*35-115*			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: EIH270196

Report Number: CKH0279

Sampled:08/27/01
Received:08/28/01

DATA QUALIFIERS AND DEFINITIONS

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R-3	The RPD exceeded the method control limit due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000066

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[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL - LA	Project Manager: D SUZUKI	Date: 08/27/2001	Chain of Custody Number: 049999
Address: 1721 S. GRAND AVE	Telephone Number (Area Code)/Fax Number: (714) 258-8610 EXT 309	Lab Number: EIH270196	Page 1 of 1
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: D SUZUKI	
Project Name and Location (State): BOEING C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): PAH	Special Instructions/ Conditions of Receipt
SP-18-082701-1	8/27/01	330				X	X						X	48 hour TAT

Rel by: [signature] 8/28/01 12:10
Rec [signature] 8-28-01 12:10
Rel [signature] 8-28-01 4:50
Rec: M. [signature] 8/28/01 16:50

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A lee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	8/27/01	1830	1. Received By: [signature]		
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By: [signature]	8/27/01	18:30

Comments: intact 3°C

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0233443

000067

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification (ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.:

Project Name: Boeing C-6

Laboratory Reference: KJC 11680

Analytical Method: 8015 CCID, 8260, CAM Metals

Date Sampled: 08/24/00
Date Received: 08/24/00
Date Reported: 09/08/00

Sample Matrix:

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

Analysis Method: 8015m

Sample Description: Soil

Laboratory Reference #: KJC 11680

Sampled: 08/24/00
Received: 08/24/00
Analyzed 08/29/00
Reported: 09/08/00

Client Sample #:	Method Blank	C-32-2-5	C-32-2-10	C-32-3-1	C-32-3-5	C-32-3-10
Lab Sample #:	MB08	00080334	00080335	00080336	00080337	00080338
Reporting Unit:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Up to & Including C-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C13-22	N.D.	N.D.	N.D.	72	N.D.	N.D.
C23 & Higher	N.D.	N.D.	N.D.	1400	N.D.	N.D.
Total	N.D.	N.D.	N.D.	1500	N.D.	N.D.
Detection Limit	8.0	8.0	8.0	8.0	8.0	8.0

INT M.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

Analysis Method: 8015m

Sample Description: Soil

Laboratory Reference #: KJC 11680

Sampled: 08/24/00
Received: 08/24/00
Analyzed 08/29/00
Reported: 09/08/00

Client Sample #:	C-32-4-1	C-32-4-5	C-32-4-10	C-32-6-10	C-32-6-15	C-32-6-20	C32-8-10
Lab Sample #:	00080339	00080340	00080341	00080346	00080347	00080348	00080354
Reporting Unit:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Up to & Including C-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C13-22	240	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C23 & Higher	1800	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total	2000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Detection Limit	8.0	8.0	8.0	8.0	8.0	8.0	8.0

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

Analysis Method: 8015m

Sample Description: Soil

Laboratory Reference #: KJC 11680

Sampled: 08/24/00
Received: 08/24/00
Analyzed 08/29/00
Reported: 09/08/00

Client Sample #:	C-32-8-15	C-32-8-20	C-32-9-1	C-32-9-5	C-32-10-10	C-32-10-15	C-32-10-20
Lab Sample #:	00080355	00080356	00080357	00080358	00080359	00080360	00080361
Reporting Unit:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Up to & Including C-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C13-22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C23 & Higher	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Detection Limit	8.0	8.0	8.0	8.0	8.0	8.0	8.0

INT m.a.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11680

Sampled:	---	08/24/00
Received:	---	08/24/00
Analyzed:	08/28/00	08/28/00
Reported:	09/08/00	09/08/00
Lab Sample I.D.	MB0828	00080362
Client Sample I.D.	---	C-6-8/24 Rinsate

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/l*	*SAMPLE RESULTS µg/l*	*µg/l*
Benzene	71-43-2	0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	7.6
Bromoform	75-25-2	0.5	<0.5	1.8
Bromomethane	74-83-9	1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	5.4
Chloroethane	75-00-3	0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	9.9
Chloromethane	74-87-3	0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	<0.5	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5

INT m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	---	08/24/00
Received:	---	08/24/00
Analyzed:	08/28/00	08/28/00
Reported:	09/08/00	09/08/00
Lab Sample I.D.	MB0828	00080362
Client Sample I.D.	---	C-6-8/24 Rinsate

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT ug/l***	***SAMPLE RESULTS*** ***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5
MTBE	1634-04-4	1.0	<1.0	<1.0

SURROGATE RECOVERY	%RC	%RC
Dibromofluoromethane	84	94
Toluene-d8	94	99
4-Bromofluorobenzene	110	117

INT m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	---	08/24/00	08/24/00	08/24/00
Received:	---	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	MB0829	00080334	00080335	00080336
Client Sample I.D.	---	C-32-2-5	C-32-2-10	C-32-3-1

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0	<5.0
	SURROGATE RECOVERY		%RC	%RC	%RC	%RC
	Dibromofluoromethane		94	90	96	117
	Toluene-d8		91	102	97	118
	4-Bromofluorobenzene		116	112	119	86

INT m.d.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	---	08/24/00	08/24/00	08/24/00
Received:	---	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	MB0829	00080334	00080335	00080336
Client Sample I.D.	---	C-32-2-5	C-32-2-10	C-32-3-1

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.5

INT M.N.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080337	00080338	00080339	00080340
Client Sample I.D.	C-32-3-5	C-32-3-10	C-32-4-1	C-32-4-5

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Benzene	71-43-2	2.5	<2.5	<2.5	<50	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<50	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<50	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<50	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<100	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<50	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<50	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<50	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<50	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<100	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<50	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<50	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	96	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<50	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<50	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<50	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<50	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<50	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<50	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<50	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<100	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<50	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<50	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<50	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	79	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	300	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<50	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5	2100	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<100	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<100	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<50	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<50	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<50	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<50	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<50	<2.5

INT MM

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080337	00080338	00080339	00080340
Client Sample I.D.	C-32-3-5	C-32-3-10	C-32-4-1	C-32-4-5

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<50	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<50	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<50	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<50	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<50	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<50	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<50	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<50	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<50	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<50	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<50	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<50	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<50	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<50	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	89	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<50	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<50	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<50	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<50	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<50	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<50	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<100	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<50	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<50	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	150	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<50	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<100	<5.0
	SURROGATE RECOVERY		%RC	%RC	%RC	%RC
	Dibromofluoromethane		98	94	93	95
	Toluene-d8		98	96	97	95
	4-Bromofluorobenzene		120	117	116	116

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080341	00080342	00080343	00080344
Client Sample I.D.	C-32-4-10	C-32-5-4'	C-32-5-10'	C-32-5-15

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	6.7	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	41	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.5

INT m.m.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080341	00080342	00080343	00080344
Client Sample I.D.	C-32-4-10	C-32-5-4'	C-32-5-10'	C-32-5-15

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT µg/kg***	***SAMPLE RESULTS***			
			µg/kg	***µg/kg***	***µg/kg***	***µg/kg***
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0	<5.0
	SURROGATE RECOVERY		%RC	%RC	%RC	%RC
	Dibromofluoromethane		92	99	93	95
	Toluene-d8		94	101	96	97
	4-Bromofluorobenzene		118	109	116	116

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080345	00080346	00080347	00080348
Client Sample I.D.	C-32-5-20	C-32-6-10	C-32-6-15	C-32-6-20

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.5

INT m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080345	00080346	00080347	00080348
Client Sample I.D.	C-32-5-20	C-32-6-10	C-32-6-15	C-32-6-20

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT µg/kg***	***SAMPLE RESULTS*** µg/kg	µg/kg	µg/kg	µg/kg
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0	<5.0
	SURROGATE RECOVERY		%RC	%RC	%RC	%RC
	Dibromofluoromethane		94	94	94	98
	Toluene-d8		93	95	95	96
	4-Bromofluorobenzene		116	116	117	116

INT M.W.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080349	00080350	00080351	00080352
Client Sample I.D.	C-32-7-5	C-32-7-10	C-32-7-15	C-32-7-20

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.5

INT m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6

Client Project #:

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Analyzed:	08/29/00	08/29/00	08/29/00	08/29/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080349	00080350	00080351	00080352
Client Sample I.D.	C-32-7-5	C-32-7-10	C-32-7-15	C-32-7-20

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS* µg/kg	µg/kg	µg/kg	µg/kg
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0	<5.0

SURROGATE RECOVERY	%RC	%RC	%RC	%RC
Dibromofluoromethane	99	94	97	99
Toluene-d8	97	98	95	98
4-Bromofluorobenzene	118	118	120	116

INT M.M.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	---	08/24/00	08/24/00	08/24/00
Received:	---	08/24/00	08/24/00	08/24/00
Analyzed:	08/30/00	08/30/00	08/30/00	08/30/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	MB0830	00080354	00080355	00080356
Client Sample I.D.	---	C-32-8-10	C-32-8-15	C-32-8-20

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	5.3	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5	<2.5

INT mm

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6

Client Project #:

Sampled:	---	08/24/00	08/24/00	08/24/00
Received:	---	08/24/00	08/24/00	08/24/00
Analyzed:	08/30/00	08/30/00	08/30/00	08/30/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	MB0830	00080354	00080355	00080356
Client Sample I.D.	---	C-32-8-10	C-32-8-15	C-32-8-20

ANALYTE (CONT)	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*	*µg/kg*
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0	<5.0
	SURROGATE RECOVERY		%RC	%RC	%RC	%RC
	Dibromofluoromethane		98	94	100	100
	Toluene-d8		98	100	103	102
	4-Bromofluorobenzene		122	119	122	121

INT

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00
Analyzed:	08/30/00	08/30/00	08/30/00
Reported:	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080359	00080360	00080361
Client Sample I.D.	C-32-10-10	C-32-10-15	C-32-10-20

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	*CAS NUMBER*	*DETECTION LIMIT µg/kg*	*SAMPLE RESULTS µg/kg*	*µg/kg*	*µg/kg*
Benzene	71-43-2	2.5	<2.5	<2.5	<2.5
Bromodichloromethane	75-27-4	2.5	<2.5	<2.5	<2.5
Bromoform	75-25-2	2.5	<2.5	<2.5	<2.5
Bromomethane	74-83-9	2.5	<2.5	<2.5	<2.5
Carbon Disulfide	75-15-0	5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	2.5	<2.5	<2.5	<2.5
Chlorobenzene	108-90-7	2.5	<2.5	<2.5	<2.5
Chlorodibromomethane	124-48-1	2.5	<2.5	<2.5	<2.5
Chloroethane	75-00-3	2.5	<2.5	<2.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	2.5	<2.5	<2.5	<2.5
1,1-Dichloroethane	75-34-3	2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	107-06-2	2.5	<2.5	<2.5	<2.5
1,1-Dichloroethene	75-35-4	2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	156-60-5	2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	78-87-5	2.5	<2.5	<2.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	2.5	<2.5	<2.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	2.5	<2.5	<2.5	<2.5
Ethylbenzene	100-41-4	2.5	<2.5	<2.5	<2.5
Methylene chloride	75-09-2	5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5
Tetrachloroethene	127-18-4	2.5	<2.5	<2.5	<2.5
Toluene	108-88-3	2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	71-55-6	2.5	<2.5	<2.5	<2.5
1,1,2-Trichloroethane	79-00-5	2.5	<2.5	<2.5	<2.5
Trichloroethene	79-01-6	2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	75-69-4	5.0	<5.0	<5.0	<5.0
Vinyl acetate	108-05-4	5.0	<5.0	<5.0	<5.0
Vinyl chloride	75-01-4	2.5	<2.5	<2.5	<2.5
Total Xylenes	1330-20-7	2.5	<2.5	<2.5	<2.5
Dichlorodifluoromethane	75-71-8	2.5	<2.5	<2.5	<2.5
cis-1,2-Dichloroethene	156-59-2	2.5	<2.5	<2.5	<2.5
2,2-Dichloropropane	594-20-7	2.5	<2.5	<2.5	<2.5

INT M.K.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11680

Client Project ID: Boeing C-6
Client Project #:

Sampled:	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00
Analyzed:	08/30/00	08/30/00	08/30/00
Reported:	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080359	00080360	00080361
Client Sample I.D.	C-32-10-10	C-32-10-15	C-32-10-20

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT µg/kg***	***SAMPLE RESULTS***		
			µg/kg	***µg/kg***	***µg/kg***
Bromochloromethane	74-97-5	2.5	<2.5	<2.5	<2.5
1,1-Dichloropropene	563-58-6	2.5	<2.5	<2.5	<2.5
Dibromomethane	74-95-3	2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane	106-93-4	2.5	<2.5	<2.5	<2.5
1,3-Dichloropropane	142-28-9	2.5	<2.5	<2.5	<2.5
Isopropylbenzene	98-82-8	2.5	<2.5	<2.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	2.5	<2.5	<2.5	<2.5
1,2,3-Trichloropropane	96-18-4	2.5	<2.5	<2.5	<2.5
Bromobenzene	108-86-1	2.5	<2.5	<2.5	<2.5
n-Propylbenzene	103-65-1	2.5	<2.5	<2.5	<2.5
2-Chlorotoluene	95-49-8	2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	2.5	<2.5	<2.5	<2.5
4-Chlorotoluene	106-43-4	2.5	<2.5	<2.5	<2.5
tert-Butylbenzene	98-06-6	2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	2.5	<2.5	<2.5	<2.5
sec-Butylbenzene	135-98-8	2.5	<2.5	<2.5	<2.5
4-Isopropyltoluene	99-87-6	2.5	<2.5	<2.5	<2.5
1,3-Dichlorobenzene	541-73-1	2.5	<2.5	<2.5	<2.5
1,4-Dichlorobenzene	106-46-7	2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	95-50-1	2.5	<2.5	<2.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	2.5	<2.5	<2.5	<2.5
Hexachlorobutadiene	87-68-3	2.5	<2.5	<2.5	<2.5
Naphthalene	91-20-3	2.5	<2.5	<2.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	2.5	<2.5	<2.5	<2.5
MTBE	1634-04-4	5.0	<5.0	<5.0	<5.0

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	97	100	90
Toluene-d8	104	103	111
4-Bromofluorobenzene	123	127	117

INT M.A.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	---	08/24/00	08/24/00	08/24/00
Received:	---	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	MB	00080334	00080335	00080336
Client Sample I.D.	---	C-32-2-5	C-32-2-10	C-32-3-1

CCR METALS

ANALYTE	*DATE TESTED*	*EPA METHOD*	*DETECTION LIMIT mg/kg*	*SAMPLE RESULTS*			
				mg/kg	*mg/kg*	*mg/kg*	*mg/kg*
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	<1.0	4.0	4.1	3.7
Barium	09/01/00	6010	0.5	<0.5	150	130	63
Beryllium	09/01/00	6010	0.5	<0.5	0.61	0.68	<0.5
Cadmium	09/01/00	6010	0.5	<0.5	<0.5	<0.5	3.7
Chromium (Total)	09/01/00	6010	0.5	<0.5	24	25	24
Cobalt	09/01/00	6010	0.5	<0.5	11	12	5.8
Copper	09/01/00	6010	0.5	<0.5	27	33	31
Lead	09/01/00	6010	1.0	<1.0	6.5	7.2	5.2
Mercury	08/29/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	12
Nickel	09/01/00	6010	0.5	<0.5	18	21	31
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	<0.5	49	56	79
Zinc	09/01/00	6010	0.5	<0.5	62	70	55

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080337	00080338	00080339	00080340
Client Sample I.D.	C-32-3-5	C-32-3-10	C-32-4-1	C-32-4-5

CCR METALS

ANALYTE	*DATE TESTED*	*EPA METHOD*	*DETECTION LIMIT mg/kg*	*SAMPLE RESULTS*			
				mg/kg	*mg/kg*	*mg/kg*	*mg/kg*
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	4.8	3.9	3.6	2.8
Barium	09/01/00	6010	0.5	330	150	96	160
Beryllium	09/01/00	6010	0.5	1.1	0.53	<0.5	0.50
Cadmium	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	43	21	35	18
Cobalt	09/01/00	6010	0.5	19	9.3	6.5	7.9
Copper	09/01/00	6010	0.5	40	49	33	16
Lead	09/01/00	6010	1.0	12	6.1	23	6.1
Mercury	08/29/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	5.1	<1.0
Nickel	09/01/00	6010	0.5	32	16	15	13
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	95	47	33	43
Zinc	09/01/00	6010	0.5	110	60	56	50

INT M.M.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080341	00080342	00080343	00080344
Client Sample I.D.	C-32-4-10	C-32-5-4'	C-32-5-10'	C-32-5-15

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/kg***	***SAMPLE RESULTS***			
				mg/kg	***mg/kg***	***mg/kg***	***mg/kg***
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	3.7	2.5	4.1	2.5
Barium	09/01/00	6010	0.5	850	130	160	110
Beryllium	09/01/00	6010	0.5	<0.5	0.66	0.65	<0.5
Cadmium	09/01/00	6010	0.5	0.64	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	19	22	27	19
Cobalt	09/01/00	6010	0.5	8.2	8.4	12	8.9
Copper	09/01/00	6010	0.5	24	16	34	19
Lead	09/01/00	6010	1.0	4.8	6.1	7.2	4.8
Mercury	08/29/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	<1.0
Nickel	09/01/00	6010	0.5	14	16	22	12
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	43	43	58	43
Zinc	09/01/00	6010	0.5	51	48	72	60

INT min.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080345	00080346	00080347	00080348
Client Sample I.D.	C-32-5-20	C-32-6-10	C-32-6-15	C-32-6-20

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/kg***	***SAMPLE RESULTS***			
				mg/kg	***mg/kg***	***mg/kg***	***mg/kg***
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	2.7	3.5	3.3	4.1
Barium	09/01/00	6010	0.5	170	150	88	130
Beryllium	09/01/00	6010	0.5	0.53	0.64	<0.5	0.56
Cadmium	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	20	24	16	22
Cobalt	09/01/00	6010	0.5	9.4	11	7.4	10
Copper	08/29/00	6010	0.5	26	30	20	28
Lead	09/01/00	6010	1.0	5.5	7.2	4.7	6.4
Mercury	08/29/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	<1.0
Nickel	09/01/00	6010	0.5	15	18	13	18
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	45	50	36	50
Zinc	09/01/00	6010	0.5	62	69	45	64

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080349	00080350	00080351	00080352
Client Sample I.D.	C-32-7-5	C-32-7-10	C-32-7-15	C-32-7-20

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/kg***	***SAMPLE RESULTS***			
				mg/kg	***mg/kg***	***mg/kg***	***mg/kg***
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	1.5	3.2	3.0	2.3
Barium	09/01/00	6010	0.5	200	120	110	160
Beryllium	09/01/00	6010	0.5	0.78	0.70	0.54	0.61
Cadmium	09/01/00	6010	0.5	0.60	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	24	26	23	23
Cobalt	09/01/00	6010	0.5	13	12	11	11
Copper	09/01/00	6010	0.5	29	35	36	29
Lead	09/01/00	6010	1.0	6.1	7.3	6.4	6.0
Mercury	08/31/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	<1.0
Nickel	09/01/00	6010	0.5	13	21	19	17
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	36	53	46	50
Zinc	09/01/00	6010	0.5	72	78	65	71

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080354	00080355	00080356	00080357
Client Sample I.D.	C-32-8-10	C-32-8-15	C-32-8-20	C-32-9-1

CCR METALS

ANALYTE	*DATE TESTED*	*EPA METHOD*	*DETECTION LIMIT mg/kg*	*SAMPLE RESULTS mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	2.3	2.1	2.1	3.9
Barium	09/01/00	6010	0.5	110	130	130	110
Beryllium	09/01/00	6010	0.5	0.57	0.55	0.50	<0.5
Cadmium	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	26	21	24	17
Cobalt	09/01/00	6010	0.5	10	9.9	9.4	8.5
Copper	09/01/00	6010	0.5	30	27	25	20
Lead	09/01/00	6010	1.0	5.9	5.9	5.2	13
Mercury	08/31/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	<1.0
Nickel	09/01/00	6010	0.5	19	16	15	11
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	44	45	41	33
Zinc	09/01/00	6010	0.5	70	66	60	42

INT m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Jay Knight
2151 Michelson Dr. #100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #:

SAMPLE DESCRIPTION (Soil)

Laboratory Reference #: KJC 11680

Sampled:	08/24/00	08/24/00	08/24/00	08/24/00
Received:	08/24/00	08/24/00	08/24/00	08/24/00
Reported:	09/08/00	09/08/00	09/08/00	09/08/00
Lab Sample I.D.	00080358	00080359	00080360	00080361
Client Sample I.D.	C-32-9-5	C-32-9-10	C-32-9-15	C-32-9-20

CCR METALS

ANALYTE	*DATE TESTED*	*EPA METHOD*	*DETECTION LIMIT mg/kg*	*SAMPLE RESULTS mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
Antimony	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	09/01/00	6010	1.0	2.9	4.0	2.1	2.8
Barium	09/01/00	6010	0.5	150	130	150	140
Beryllium	09/01/00	6010	0.5	0.64	0.50	0.56	0.50
Cadmium	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Chromium (Total)	09/01/00	6010	0.5	24	21	21	19
Cobalt	09/01/00	6010	0.5	9.0	9.8	10	9.1
Copper	09/01/00	6010	0.5	20	27	26	25
Lead	09/01/00	6010	1.0	6.1	5.6	5.5	5.4
Mercury	08/31/00	7471	0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	09/01/00	6010	1.0	<1.0	<1.0	<1.0	<1.0
Nickel	09/01/00	6010	0.5	16	15	15	14
Selenium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Silver	09/01/00	6010	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	09/01/00	6010	5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	09/01/00	6010	0.5	54	48	48	44
Zinc	09/01/00	6010	0.5	58	59	69	59

INT m.n.

Orange Coast Analytical, Inc

QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 08/29/00
Laboratory Sample No : 00080360
Laboratory Reference No : KJC 11680

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	69	85	69	85	21

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Extractable Fuel Hydrocarbons (EPA 8015m)

Date of Analysis : 08/29/00
Laboratory Sample No : 00080334
Laboratory Reference No : KJC 11680

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	100	77	81	77	81	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.M.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 08/28/00
Laboratory Sample No : A00080071
Laboratory Reference No : KJC 11680

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	20	20	100	100	0
1,1-Dichloroethene	0.0	20	16	17	80	85	6
Trichloroethene	0.0	20	22	22	110	110	0
Toluene	0.0	20	21	20	105	100	5
Chlorobenzene	0.0	20	23	23	115	115	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 08/29/00
Laboratory Sample No : 00080316
Laboratory Reference No : KJC 11680

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	49	49	98	98	0
1,1-Dichloroethene	3.5	50	53	56	99	105	6
Trichloroethene	2.8	50	59	59	112	112	0
Toluene	0.0	50	48	48	96	96	0
Chlorobenzene	0.0	50	56	56	112	112	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.H.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 08/30/00
Laboratory Sample No : 00080354
Laboratory Reference No : KJC 11680

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	50	38	37	76	74	3
1,1-Dichloroethene	0.0	50	37	36	74	72	3
Trichloroethene	2.1	50	45	44	86	84	2
Toluene	0.0	50	40	39	80	78	3
Chlorobenzene	0.0	50	45	43	90	86	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11680

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	09/01/00	00080334	0.0	10.0	10.3	11.2	103	112	8
Arsenic	09/01/00	00080334	0.080	10.0	10.2	10.9	101	108	7
Barium	09/01/00	00080334	3.0	1.00	4.01	4.04	101	104	1
Beryllium	09/01/00	00080334	0.012	1.00	1.13	1.19	112	118	5
Cadmium	09/01/00	00080334	0.00	1.00	1.16	1.20	116	120	3
Chromium (Total)	09/01/00	00080334	0.47	1.00	1.57	1.62	110	115	3
Cobalt	09/01/00	00080334	0.22	1.00	1.30	1.34	108	112	3
Copper	09/01/00	00080334	0.55	1.00	1.71	1.72	116	117	1
Lead	09/01/00	00080334	0.13	5.00	4.90	5.33	95	104	8
Mercury	08/29/00	00080338	0.00	1.00	1.11	1.13	111	113	2
Molybdenum	09/01/00	00080334	0.0	5.00	4.91	5.29	98	106	7
Nickel	09/01/00	00080334	0.36	5.00	5.38	5.65	100	106	5
Selenium	09/01/00	00080334	0.0	10.0	10.3	11.0	103	110	7
Silver	09/01/00	00080334	0.0	1.00	1.03	1.08	103	108	5
Thallium	09/01/00	00080334	0.0	10.0	9.12	9.78	91	98	7
Vanadium	09/01/00	00080334	0.98	5.00	6.44	6.72	109	115	4
Zinc	09/01/00	00080334	1.2	1.00	2.37	2.40	117	120	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11680

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	09/01/00	00080344	0.0	10.0	10.5	10.9	105	109	4
Arsenic	09/01/00	00080344	0.051	10.0	10.4	10.7	103	106	3
Barium	09/01/00	00080344	2.20	1.00	3.28	3.23	108	103	2
Beryllium	09/01/00	00080344	0.00	1.00	1.15	1.18	115	118	3
Cadmium	09/01/00	00080344	0.00	1.00	1.18	1.20	118	120	2
Chromium (Total)	09/01/00	00080344	0.38	1.00	1.48	1.50	110	112	1
Cobalt	09/01/00	00080344	0.18	1.00	1.24	1.25	106	107	1
Copper	09/01/00	00080344	0.40	1.00	1.57	1.59	117	119	1
Lead	09/01/00	00080344	0.096	5.00	5.11	5.29	100	104	3
Mercury	08/29/00	00080346	0.00	1.00	1.14	1.12	114	112	2
Molybdenum	09/01/00	00080344	0.0	5.00	5.06	5.15	101	103	2
Nickel	09/01/00	00080344	0.2	5.00	5.42	5.57	104	107	3
Selenium	09/01/00	00080344	0.0	10.0	10.5	10.9	105	109	4
Silver	09/01/00	00080344	0.0	1.00	1.05	1.08	105	108	3
Thallium	09/01/00	00080344	0.0	10.0	9.33	9.60	93	96	3
Vanadium	09/01/00	00080344	0.9	5.00	6.45	6.59	112	115	2
Zinc	09/01/00	00080344	1.2	1.00	2.26	2.24	106	104	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11680

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	09/01/00	00080355	0.0	10.0	10.8	11.2	108	112	4
Arsenic	09/01/00	00080355	0.043	10.0	10.4	10.8	104	108	4
Barium	09/01/00	00080355	2.60	1.00	3.75	3.78	115	118	1
Beryllium	09/01/00	00080355	0.011	1.00	1.15	1.20	114	119	4
Cadmium	09/01/00	00080355	0.00	1.00	1.17	1.20	117	120	3
Chromium (Total)	09/01/00	00080355	0.43	1.00	1.52	1.57	109	114	3
Cobalt	09/01/00	00080355	0.20	1.00	1.24	1.29	104	109	4
Copper	09/01/00	00080355	0.55	1.00	1.65	1.66	110	111	1
Lead	09/01/00	00080355	0.12	5.00	5.19	5.34	101	104	3
Mercury	08/31/00	00080359	0.00	1.00	1.18	1.15	118	115	3
Molybdenum	09/01/00	00080355	0.0	5.00	4.99	5.18	100	104	4
Nickel	09/01/00	00080355	0.32	5.00	5.42	5.65	102	107	4
Selenium	09/01/00	00080355	0.0	10.0	10.8	11.3	108	113	5
Silver	09/01/00	00080355	0.0	1.00	1.10	1.10	110	110	0
Thallium	09/01/00	00080355	0.0	10.0	9.28	9.66	93	97	4
Vanadium	09/01/00	00080355	0.90	5.00	6.44	6.67	111	115	4
Zinc	09/01/00	00080355	1.3	1.00	2.41	2.46	111	116	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.K.

Orange Coast Analytical, Inc.

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____
Page 1 of 3

REQUIRED TAT: _____

CUSTOMER INFORMATION
COMPANY: Kennedy Jenks
SEND REPORT TO: Joy Knight
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION
PROJECT NAME: Boeing C-6
NUMBER:
LOCATION:
ADDRESS:
SAMPLED BY:

ANALYSIS/METHOD REQUEST: 8260 VOC; 6010 metals; 8015m TPH

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	8260 VOC	6010 metals	8015m TPH						REMARKS/PRECAUTIONS
C-32-2-5	1	8/24/00	8:30	Soil	Acetate Sleeve	N	X	X							
C-32-2-10			8:40				X	X							
C-32-3-1			8:49				X	X	X						
C-32-3-5			8:53				X	X	X						
C-32-3-10			9:00				X	X	X						
C-32-4-1			9:15				X	X	X						
C-32-4-5			9:20				X	X	X						
C-32-4-10			9:40				X	X	X						
C-32-5-4'			9:50				X	X							
C-32-5-10'			9:55				X	X							
C-32-5-15			9:58				X	X							
C-32-5-20			10:00				X	X							
C-32-6-10			10:15				X	X	X						
C-32-6-15	1	8/24/00	10:30	Soil	Acetate Sleeve	N	X	X	X						

Total No. of Samples:

Method of Shipment:

Relinquished By:	Date/Time:	Received By:	Date/Time:
J. Knight	8/24 4:00		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:
		[illegible]	8/24/00 16:00

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)
intact _____ on ice _____

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

KENNEDY JENKS CONSULT

☑ 037

BOE-C6-0233479

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____
Page 2 of 3

REQUIRED TAT: _____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Kennedy Jenks	PROJECT NAME:	Boeing C-6
SEND REPORT TO:	Jay Knighter	NUMBER:	
ADDRESS:		LOCATION:	
		ADDRESS:	
PHONE:	FAX:	SAMPLED BY:	

ANALYSIS/METHOD REQUEST: 8260 VOC, 6010 Metals, 8015 TPH

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	8260 VOC	6010 Metals	8015 TPH						REMARKS/PRECAUTIONS
C-32-6-20	1	8/24/00	10:35	Soil	Acetate	N	X	X	X						
C-32-7-5			10:55				X	X							
" 10			11:00				X	X							
" 15			11:10				X	X							
" 20			11:15				X	X							
C-32-8-5 HOLD			1:20				X	X	X						
" -10			1:30				X	X	X						
" -15			1:35				X	X	X						
" -20			1:40				X	X	X						
C-32-9-1			2:00					X	X						
C-32-9-5			2:10					X	X						
C-32-10-10			3:15				X	X	X						
" 10-15			3:20				X	X	X						
" 10-20	1	8/24/00	3:25	Soil	Acetate Lint	N	X	X	X						

Total No. of Samples:

Method of Shipment:

Relinquished By:	Date/Time:	Received By:	Date/Time:
T. Loyla	8/24 4:00		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:
		[signature]	8/24/00 7:6:00

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)
intact _____ on ice _____

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

KENNEDY JENKS CONSULT

038

BOE-C6-0233480

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____
Page 3 of 3

REQUIRED TAT: _____

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: KJ	PROJECT NAME:
SEND REPORT TO: Jay Knight	NUMBER:
ADDRESS:	LOCATION:
	ADDRESS:
PHONE: FAX:	SAMPLED BY:

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	ANALYSIS/METHOD REQUESTED: VOC 8260								REMARKS/PRECAUTIONS
C-6-8/24 RINSATE	2	8/24	3:50	W	VOA	HCL	X								

Total No. of Samples:		Method of Shipment:	
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: [signature]	Date/Time: 8/24/00 16:40

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)
intact _____ on ice _____

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Appendix B

BOE-C6-0233482

APPENDIX B

SOIL SCREENING LEVEL (SSL) CALCULATIONS

Site-specific Soil screening Levels (SSLs) Assuming Impacts at Depths of 12 Feet bgs

CAS No.	Chemical	MCL (mg/L)	K_{oc} [1,2]	f_{oc} [3]	K_d [4]	H' [1]	O_w [3]	O_a [3]	P_b [3]	AF_T	Site-specific SSL (mg/kg) at AF_T = 1	Site-specific SSL (mg/kg) at AF_T at D=53' x DAF
75-34-3	1,1 - Dichloroethane (1,1-DCA)	5.00E-03	5.3E+01	5.19E-04	--	2.3E-01	2.53E-01	2.07E-01	1.44E+00	13	1.18E-03	3.17E-01
100-41-4	Ethylbenzene	7.00E-01	2.0E+02	5.19E-04	--	3.2E-01	2.53E-01	2.07E-01	1.44E+00	13	2.28E-01	6.12E+01
108-88-3	Toluene	1.50E-01	1.4E+02	5.19E-04	--	2.7E-01	2.53E-01	2.07E-01	1.44E+00	13	4.30E-02	1.16E+01
71-55-6	1,1,1-Trichloroethane (1,1,1-TCA)	2.00E-01	1.4E+02	5.19E-04	--	7.1E-01	2.53E-01	2.07E-01	1.44E+00	13	7.01E-02	1.88E+01
79-01-6	Trichloroethylene	5.00E-03	9.4E+01	5.19E-04	--	4.2E-01	2.53E-01	2.07E-01	1.44E+00	13	1.42E-03	3.82E-01
1330-20-7	Xylene (total)	1.75E+00	2.0E+02	5.19E-04	--	3.0E-01	2.53E-01	2.07E-01	1.44E+00	13	5.64E-01	1.52E+02

Notes:

An SSL was not derived for chemicals that do not have promulgated primary MCLs. These chemicals were not included in the assessment of potential for groundwater degradation at concentrations greater than MCLs.

Initial SSL derived using EPA July 1996 Soil Screening Guidance: Technical Background Document, where SSL = MCL [(Koc * foc) + ((Ow + Oa*H')/Pb)].
AF_{Tavg} calcuated from LARWQCB May 1996 Interim Site Assessment and Cleanup Guidebook which accounts for attenuation in the soil assuming site-specific soil particle distribution and distance between impacts and groundwater table of 53 feet, and default DAF for EPA SSLs of 20 as presented in EPA July 1996 Soil Screening Guidance: Technical Background Document which accounts for limited groundwater mixing.

AF_{Tavg} = Average attenuation factor based on site lithology (distance to groundwater = 53 feet, 30% sand, 57% silt, and 13% clay).

na = not available
K_{oc} = soil organic carbon-water partition coefficient (L/kg)
f_{oc} = site-specific organic carbon content of soil (kg/kg)
K_d = soil-water partition coefficient (L/kg), K_{oc} x f_{oc}
H' = dimensionless Henry's law constant
O_w = site-specific average water-filled porosity (by volume)
O_a = site-specific average air-filled porosity (by volume)
P_b = dry soil bulk density (kg/L)

(1) Obtained from EPA Region 9 preliminary remediation goal (PRG) physical-chemical data for volatile organic compounds, November 2000
(2) Obtained from Risk Assessment Information System (RAIS) Toxicity & Chemical-Specific Factors Data Base, January 2001, http://risk.lsd.ornl.gov/cgi-bin/tox/TOX_select?select=csf
(3) Site-specific average values
(4) Obtained from EPA Soil Screening Guidance: Technical Background Document (TBD), EPA/540/R-95/128, July 1996, http://www.epa.gov/oerrpage/superfund/resources/soil/toc.htm

Geotechnical Parameters for the BRC Former C-6 Facility, Los Angeles, California

Sample ID	Date Sampled	Depth (feet bgs)	Sieve Analysis (Soil Type)	Dry Bulk Density (kg/L)	Moisture Content (percent by weight)	Total Porosity (fraction by volume)	Air-filled Porosity (fraction by volume)	Water-filled Porosity (fraction by volume)	TOC* (mg/kg)	f_{oc} (fraction by weight)
EIA290176-001 (I-34-5)	1/29/2001	5	Silt	1.51	15.9	0.43	0.19	0.24	520	0.0005
EIA290176-010 (D-29-5)	1/29/2001	5	Silt	1.44	20.3	0.46	0.16	0.29	2350	0.0024
EIA29176-018 (I-25-5)	1/29/2001	5	Silt	1.34	17.8	0.49	0.26	0.24	690	0.0007
Average				**1.43**	**18.0**	**0.46**	**0.20**	**0.26**	**1187**	**0.0012**
EIA290176-004 (I-34-20)	1/29/2001	20	Silt	1.54	17.5	0.42	0.15	0.27	330	0.0003
EIA290176-012 (D-29-20)	1/29/2001	20	Silt	1.55	17.0	0.41	0.15	0.26	430	0.0004
EIA29176-021 (I-25-20)	1/29/2001	20	Silt	1.37	20.2	0.48	0.20	0.28	410	0.0004
Average				**1.49**	**18.2**	**0.44**	**0.17**	**0.27**	**390**	**0.0004**
EIA290176-007 (I-34-50)	1/29/2001	50	Fine sand	1.35	4.4	0.51	0.45	0.06	230	0.0002
EIA29176-015 (D-29-50)	1/29/2001	50	Fine sand	1.36	19.5	0.49	0.22	0.26	560	0.0006
EIA29176-024 (I-25-50)	1/29/2001	50	Silt	1.34	24.3	0.51	0.18	0.32	470	0.0005
Average				**1.35**	**16.1**	**0.50**	**0.28**	**0.22**	**420**	**0.0004**
Weighted Fraction by weight (depths 12 to 65 feet bgs)				1.44		0.46	0.21	0.25		0.0005

The weighted fraction by weight assumes the 5-foot sample is representative of the top 20 feet, the 20-foot sample of depths between 20 and 50 feet, and the 50-foot sample of depths between 50 and 65 feet bgs.

Notes:

The laboratory report will be provided as an appendix of the Soil Assessment Report which is being prepared by Kennedy/Jenks, Inc. and will be submitted to the RWQCB under separate cover.

The air-filled porosity values were calculated from gravimetric data, not volumetric data.

* f_{oc} = the weight fraction of organic carbon in soil = TOC/1,000,000

Soil Particle Size Distribution for the BRC Former C-6 Facility, Los Angeles, California

Sample ID	Date Sampled	Depth (feet bgs)	Sieve Analysis (Soil Type)	Median Grain Size (mm)	Particle Size Distribution, wt. Percent						
					Gravel	Sand Size				Silt	Clay
						Coarse	Medium	Fine	TOTAL		
EIA290176-001 (I-34-5)	1/29/2001	5	Silt	0.029	0.00	0.00	0.22	17.60	17.82	69.80	12.37
EIA290176-010 (D-29-5)	1/29/2001	5	Silt	0.027	0.00	0.00	0.02	17.00	17.02	68.41	14.58
EIA29176-018 (I-25-5)	1/29/2001	5	Silt	0.026	0.00	0.00	0.39	14.86	15.25	68.78	15.97
Average									**16.70**	**69.00**	**14.31**
EIA290176-004 (I-34-20)	1/29/2001	20	Silt	0.032	0.00	0.00	0.00	31.19	31.19	54.83	13.99
EIA290176-012 (D-29-20)	1/29/2001	20	Silt	0.036	0.00	0.00	0.90	27.59	28.49	59.67	11.85
EIA29176-021 (I-25-20)	1/29/2001	20	Silt	0.020	0.00	0.00	0.00	11.21	11.21	69.07	19.72
Average									**23.63**	**61.19**	**15.19**
EIA290176-007 (I-34-50)	1/29/2001	50	Fine sand	0.151	0.00	0.00	0.57	79.33	79.90	17.39	2.71
EIA29176-015 (D-29-50)	1/29/2001	50	Fine sand	0.083	0.00	0.00	3.26	47.93	51.19	39.79	9.01
EIA29176-024 (I-25-50)	1/29/2001	50	Silt	0.027	0.00	0.00	0.04	21.27	21.31	64.99	13.70
Average									**50.80**	**40.72**	**8.47**

Weighted Fraction by weight (depths 12 to 65 feet bgs)	0.30	0.57	0.13

The weighted fraction by weight assumes the 5-foot sample is representative of the top 20 feet, the 20-foot sample of depths between 20 and 50 feet, and the 50-foot sample of depths between 50 and 65 feet bgs.