



13 August, 2003

Bruce Lewis
Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento, CA 95833

RE: Aerojet RI/FS
Work Order: P307487

Enclosed are the results of analyses for samples received by the laboratory on 07/24/03 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch For Mark Shipman
Project Manager

CA ELAP Certificate #2374

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10D-SNS 35	P307487-01	Soil	07/24/03 11:25	07/24/03 16:30
10D-SNS 25	P307487-02	Soil	07/24/03 11:35	07/24/03 16:30
10D-SNS 33	P307487-03	Soil	07/24/03 11:45	07/24/03 16:30
10D-SNS 34	P307487-04	Soil	07/24/03 11:55	07/24/03 16:30
10D-SNS 31	P307487-05	Soil	07/24/03 12:00	07/24/03 16:30
10D-SNS 26	P307487-06	Soil	07/24/03 12:10	07/24/03 16:30
10D-SNS 32	P307487-07	Soil	07/24/03 12:15	07/24/03 16:30
10D-SNS 29	P307487-08	Soil	07/24/03 12:30	07/24/03 16:30
10D-SNS 27	P307487-09	Soil	07/24/03 12:35	07/24/03 16:30
10D-SNS 30	P307487-10	Soil	07/24/03 12:40	07/24/03 16:30
10D-SNS 25D	P307487-11	Soil	07/24/03 11:35	07/24/03 16:30
35D-SB25-2.5	P307487-12	Soil	07/24/03 10:49	07/24/03 16:30
35D-SB25-10	P307487-13	Soil	07/24/03 11:11	07/24/03 16:30
35D-SB25-35	P307487-14	Soil	07/24/03 13:09	07/24/03 16:30
35D-SB25-40	P307487-15	Soil	07/24/03 13:43	07/24/03 16:30
35D-SB25-45E	P307487-16	Water	07/24/03 14:28	07/24/03 16:30
35D-SB25-45	P307487-17	Soil	07/24/03 15:15	07/24/03 16:30

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**Polychlorinated Biphenyls by EPA Method 8082
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10D-SNS 35 (P307487-01) Soil Sampled: 07/24/03 11:25 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	270		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		62 %	46-115			"	"	"	"	
10D-SNS 25 (P307487-02) Soil Sampled: 07/24/03 11:35 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	410		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		68 %	46-115			"	"	"	"	
10D-SNS 33 (P307487-03) Soil Sampled: 07/24/03 11:45 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	210		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		54 %	46-115			"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082 Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10D-SNS 34 (P307487-04) Soil Sampled: 07/24/03 11:55 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	08/01/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	500		33	"	"	"	"	"	"	
PCB-1260	520		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		61 %	46-115			"	"	"	"	
10D-SNS 31 (P307487-05) Soil Sampled: 07/24/03 12:00 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	1200		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		71 %	46-115			"	"	"	"	
10D-SNS 26 (P307487-06) Soil Sampled: 07/24/03 12:10 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	490		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		66 %	46-115			"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082 Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10D-SNS 32 (P307487-07) Soil Sampled: 07/24/03 12:15 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	220		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		63 %	46-115			"	"	"	"	
10D-SNS 29 (P307487-08) Soil Sampled: 07/24/03 12:30 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	ND		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		58 %	46-115			"	"	"	"	
10D-SNS 27 (P307487-09) Soil Sampled: 07/24/03 12:35 Received: 07/24/03 16:30										
C-01, C-06										
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	180		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		48 %	46-115			"	"	"	"	

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**Polychlorinated Biphenyls by EPA Method 8082
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10D-SNS 30 (P307487-10) Soil										
Sampled: 07/24/03 12:40						Received: 07/24/03 16:30		C-01, C-06		
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	110		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		52 %	46-115			"	"	"	"	
10D-SNS 25D (P307487-11) Soil										
Sampled: 07/24/03 11:35						Received: 07/24/03 16:30		C-01, C-06		
PCB-1016	ND		33	ug/kg	1	3070628	07/30/03	07/31/03	EPA 8082	
PCB-1221	ND		33	"	"	"	"	"	"	
PCB-1232	ND		33	"	"	"	"	"	"	
PCB-1242	ND		33	"	"	"	"	"	"	
PCB-1248	ND		33	"	"	"	"	"	"	
PCB-1254	ND		33	"	"	"	"	"	"	
PCB-1260	330		33	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		56 %	46-115			"	"	"	"	

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Tentatively Identified Compounds by GC/MS Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-2.5 (P307487-12) Soil Sampled: 07/24/03 10:49 Received: 07/24/03 16:30										
Unknown aromatic 1	1000		10	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Unknown aromatic 2	700		10	"	"	"	"	"	"	
Unknown aromatic 3	2000		10	"	"	"	"	"	"	
Unknown aromatic 4	700		10	"	"	"	"	"	"	
Unknown cholesterol 1	1000		10	"	"	"	"	"	"	
Unknown cycloalkane 1	1000		10	"	"	"	"	"	"	
Unknown cycloalkane 2	600		10	"	"	"	"	"	"	
Unknown cycloalkane 3	1000		10	"	"	"	"	"	"	
Unknown cycloalkane 4	200		10	"	"	"	"	"	"	
Unknown halogenated alkane 1	300		10	"	"	"	"	"	"	
35D-SB25-10 (P307487-13) Soil Sampled: 07/24/03 11:11 Received: 07/24/03 16:30										
No TICs found	ND		10	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
35D-SB25-35 (P307487-14) Soil Sampled: 07/24/03 13:09 Received: 07/24/03 16:30										
No TICs found	ND		10	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
35D-SB25-40 (P307487-15) Soil Sampled: 07/24/03 13:43 Received: 07/24/03 16:30										
No TICs found	ND		10	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
35D-SB25-45E (P307487-16) Water Sampled: 07/24/03 14:28 Received: 07/24/03 16:30										
No TICs found	ND		10	ug/l	1	3070597	07/28/03	08/06/03	EPA 8270C	
35D-SB25-45 (P307487-17) Soil Sampled: 07/24/03 15:15 Received: 07/24/03 16:30										
No TICs found	ND		10	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	

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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-2.5 (P307487-12) Soil Sampled: 07/24/03 10:49 Received: 07/24/03 16:30										
Acenaphthene	ND	8.7	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	60	9.3	330	"	"	"	"	"	"	J
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	45	11	330	"	"	"	"	"	"	J
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	58	14	330	"	"	"	"	"	"	J
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-2.5 (P307487-12) Soil Sampled: 07/24/03 10:49 Received: 07/24/03 16:30										
2,6-Dinitrotoluene	ND	13	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		55 %	11-120			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		68 %	16-130			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		68 %	16-126			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		78 %	28-134			"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		68 %	51-144			"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		82 %	64-119			"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-10 (P307487-13) Soil Sampled: 07/24/03 11:11 Received: 07/24/03 16:30										
Acenaphthene	ND	8.7	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-10 (P307487-13) Soil Sampled: 07/24/03 11:11 Received: 07/24/03 16:30										
2,4-Dinitrotoluene	ND	20	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		68 %	11-120			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		77 %	16-130			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		81 %	16-126			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		83 %	28-134			"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		90 %	51-144			"	"	"	"	

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-10 (P307487-13) Soil Sampled: 07/24/03 11:11 Received: 07/24/03 16:30										
<i>Surrogate: Terphenyl-d14</i>		107 %	64-119			3070610	07/29/03	08/02/03	EPA 8270C	
35D-SB25-35 (P307487-14) Soil Sampled: 07/24/03 13:09 Received: 07/24/03 16:30										
Acenaphthene	ND	8.7	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	48	9.3	330	"	"	"	"	"	"	J
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-35 (P307487-14) Soil Sampled: 07/24/03 13:09 Received: 07/24/03 16:30										
4,6-Dinitro-2-methylphenol	ND	17	1700	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		61 %	11-120			"	"	"	"	
Surrogate: Phenol-d6		71 %	16-130			"	"	"	"	
Surrogate: Nitrobenzene-d5		72 %	16-126			"	"	"	"	

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-35 (P307487-14) Soil Sampled: 07/24/03 13:09 Received: 07/24/03 16:30										
Surrogate: 2-Fluorobiphenyl		65 %	28-134			3070610	07/29/03	08/02/03	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol		70 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		104 %	64-119			"	"	"	"	
35D-SB25-40 (P307487-15) Soil Sampled: 07/24/03 13:43 Received: 07/24/03 16:30										
Acenaphthene	ND	8.7	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzydine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
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08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-40 (P307487-15) Soil Sampled: 07/24/03 13:43 Received: 07/24/03 16:30										
2,4-Dimethylphenol	ND	36	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		66 %	11-120			"	"	"	"	

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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35D-SB25-40 (P307487-15) Soil Sampled: 07/24/03 13:43 Received: 07/24/03 16:30

Surrogate: Phenol-d6		76 %	16-130			3070610	07/29/03	08/02/03	EPA 8270C	
Surrogate: Nitrobenzene-d5		76 %	16-126			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		74 %	28-134			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85 %	51-144			"	"	"	"	
Surrogate: Terphenyl-d14		102 %	64-119			"	"	"	"	

35D-SB25-45E (P307487-16) Water Sampled: 07/24/03 14:28 Received: 07/24/03 16:30

Acenaphthene	ND	1.2	10	ug/l	1	3070597	07/28/03	08/06/03	EPA 8270C	
Acenaphthylene	ND	1.4	10	"	"	"	"	"	"	
Anthracene	ND	0.61	10	"	"	"	"	"	"	
Azobenzene	ND	0.64	20	"	"	"	"	"	"	
Benzidine	ND	3.2	51	"	"	"	"	"	"	
Benzoic acid	ND	4.0	51	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.45	10	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	1.2	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.65	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.89	10	"	"	"	"	"	"	
Benzyl alcohol	ND	4.0	20	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.1	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.5	10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.5	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	2.9	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.71	10	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	2.7	10	"	"	"	"	"	"	
4-Chloroaniline	ND	0.56	20	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	2.3	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.5	10	"	"	"	"	"	"	
2-Chlorophenol	ND	0.32	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.99	10	"	"	"	"	"	"	
Chrysene	ND	0.46	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.56	10	"	"	"	"	"	"	
Dibenzofuran	ND	1.1	10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.1	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	2.9	20	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-45E (P307487-16) Water Sampled: 07/24/03 14:28 Received: 07/24/03 16:30										
2,4-Dichlorophenol	ND	0.48	10	ug/l	1	3070597	07/28/03	08/06/03	EPA 8270C	
Diethyl phthalate	ND	0.43	10	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.4	10	"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.57	10	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	3.4	51	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	2.4	51	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.84	10	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.78	10	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.83	10	"	"	"	"	"	"	"
Fluoranthene	ND	0.45	10	"	"	"	"	"	"	"
Fluorene	ND	1.0	10	"	"	"	"	"	"	"
Hexachlorobenzene	ND	0.81	10	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.5	10	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.32	10	"	"	"	"	"	"	"
Hexachloroethane	ND	1.7	10	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.62	10	"	"	"	"	"	"	"
Isophorone	ND	0.72	10	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.4	10	"	"	"	"	"	"	"
2-Methylphenol	ND	3.5	10	"	"	"	"	"	"	"
4-Methylphenol	ND	3.1	10	"	"	"	"	"	"	"
Naphthalene	ND	1.6	10	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.70	51	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.55	51	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.62	51	"	"	"	"	"	"	"
Nitrobenzene	ND	1.3	10	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.43	10	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.52	51	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.5	20	"	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	3.9	10	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.59	10	"	"	"	"	"	"	"
Pentachlorophenol	ND	3.1	51	"	"	"	"	"	"	"
Phenanthrene	ND	0.57	10	"	"	"	"	"	"	"
Phenol	ND	0.49	10	"	"	"	"	"	"	"
Pyrene	ND	0.29	10	"	"	"	"	"	"	"
Pyridine	ND	3.8	10	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.7	10	"	"	"	"	"	"	"

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-45E (P307487-16) Water Sampled: 07/24/03 14:28 Received: 07/24/03 16:30										
2,4,5-Trichlorophenol	ND	0.62	10	ug/l	1	3070597	07/28/03	08/06/03	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.32	10	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		57 %	15-103			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		75 %	18-115			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		88 %	39-103			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		87 %	40-124			"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		96 %	11-142			"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		120 %	56-139			"	"	"	"	
35D-SB25-45 (P307487-17) Soil Sampled: 07/24/03 15:15 Received: 07/24/03 16:30										
Acenaphthene	ND	8.7	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzydine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-45 (P307487-17) Soil Sampled: 07/24/03 15:15 Received: 07/24/03 16:30										
1,2-Dichlorobenzene	ND	16	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	11	330	"	"	"	"	"	"	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	

Environmental Resources Management
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 Sacramento CA, 95833

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 Project Manager: Bruce Lewis

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Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB25-45 (P307487-17) Soil Sampled: 07/24/03 15:15 Received: 07/24/03 16:30										
Phenol	ND	12	330	ug/kg	1	3070610	07/29/03	08/02/03	EPA 8270C	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		67 %	11-120			"	"	"	"	
<i>Surrogate: Phenol-d6</i>		76 %	16-130			"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		77 %	16-126			"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		74 %	28-134			"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		87 %	51-144			"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		103 %	64-119			"	"	"	"	

Environmental Resources Management
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Project Manager: Bruce Lewis

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Reported:
08/13/03 16:30

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070628 - EPA 3550A
Blank (3070628-BLK1)

Prepared: 07/30/03 Analyzed: 07/31/03

C-01, C-06

PCB-1016	ND		33	ug/kg							
PCB-1221	ND		33	"							
PCB-1232	ND		33	"							
PCB-1242	ND		33	"							
PCB-1248	ND		33	"							
PCB-1254	ND		33	"							
PCB-1260	ND		33	"							

Surrogate: Decachlorobiphenyl 51.0 " 66.7 76 46-115

Laboratory Control Sample (3070628-BS1)

Prepared: 07/30/03 Analyzed: 07/31/03

C-01, C-06

PCB-1016	237		33	ug/kg	333		71	57-115			
PCB-1260	256		33	"	333		77	71-120			

Surrogate: Decachlorobiphenyl 48.4 " 66.7 73 46-115

Matrix Spike (3070628-MS1)
Source: P307481-01

Prepared: 07/30/03 Analyzed: 07/31/03

C-01, C-06

PCB-1016	282		33	ug/kg	333	ND	85	57-115			
PCB-1260	430		33	"	333	ND	129	71-120			QM-07

Surrogate: Decachlorobiphenyl 39.6 " 66.7 59 46-115

Matrix Spike Dup (3070628-MSD1)
Source: P307481-01

Prepared: 07/30/03 Analyzed: 07/31/03

C-01, C-06

PCB-1016	304		33	ug/kg	333	ND	91	57-115	8	35	
PCB-1260	505		33	"	333	ND	152	71-120	16	35	QM-07

Surrogate: Decachlorobiphenyl 43.2 " 66.7 65 46-115

Environmental Resources Management
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Project: Aerojet RI/FS
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P307487
Reported:
08/13/03 16:30

Tentatively Identified Compounds by GC/MS - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070597 - EPA 3520B LiqLiquid
Blank (3070597-BLK1)

Prepared: 07/28/03 Analyzed: 08/06/03

No TICs found ND 10 ug/l

Batch 3070610 - EPA 3550A Sonication
Blank (3070610-BLK1)

Prepared: 07/29/03 Analyzed: 08/01/03

No TICs found ND 10 ug/kg

Environmental Resources Management
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070597 - EPA 3520B LiqLiquid
Blank (3070597-BLK1)

Prepared: 07/28/03 Analyzed: 08/06/03

Acenaphthene	ND	1.2	10	ug/l							
Acenaphthylene	ND	1.4	10	"							
Anthracene	ND	0.60	10	"							
Azobenzene	ND	0.63	20	"							
Benzidine	ND	3.2	50	"							
Benzoic acid	ND	3.9	50	"							
Benzo (a) anthracene	ND	0.44	10	"							
Benzo (b+k) fluoranthene (total)	ND	1.1	10	"							
Benzo (g,h,i) perylene	ND	0.64	10	"							
Benzo (a) pyrene	ND	0.87	10	"							
Benzyl alcohol	ND	3.9	20	"							
Bis(2-chloroethoxy)methane	ND	1.1	10	"							
Bis(2-chloroethyl)ether	ND	1.5	10	"							
Bis(2-chloroisopropyl)ether	ND	1.5	10	"							
Bis(2-ethylhexyl)phthalate	ND	2.8	10	"							
4-Bromophenyl phenyl ether	ND	0.70	10	"							
Butyl benzyl phthalate	ND	2.7	10	"							
4-Chloroaniline	ND	0.55	20	"							
4-Chloro-3-methylphenol	ND	2.3	20	"							
2-Chloronaphthalene	ND	1.4	10	"							
2-Chlorophenol	ND	0.31	10	"							
4-Chlorophenyl phenyl ether	ND	0.97	10	"							
Chrysene	ND	0.45	10	"							
Dibenz (a,h) anthracene	ND	0.55	10	"							
Dibenzofuran	ND	1.1	10	"							
Di-n-butyl phthalate	ND	1.1	10	"							
1,2-Dichlorobenzene	ND	1.8	10	"							
1,3-Dichlorobenzene	ND	1.8	10	"							
1,4-Dichlorobenzene	ND	1.8	10	"							
3,3'-Dichlorobenzidine	ND	2.9	20	"							
2,4-Dichlorophenol	ND	0.47	10	"							
Diethyl phthalate	ND	0.42	10	"							
2,4-Dimethylphenol	ND	1.4	10	"							
Dimethyl phthalate	ND	0.56	10	"							

Sequoia Analytical - Petaluma

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Environmental Resources Management
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P307487
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070597 - EPA 3520B LiqLiquid
Blank (3070597-BLK1)

Prepared: 07/28/03 Analyzed: 08/06/03

4,6-Dinitro-2-methylphenol	ND	3.4	50	ug/l							
2,4-Dinitrophenol	ND	2.3	50	"							
2,4-Dinitrotoluene	ND	0.82	10	"							
2,6-Dinitrotoluene	ND	0.76	10	"							
Di-n-octyl phthalate	ND	0.81	10	"							
Fluoranthene	ND	0.44	10	"							
Fluorene	ND	1.0	10	"							
Hexachlorobenzene	ND	0.79	10	"							
Hexachlorobutadiene	ND	1.5	10	"							
Hexachlorocyclopentadiene	ND	0.31	10	"							
Hexachloroethane	ND	1.7	10	"							
Indeno (1,2,3-cd) pyrene	ND	0.61	10	"							
Isophorone	ND	0.71	10	"							
2-Methylnaphthalene	ND	1.4	10	"							
2-Methylphenol	ND	3.4	10	"							
4-Methylphenol	ND	3.0	10	"							
Naphthalene	ND	1.6	10	"							
2-Nitroaniline	ND	0.69	50	"							
3-Nitroaniline	ND	0.54	50	"							
4-Nitroaniline	ND	0.61	50	"							
Nitrobenzene	ND	1.3	10	"							
2-Nitrophenol	ND	0.42	10	"							
4-Nitrophenol	ND	0.51	50	"							
N-Nitrosodimethylamine	ND	1.4	20	"							
N-Nitrosodiphenylamine	ND	3.9	10	"							
N-Nitrosodi-n-propylamine	ND	0.58	10	"							
Pentachlorophenol	ND	3.1	50	"							
Phenanthrene	ND	0.56	10	"							
Phenol	ND	0.48	10	"							
Pyrene	ND	0.28	10	"							
Pyridine	ND	3.8	10	"							
1,2,4-Trichlorobenzene	ND	1.7	10	"							
2,4,5-Trichlorophenol	ND	0.61	10	"							
2,4,6-Trichlorophenol	ND	0.31	10	"							

Sequoia Analytical - Petaluma

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08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070597 - EPA 3520B LiqLiquid
Blank (3070597-BLK1)

Prepared: 07/28/03 Analyzed: 08/06/03

Surrogate: 2-Fluorophenol	96.4			ug/l	150		64	15-103			
Surrogate: Phenol-d6	117			"	150		78	18-115			
Surrogate: Nitrobenzene-d5	90.7			"	100		91	39-103			
Surrogate: 2-Fluorobiphenyl	90.2			"	100		90	40-124			
Surrogate: 2,4,6-Tribromophenol	144			"	150		96	11-142			
Surrogate: Terphenyl-d14	121			"	100		121	56-139			

Laboratory Control Sample (3070597-BS1)

Prepared: 07/28/03 Analyzed: 08/06/03

Acenaphthene	83.5	1.2	10	ug/l	100		84	58-120			
4-Chloro-3-methylphenol	77.5	2.3	20	"	100		78	51-116			
2-Chlorophenol	46.0	0.31	10	"	100		46	28-111			
1,4-Dichlorobenzene	63.1	1.8	10	"	100		63	29-108			
2,4-Dinitrotoluene	98.6	0.82	10	"	100		99	60-114			
4-Nitrophenol	96.3	0.51	50	"	100		96	25-148			
N-Nitrosodi-n-propylamine	73.3	0.58	10	"	100		73	29-119			
Pentachlorophenol	81.2	3.1	50	"	100		81	40-131			
Phenol	55.1	0.48	10	"	100		55	22-117			
Pyrene	96.9	0.28	10	"	100		97	52-127			
1,2,4-Trichlorobenzene	69.8	1.7	10	"	100		70	24-131			
Surrogate: 2-Fluorophenol	45.8			"	150		31	15-103			
Surrogate: Phenol-d6	76.8			"	150		51	18-115			
Surrogate: Nitrobenzene-d5	79.2			"	100		79	39-103			
Surrogate: 2-Fluorobiphenyl	82.6			"	100		83	40-124			
Surrogate: 2,4,6-Tribromophenol	123			"	150		82	11-142			
Surrogate: Terphenyl-d14	98.3			"	100		98	56-139			

Laboratory Control Sample Dup (3070597-BSD1)

Prepared: 07/28/03 Analyzed: 08/06/03

Acenaphthene	99.5	1.2	10	ug/l	100		100	58-120	17	27	
4-Chloro-3-methylphenol	104	2.3	20	"	100		104	51-116	29	30	
2-Chlorophenol	72.1	0.31	10	"	100		72	28-111	44	39	QR-02
1,4-Dichlorobenzene	72.7	1.8	10	"	100		73	29-108	14	41	
2,4-Dinitrotoluene	121	0.82	10	"	100		121	60-114	20	22	Q-LIM
4-Nitrophenol	118	0.51	50	"	100		118	25-148	20	44	
N-Nitrosodi-n-propylamine	85.1	0.58	10	"	100		85	29-119	15	44	
Pentachlorophenol	104	3.1	50	"	100		104	40-131	25	33	

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070597 - EPA 3520B LiqLiquid
Laboratory Control Sample Dup (3070597-BSD1)

Prepared: 07/28/03 Analyzed: 08/06/03

Phenol	77.2	0.48	10	ug/l	100	77	77	22-117	33	33	
Pyrene	117	0.28	10	"	100	117	117	52-127	19	25	
1,2,4-Trichlorobenzene	78.9	1.7	10	"	100	79	79	24-131	12	48	
Surrogate: 2-Fluorophenol	81.4			"	150	54	54	15-103			
Surrogate: Phenol-d6	112			"	150	75	75	18-115			
Surrogate: Nitrobenzene-d5	90.7			"	100	91	91	39-103			
Surrogate: 2-Fluorobiphenyl	97.2			"	100	97	97	40-124			
Surrogate: 2,4,6-Tribromophenol	172			"	150	115	115	11-142			
Surrogate: Terphenyl-d14	118			"	100	118	118	56-139			

Batch 3070610 - EPA 3550A Sonication
Blank (3070610-BLK1)

Prepared: 07/29/03 Analyzed: 08/01/03

Acenaphthene	ND	8.7	330	ug/kg							
Acenaphthylene	ND	7.6	330	"							
Anthracene	ND	14	330	"							
Azobenzene	ND	20	330	"							
Benzidine	ND	1700	1700	"							
Benzoic acid	ND	2.7	1700	"							
Benzo (a) anthracene	ND	7.6	330	"							
Benzo (b+k) fluoranthene (total)	ND	13	330	"							
Benzo (g,h,i) perylene	ND	8.8	330	"							
Benzo (a) pyrene	ND	10	330	"							
Benzyl alcohol	ND	11	660	"							
Bis(2-chloroethoxy)methane	ND	9.1	330	"							
Bis(2-chloroethyl)ether	ND	15	330	"							
Bis(2-chloroisopropyl)ether	ND	16	330	"							
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"							
4-Bromophenyl phenyl ether	ND	13	330	"							
Butyl benzyl phthalate	ND	11	330	"							
4-Chloroaniline	ND	58	660	"							
4-Chloro-3-methylphenol	ND	11	660	"							
2-Chloronaphthalene	ND	9.9	330	"							
2-Chlorophenol	ND	16	330	"							
4-Chlorophenyl phenyl ether	ND	13	330	"							

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070610 - EPA 3550A Sonication
Blank (3070610-BLK1)

Prepared: 07/29/03 Analyzed: 08/01/03

Chrysene	ND	11	330	ug/kg							
Dibenz (a,h) anthracene	ND	18	330	"							
Dibenzofuran	ND	9.6	330	"							
Di-n-butyl phthalate	ND	12	330	"							
1,2-Dichlorobenzene	ND	16	330	"							
1,3-Dichlorobenzene	ND	14	330	"							
1,4-Dichlorobenzene	ND	15	330	"							
3,3'-Dichlorobenzidine	ND	44	660	"							
2,4-Dichlorophenol	ND	15	330	"							
Diethyl phthalate	ND	14	330	"							
2,4-Dimethylphenol	ND	36	330	"							
Dimethyl phthalate	ND	11	330	"							
4,6-Dinitro-2-methylphenol	ND	17	1700	"							
2,4-Dinitrophenol	ND	10	1700	"							
2,4-Dinitrotoluene	ND	20	330	"							
2,6-Dinitrotoluene	ND	13	330	"							
Di-n-octyl phthalate	ND	11	330	"							
Fluoranthene	ND	11	330	"							
Fluorene	ND	7.9	330	"							
Hexachlorobenzene	ND	15	330	"							
Hexachlorobutadiene	ND	17	330	"							
Hexachlorocyclopentadiene	ND	10	330	"							
Hexachloroethane	ND	17	330	"							
Indeno (1,2,3-cd) pyrene	ND	11	330	"							
Isophorone	ND	14	330	"							
2-Methylnaphthalene	ND	10	330	"							
2-Methylphenol	ND	16	330	"							
4-Methylphenol	ND	11	330	"							
Naphthalene	ND	13	330	"							
2-Nitroaniline	ND	17	1700	"							
3-Nitroaniline	ND	18	1700	"							
4-Nitroaniline	ND	22	1700	"							
Nitrobenzene	ND	16	330	"							
2-Nitrophenol	ND	14	330	"							

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070610 - EPA 3550A Sonication
Blank (3070610-BLK1)

Prepared: 07/29/03 Analyzed: 08/01/03

4-Nitrophenol	ND	23	1700	ug/kg							
N-Nitrosodimethylamine	ND	16	330	"							
N-Nitrosodiphenylamine	ND	17	330	"							
N-Nitrosodi-n-propylamine	ND	15	330	"							
Pentachlorophenol	ND	12	1700	"							
Phenanthrene	ND	14	330	"							
Phenol	ND	12	330	"							
Pyrene	ND	12	330	"							
1,2,4-Trichlorobenzene	ND	15	330	"							
2,4,5-Trichlorophenol	ND	14	330	"							
2,4,6-Trichlorophenol	ND	9.4	330	"							
<i>Surrogate: 2-Fluorophenol</i>	<i>3300</i>			<i>"</i>	<i>5000</i>		<i>66</i>	<i>11-120</i>			
<i>Surrogate: Phenol-d6</i>	<i>3680</i>			<i>"</i>	<i>5000</i>		<i>74</i>	<i>16-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2610</i>			<i>"</i>	<i>3330</i>		<i>78</i>	<i>16-126</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2760</i>			<i>"</i>	<i>3330</i>		<i>83</i>	<i>28-134</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>4340</i>			<i>"</i>	<i>5000</i>		<i>87</i>	<i>51-144</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>3510</i>			<i>"</i>	<i>3330</i>		<i>105</i>	<i>64-119</i>			

Laboratory Control Sample (3070610-BS1)

Prepared: 07/29/03 Analyzed: 08/01/03

Acenaphthene	3080	8.7	330	ug/kg	3330		92	34-114			
4-Chloro-3-methylphenol	3240	11	660	"	3330		97	24-118			
2-Chlorophenol	2690	16	330	"	3330		81	29-101			
1,4-Dichlorobenzene	2660	15	330	"	3330		80	25-104			
2,4-Dinitrotoluene	3690	20	330	"	3330		111	42-116			
4-Nitrophenol	3600	23	1700	"	3330		108	31-109			
N-Nitrosodi-n-propylamine	2860	15	330	"	3330		86	23-117			
Pentachlorophenol	3390	12	1700	"	3330		102	34-114			
Phenol	2810	12	330	"	3330		84	20-105			
Pyrene	3740	12	330	"	3330		112	30-124			
1,2,4-Trichlorobenzene	2960	15	330	"	3330		89	28-112			
<i>Surrogate: 2-Fluorophenol</i>	<i>3670</i>			<i>"</i>	<i>5000</i>		<i>73</i>	<i>11-120</i>			
<i>Surrogate: Phenol-d6</i>	<i>4060</i>			<i>"</i>	<i>5000</i>		<i>81</i>	<i>16-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2910</i>			<i>"</i>	<i>3330</i>		<i>87</i>	<i>16-126</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>3050</i>			<i>"</i>	<i>3330</i>		<i>92</i>	<i>28-134</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>5300</i>			<i>"</i>	<i>5000</i>		<i>106</i>	<i>51-144</i>			

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070610 - EPA 3550A Sonication
Laboratory Control Sample (3070610-BS1)

Prepared: 07/29/03 Analyzed: 08/01/03

<i>Surrogate: Terphenyl-d14</i>	3750			ug/kg	3330		113	64-119			
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Matrix Spike (3070610-MS1)
Source: P307437-06

Prepared: 07/29/03 Analyzed: 08/01/03

Acenaphthene	3240	8.7	330	ug/kg	3330	ND	97	30-110			
4-Chloro-3-methylphenol	3290	11	660	"	3330	ND	99	27-109			
2-Chlorophenol	2710	16	330	"	3330	ND	81	24-98			
1,4-Dichlorobenzene	2710	15	330	"	3330	ND	81	24-89			
2,4-Dinitrotoluene	3700	20	330	"	3330	ND	111	35-110			QM-07
4-Nitrophenol	3630	23	1700	"	3330	ND	109	20-110			
N-Nitrosodi-n-propylamine	2930	15	330	"	3330	ND	88	23-109			
Pentachlorophenol	3290	12	1700	"	3330	ND	99	25-123			
Phenol	2850	12	330	"	3330	ND	86	19-100			
Pyrene	3630	12	330	"	3330	ND	109	12-131			
1,2,4-Trichlorobenzene	2970	15	330	"	3330	ND	89	17-110			

<i>Surrogate: 2-Fluorophenol</i>	3310			"	5000		66	11-120			
<i>Surrogate: Phenol-d6</i>	3890			"	5000		78	16-130			
<i>Surrogate: Nitrobenzene-d5</i>	2790			"	3330		84	16-126			
<i>Surrogate: 2-Fluorobiphenyl</i>	2840			"	3330		85	28-134			
<i>Surrogate: 2,4,6-Tribromophenol</i>	4210			"	5000		84	51-144			
<i>Surrogate: Terphenyl-d14</i>	3540			"	3330		106	64-119			

Matrix Spike Dup (3070610-MSD1)
Source: P307437-06

Prepared: 07/29/03 Analyzed: 08/01/03

Acenaphthene	3320	8.7	330	ug/kg	3330	ND	100	30-110	2	26	
4-Chloro-3-methylphenol	3440	11	660	"	3330	ND	103	27-109	4	21	
2-Chlorophenol	2850	16	330	"	3330	ND	86	24-98	5	27	
1,4-Dichlorobenzene	2800	15	330	"	3330	ND	84	24-89	3	25	
2,4-Dinitrotoluene	3810	20	330	"	3330	ND	114	35-110	3	15	QM-07
4-Nitrophenol	3740	23	1700	"	3330	ND	112	20-110	3	23	QM-07
N-Nitrosodi-n-propylamine	3060	15	330	"	3330	ND	92	23-109	4	31	
Pentachlorophenol	3440	12	1700	"	3330	ND	103	25-123	4	43	
Phenol	2960	12	330	"	3330	ND	89	19-100	4	21	
Pyrene	3750	12	330	"	3330	ND	113	12-131	3	26	
1,2,4-Trichlorobenzene	3110	15	330	"	3330	ND	93	17-110	5	30	

<i>Surrogate: 2-Fluorophenol</i>	3450			"	5000		69	11-120			
<i>Surrogate: Phenol-d6</i>	4030			"	5000		81	16-130			

Sequoia Analytical - Petaluma

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Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento CA, 95833

Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070610 - EPA 3550A Sonication
Matrix Spike Dup (3070610-MSD1)
Source: P307437-06

Prepared: 07/29/03 Analyzed: 08/01/03

Surrogate: Nitrobenzene-d5	2980			ug/kg	3330		89	16-126			
Surrogate: 2-Fluorobiphenyl	3050			"	3330		92	28-134			
Surrogate: 2,4,6-Tribromophenol	4310			"	5000		86	51-144			
Surrogate: Terphenyl-d14	3630			"	3330		109	64-119			

Environmental Resources Management
2525 Natomas Park Drive, Suite 350
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Project: Aerojet RI/FS
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Project Manager: Bruce Lewis

P307487
Reported:
08/13/03 16:30

Notes and Definitions

C-01	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665, which is specific to hydrocarbon contamination.
C-06	To reduce matrix interference, the sample extract has undergone TBA (sulfur) clean-up, method 3660B.
J	Estimated value.
Q-LIM	The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-02	The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

No 1103

E.T.R. NO: WORK ORDER NO: No 1103

SOURCE SITE NO: AUGER HOLE NO:

49

SAMPLERS (SIGNATURE): *Demian Wincele*

COC SAMPLE ID FIELD SAMPLE NO. DEPTH (FT.) DATE MM/DD/YY TIME TYPE OF CONTAINER

COC SAMPLE ID	FIELD SAMPLE NO.	DEPTH (FT.)	DATE MM/DD/YY	TIME	TYPE OF CONTAINER	# OF SAMPLE CONTAINERS	SOIL TYPE (USCS CODE)	VOLATILE ORGANICS EPA 8240	BNA's EPA 8270	METALS EPA 6010	PERCHLORATE EDL-SW-006	REQUESTED SAMPLE ANALYSES	LABORATORY QA/QC	REMARKS
1103 A	35D-SB25-25	2.5	07/24/03	1049	EX-105	1	GM					X		REPORT TCS D30748-1
1103 B	35D-SB25-10	10	07/24/03	1111			GM					X		
1103 C	35D-SB25-35	35	07/24/03	1309			SM					X		
1103 D	35D-SB25-40	40	07/24/03	1343			SM					X		
1103 E	35D-SB25-45E	—	07/24/03	1428	1/2 Amber		—					X		
1103 F	35D-SB25-45	45	07/24/03	1515	EX-105		SM					X		REPORT TCS -17
1103 G														
1103 H														
1103 I														
1103 J														
1103 K														
1103 L														
1103 M														
1103 N														
1103 O														
1103 P														
1103 Q														
TOTALS														

REINQUISHED BY: (SIGNATURE) *Demian Wincele* DATE/TIME *7/24/03 19:5* RECEIVED BY: (SIGNATURE) *[Signature]* TOTAL NO. OF SAMPLE CONTAINERS: *6*

REINQUISHED BY: (SIGNATURE) *[Signature]* DATE/TIME *7/24/03* RECEIVED BY: (SIGNATURE) *[Signature]* METHOD OF SHIPMENT: *[Signature]*

REINQUISHED BY: (SIGNATURE) *[Signature]* DATE/TIME *7-24 16:30* RECEIVED BY: (SIGNATURE) *[Signature]* LABORATORY DELIVERED TO: *[Signature]*

COMMENTS: *Reinquinshed = morica (green) SB25-45E 7/24/03*

7-25-03 12:00

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Severest
 REC. BY (PRINT) SR
 WORKORDER: P3137487

DATE Received at Lab: 7/25/03
 TIME Received at Lab: 11400
 LOG IN DATE: 7/25/03

(Drinking water) for regulatory purposes: YES/NO
 (Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*	*						
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*			IDD-SN5 35	MC	S	7/24/03	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent			25				
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent			33				
5. Airbill #:			34				
6. Sample Labels: <input checked="" type="radio"/> Present / Absent <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody			31				
7. Sample IDs:			26				
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*			32				
9. Does information on custody reports, traffic reports and sample labels agree?			32				
10. Sample received within hold time: <input checked="" type="radio"/> Yes / No*			29				
11. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*			27				
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.: 4+/-2°C)			30				
			051D				
			35D-SB25-2.5				
			10				
			35				
			20				
			45E	IXLHA			
			45	MC	W		

*If Circled, contact Project Manager and attach record of resolution.