UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name ----------Lisbon Refinery

Sample Collection Date(s)-- 05/14/09

Contact---------- Greg Valentine (6EN-AS)

Report Date---------- 07/31/09

Project #---------- 09CAA220

Work Order(s)----------0905027

RECEIVE
AUG 1 0 2009
Air/Toxics & Inspection
Coordination Branch
6EN-A

Analyses included in this report:

ABN 8270 Routine List

VOA 8260 Routine List

Report Narrative

This report is amended to rereport the volatile data in entirety and to additionally report Tentatively Identified Compounds (TICs) for samples 0905027-01 to -04 for volatiles and semi-volatiles per customer request. The original volatile data from report dated 6/16/09 should be disregarded because those concentrations are incorrect. This problem was discovered and corrected during the review of the TIC data.

Due to high concentrations in the matrix, very large dilutions were required to achieve adequate chromatography. This caused high reporting limits (RLs) for all analytes.

Volatile analysis:

Two analytes fail high in the MS and MSD. Neither were found in the associated samples.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Lisbon Refinery

Project Number: 09CAA220

Data Management Coordinator: Christy Warren

Christy Warren 8/6/09

Data Management Coordinator Signature

Date

Date Transmitted: 8/6/09

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____ / ____ / ____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature

Date

Please provide a reason for holding:

Environmental Protection Agency

Region 6 Laboratory

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
TK-A1	0905027-01	Non-Aqueous Liquid	5/14/09 13:55	05/15/09 11:15
TK-B2	0905027-02	Non-Aqueous Liquid	5/14/09 14:20	05/15/09 11:15
TK-C3	0905027-03	Non-Aqueous Liquid	5/14/09 14:32	05/15/09 11:15
TK-M13	0905027-04	Non-Aqueous Liquid	5/14/09 14:46	05/15/09 11:15
TK-O15	0905027-05	Non-Aqueous Liquid	5/14/09 15:02	05/15/09 11:15
FB	0905027-06	Liquid	5/14/09 15:12	05/15/09 11:15

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Region 6 Laboratory
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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-01 **Station ID: TK-A1**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	48.8		97.7	84-117	05/18/09	05/18/09
Surr: Toluene-d8	51.7		103	79-123	"	"
Surr: 4-Bromofluorobenzene	50.1		100	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		499,000	20000	05/18/09	05/18/09
Chloromethane (74-87-3)	U		499,000	"	"	"
Vinyl chloride (75-01-4)	U		199,000	"	"	"
Bromomethane (74-83-9)	U		499,000	"	"	"
Chloroethane (75-00-3)	U		199,000	"	"	"
Trichlorofluoromethane (75-69-4)	U		199,000	"	"	"
1,1-Dichloroethene (75-35-4)	U		199,000	"	"	"
Carbon disulfide (75-15-0)	U		199,000	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		199,000	"	"	"
Acetone (67-64-1)	U		997,000	"	"	"
Methylene chloride (75-09-2)	U		199,000	"	"	"
Methyl acetate (79-20-9)	U		499,000	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		199,000	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		199,000	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		199,000	"	"	"
1,1-Dichloroethane (75-34-3)	U		199,000	"	"	"
2-Butanone (78-93-3)	U		499,000	"	"	"
Chloroform (67-66-3)	U		199,000	"	"	"
1,2-Dichloroethane (107-06-2)	U		199,000	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		199,000	"	"	"
Cyclohexane (110-82-7)	**21,400,000**		199,000	"	"	"
Carbon tetrachloride (56-23-5)	U		199,000	"	"	"
Benzene (71-43-2)	**15,100,000**		199,000	"	"	"
Trichloroethene (79-01-6)	U		199,000	"	"	"
Methylcyclohexane (108-87-2)	**25,800,000**		199,000	"	"	"
1,2-Dichloropropane (78-87-5)	U		199,000	"	"	"
Bromodichloromethane (75-27-4)	U		199,000	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		199,000	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		199,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-01 **Station ID: TK-A1**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		199,000	20000	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		199,000	"	"	"
Bromoform (75-25-2)	U		199,000	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		499,000	"	"	"
Toluene (108-88-3)	**31,000,000**		199,000	"	"	"
Tetrachloroethene (127-18-4)	U		199,000	"	"	"
2-Hexanone (591-78-6)	U		499,000	"	"	"
1,2-Dibromoethane (106-93-4)	U		199,000	"	"	"
Chlorobenzene (108-90-7)	U		199,000	"	"	"
Ethylbenzene (100-41-4)	**2,860,000**		199,000	"	"	"
meta-/para-Xylene (na)	**20,700,000**		399,000	"	"	"
ortho-Xylene (95-47-6)	**6,050,000**		199,000	"	"	"
Styrene (100-42-5)	U		199,000	"	"	"
Isopropylbenzene (98-82-8)	**662,000**		199,000	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		199,000	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		199,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		199,000	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		199,000	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		499,000	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		499,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-01 **Station ID: TK-A1**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Butane, 2-methyl- (000078-78-4)	**3,300,000**		2.03	20000	05/18/09	05/18/09
Pentane, 2-methyl- (107-83-5)	**4,500,000**		3.15	"	"	"
Hexane (110-54-3)	**4,900,000**		3.79	"	"	"
Heptane (142-82-5)	**32,000,000**		6.16	"	"	"
C8H18 isomer (NA)	**3,600,000**		6.84	"	"	"
Heptane, 2-methyl- (592-27-8)	**13,000,000**		7.45	"	"	"
unknown hydrocarbon (02) (NA)	**3,900,000**		7.49	"	"	"
Heptane, 3-methyl- (589-81-1)	**14,000,000**		7.60	"	"	"
Octane (111-65-9)	**26,000,000**		8.06	"	"	"
Heptane, 2,5-dimethyl- (2216-30-0)	**4,600,000**		8.66	"	"	"
Cyclohexane, ethyl- (1678-91-7)	**3,600,000**		8.75	"	"	"
C9H20 isomer (NA)	**11,000,000**		9.10	"	"	"
Octane, 3-methyl- (002216-33-3)	**6,800,000**		9.21	"	"	"
Nonane (111-84-2)	**22,000,000**		9.61	"	"	"
Nonane, 3-methyl- (005911-04-6)	**3,800,000**		10.59	"	"	"
C9H12 isomer (01) (NA)	**6,300,000**		10.82	"	"	"
C9H12 isomer (02) (NA)	**3,900,000**		10.90	"	"	"
Decane (124-18-5)	**15,000,000**		10.95	"	"	"
C9H12 isomer (03) (NA)	**5,700,000**		11.27	"	"	"
Undecane (1120-21-4)	**6,500,000**		12.13	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0905027-01RE1 **Station ID: TK-A1**

Batch: B9G1001 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.15 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Tridecane (629-50-5)	**5,600,000**		5.70	1	05/21/09	05/26/09
Heptylcyclohexane (005617-41-4)	**1,400,000**		5.98	"	"	"
Tridecane, 4-methyl- (26730-12-1)	**610,000**		6.02	"	"	"
Tridecane, 2-methyl- (001560-96-9)	**740,000**		6.05	"	"	"
Tridecane, 3-methyl- (6418-41-3)	**600,000**		6.10	"	"	"
Tetradecane (629-59-4)	**3,600,000**		6.28	"	"	"
Dimethylnaphthalene isomer (NA)	**1,100,000**		6.53	"	"	"
Unknown branched alkane (NA)	**940,000**		6.62	"	"	"
Pentadecane (629-62-9)	**2,700,000**		6.84	"	"	"
Hexadecane (544-76-3)	**2,000,000**		7.35	"	"	"
Pentadecane, 2,6,10-trimethyl- (3892-00-0)	**1,200,000**		7.58	"	"	"
Heptadecane (629-78-7)	**1,700,000**		7.85	"	"	"
Octadecane (593-45-3)	**1,500,000**		8.32	"	"	"
Nonadecane (629-92-5)	**1,300,000**		8.77	"	"	"
Eicosane (112-95-8)	**1,200,000**		9.19	"	"	"
Heneicosane (629-94-7)	**930,000**		9.60	"	"	"
Docosane (629-97-0)	**940,000**		10.00	"	"	"
Tricosane (638-67-5)	**870,000**		10.37	"	"	"
Tetracosane (646-31-1)	**810,000**		10.73	"	"	"
Pentacosane (629-99-2)	**650,000**		11.08	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-02 **Station ID: TK-B2**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.002 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	47.5		95.0	84-117	05/18/09	05/18/09
Surr: Toluene-d8	49.6		99.3	79-123	"	"
Surr: 4-Bromofluorobenzene	48.3		96.6	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		499,000	20000	05/18/09	05/18/09
Chloromethane (74-87-3)	U		499,000	"	"	"
Vinyl chloride (75-01-4)	U		200,000	"	"	"
Bromomethane (74-83-9)	U		499,000	"	"	"
Chloroethane (75-00-3)	U		200,000	"	"	"
Trichlorofluoromethane (75-69-4)	U		200,000	"	"	"
1,1-Dichloroethene (75-35-4)	U		200,000	"	"	"
Carbon disulfide (75-15-0)	U		200,000	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		200,000	"	"	"
Acetone (67-64-1)	U		998,000	"	"	"
Methylene chloride (75-09-2)	U		200,000	"	"	"
Methyl acetate (79-20-9)	U		499,000	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		200,000	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		200,000	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		200,000	"	"	"
1,1-Dichloroethane (75-34-3)	U		200,000	"	"	"
2-Butanone (78-93-3)	U		499,000	"	"	"
Chloroform (67-66-3)	U		200,000	"	"	"
1,2-Dichloroethane (107-06-2)	U		200,000	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		200,000	"	"	"
Cyclohexane (110-82-7)	**22,100,000**		200,000	"	"	"
Carbon tetrachloride (56-23-5)	U		200,000	"	"	"
Benzene (71-43-2)	**16,800,000**		200,000	"	"	"
Trichloroethene (79-01-6)	U		200,000	"	"	"
Methylcyclohexane (108-87-2)	**28,000,000**		200,000	"	"	"
1,2-Dichloropropane (78-87-5)	U		200,000	"	"	"
Bromodichloromethane (75-27-4)	U		200,000	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		200,000	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		200,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-02 **Station ID: TK-B2**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.002 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		200,000	20000	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		200,000	"	"	"
Bromoform (75-25-2)	U		200,000	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		499,000	"	"	"
Toluene (108-88-3)	**35,100,000**		200,000	"	"	"
Tetrachloroethene (127-18-4)	U		200,000	"	"	"
2-Hexanone (591-78-6)	U		499,000	"	"	"
1,2-Dibromoethane (106-93-4)	U		200,000	"	"	"
Chlorobenzene (108-90-7)	U		200,000	"	"	"
Ethylbenzene (100-41-4)	**2,960,000**		200,000	"	"	"
meta-/para-Xylene (na)	**21,000,000**		399,000	"	"	"
ortho-Xylene (95-47-6)	**6,120,000**		200,000	"	"	"
Styrene (100-42-5)	U		200,000	"	"	"
Isopropylbenzene (98-82-8)	**631,000**		200,000	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		200,000	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		200,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		200,000	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		200,000	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		499,000	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		499,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-02 **Station ID: TK-B2**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.002 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Pentane, 2-methyl- (107-83-5)	**4,100,000**		3.15	20000	05/18/09	05/18/09
Hexane (110-54-3)	**4,700,000**		3.79	"	"	"
Heptane (142-82-5)	**31,000,000**		6.16	"	"	"
C8H18 isomer (NA)	**3,600,000**		6.85	"	"	"
Heptane, 2-methyl- (592-27-8)	**13,000,000**		7.45	"	"	"
Unknown hydrocarbon (NA)	**4,200,000**		7.49	"	"	"
Heptane, 3-methyl- (589-81-1)	**14,000,000**		7.60	"	"	"
Octane (111-65-9)	**28,000,000**		8.06	"	"	"
Heptane, 2,5-dimethyl- (2216-30-0)	**5,300,000**		8.66	"	"	"
Cyclohexane, ethyl- (1678-91-7)	**4,100,000**		8.75	"	"	"
C9H20 isomer (NA)	**12,000,000**		9.09	"	"	"
Octane, 3-methyl- (002216-33-3)	**7,400,000**		9.22	"	"	"
Nonane (111-84-2)	**22,000,000**		9.61	"	"	"
C9H18 isomer (NA)	**3,300,000**		10.19	"	"	"
Nonane, 3-methyl- (005911-04-6)	**4,100,000**		10.59	"	"	"
C9H12 isomer (01) (NA)	**5,900,000**		10.82	"	"	"
C9H12 isomer (02) (NA)	**3,800,000**		10.90	"	"	"
Decane (124-18-5)	**13,000,000**		10.95	"	"	"
C9H12 isomer (03) (NA)	**5,500,000**		11.27	"	"	"
Undecane (1120-21-4)	**5,900,000**		12.13	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0905027-02RE1 **Station ID: TK-B2**

Batch: B9G1001 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.153 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Tridecane (629-50-5)	**4,400,000**		5.69	1	05/21/09	05/26/09
Heptylcyclohexane (005617-41-4)	**1,400,000**		5.97	"	"	"
Tridecane, 4-methyl- (26730-12-1)	**500,000**		6.02	"	"	"
Tetradecane (629-59-4)	**3,700,000**		6.27	"	"	"
Dimethylnaphthalene isomer (NA)	**840,000**		6.53	"	"	"
Unknown branched alkane (NA)	**870,000**		6.62	"	"	"
Pentadecane (629-62-9)	**2,400,000**		6.83	"	"	"
Hexadecane (544-76-3)	**2,200,000**		7.35	"	"	"
Pentadecane, 2,6,10-trimethyl- (3892-00-0)	**1,400,000**		7.58	"	"	"
Heptadecane (629-78-7)	**1,400,000**		7.85	"	"	"
Pentadecane, 2,6,10,14-tetr... (1921-70-6)	**560,000**		7.87	"	"	"
Octadecane (593-45-3)	**1,200,000**		8.32	"	"	"
Nonadecane (629-92-5)	**1,000,000**		8.77	"	"	"
Eicosane (112-95-8)	**1,000,000**		9.19	"	"	"
Heneicosane (629-94-7)	**800,000**		9.60	"	"	"
Docosane (629-97-0)	**780,000**		10.00	"	"	"
Tricosane (638-67-5)	**730,000**		10.37	"	"	"
Tetracosane (646-31-1)	**650,000**		10.73	"	"	"
Pentacosane (629-99-2)	**580,000**		11.08	"	"	"
Hexacosane (630-01-3)	**480,000**		11.42	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-03 **Station ID: TK-C3**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	45.8		91.7	84-117	05/18/09	05/18/09
Surr: Toluene-d8	48.2		96.5	79-123	"	"
Surr: 4-Bromofluorobenzene	47.4		94.8	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		99,700	4000	05/18/09	05/18/09
Chloromethane (74-87-3)	U		99,700	"	"	"
Vinyl chloride (75-01-4)	U		39,900	"	"	"
Bromomethane (74-83-9)	U		99,700	"	"	"
Chloroethane (75-00-3)	U		39,900	"	"	"
Trichlorofluoromethane (75-69-4)	U		39,900	"	"	"
1,1-Dichloroethene (75-35-4)	U		39,900	"	"	"
Carbon disulfide (75-15-0)	U		39,900	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		39,900	"	"	"
Acetone (67-64-1)	U		199,000	"	"	"
Methylene chloride (75-09-2)	U		39,900	"	"	"
Methyl acetate (79-20-9)	U		99,700	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		39,900	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		39,900	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		39,900	"	"	"
1,1-Dichloroethane (75-34-3)	U		39,900	"	"	"
2-Butanone (78-93-3)	U		99,700	"	"	"
Chloroform (67-66-3)	U		39,900	"	"	"
1,2-Dichloroethane (107-06-2)	U		39,900	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		39,900	"	"	"
Cyclohexane (110-82-7)	**2,770,000**		39,900	"	"	"
Carbon tetrachloride (56-23-5)	U		39,900	"	"	"
Benzene (71-43-2)	**3,970,000**		39,900	"	"	"
Trichloroethene (79-01-6)	U		39,900	"	"	"
Methylcyclohexane (108-87-2)	**3,390,000**		39,900	"	"	"
1,2-Dichloropropane (78-87-5)	U		39,900	"	"	"
Bromodichloromethane (75-27-4)	U		39,900	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		39,900	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		39,900	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-03 **Station ID: TK-C3**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		39,900	4000	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		39,900	"	"	"
Bromoform (75-25-2)	U		39,900	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		99,700	"	"	"
Toluene (108-88-3)	**1,170,000**		39,900	"	"	"
Tetrachloroethene (127-18-4)	U		39,900	"	"	"
2-Hexanone (591-78-6)	U		99,700	"	"	"
1,2-Dibromoethane (106-93-4)	U		39,900	"	"	"
Chlorobenzene (108-90-7)	U		39,900	"	"	"
Ethylbenzene (100-41-4)	**237,000**		39,900	"	"	"
meta-/para-Xylene (na)	**953,000**		79,800	"	"	"
ortho-Xylene (95-47-6)	**508,000**		39,900	"	"	"
Styrene (100-42-5)	U		39,900	"	"	"
Isopropylbenzene (98-82-8)	**62,800**		39,900	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		39,900	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		39,900	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		39,900	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		39,900	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		99,700	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		99,700	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-03 **Station ID: TK-C3**

Batch: B9F0502 Date Collected: 05/14/09

Sample Type: Non-Aqueous Liquid Sample Weight: 1.003 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Pentane (109-66-0)	**740,000**		2.24	4000	05/18/09	05/18/09
Hexane (110-54-3)	**970,000**		3.79	"	"	"
Hexane, 3-methyl- (589-34-4)	**2,300,000**		5.63	"	"	"
Heptane (142-82-5)	**4,000,000**		6.16	"	"	"
C8H18 isomer (NA)	**780,000**		6.85	"	"	"
Heptane, 2-methyl- (592-27-8)	**2,200,000**		7.45	"	"	"
Heptane, 3-methyl- (589-81-1)	**2,300,000**		7.60	"	"	"
Octane (111-65-9)	**3,900,000**		8.06	"	"	"
Heptane, 2,6-dimethyl- (1072-05-5)	**840,000**		8.54	"	"	"
Heptane, 2,5-dimethyl- (2216-30-0)	**870,000**		8.66	"	"	"
Cyclohexane, ethyl- (1678-91-7)	**1,100,000**		8.75	"	"	"
C9H20 isomer (01) (NA)	**710,000**		9.01	"	"	"
C9H20 isomer (02) (NA)	**2,400,000**		9.10	"	"	"
Octane, 3-methyl- (002216-33-3)	**1,600,000**		9.22	"	"	"
Nonane (111-84-2)	**4,000,000**		9.61	"	"	"
C10H22 isomer (NA)	**810,000**		10.10	"	"	"
C9H18 isomer (NA)	**1,500,000**		10.19	"	"	"
Nonane, 3-methyl- (005911-04-6)	**1,000,000**		10.59	"	"	"
Decane (124-18-5)	**2,500,000**		10.95	"	"	"
Undecane (1120-21-4)	**880,000**		12.13	"	"	"

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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0905027-03RE1 **Station ID: TK-C3**

Batch: B9G1001 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.154 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown branched alkane (08) (NA)	**1,300,000**		4.51	1	05/21/09	05/26/09
Undecane, 2-methyl- (7045-71-8)	**1,200,000**		4.82	"	"	"
Unknown branched alkane (07) (NA)	**1,900,000**		5.51	"	"	"
Tridecane (629-50-5)	**4,200,000**		5.69	"	"	"
Heptylcyclohexane (005617-41-4)	**1,500,000**		5.98	"	"	"
Dodecane, 2,6,10-trimethyl- (003891-98-3)	**870,000**		6.14	"	"	"
Tetradecane (629-59-4)	**3,800,000**		6.28	"	"	"
Unknown branched alkane (09) (NA)	**1,400,000**		6.54	"	"	"
Unknown branched alkane (10) (NA)	**1,100,000**		6.63	"	"	"
Pentadecane (629-62-9)	**2,900,000**		6.84	"	"	"
Pentadecane, 3-methyl- (2882-96-4)	**840,000**		7.20	"	"	"
Hexadecane (544-76-3)	**1,800,000**		7.36	"	"	"
Pentadecane, 2,6,10-trimethyl- (3892-00-0)	**2,100,000**		7.60	"	"	"
Heptadecane (629-78-7)	**1,300,000**		7.86	"	"	"
Octadecane (593-45-3)	**1,400,000**		8.33	"	"	"
Hexadecane, 2,6,10,14-tetra... (638-36-8)	**1,100,000**		8.38	"	"	"
Nonadecane (629-92-5)	**1,100,000**		8.78	"	"	"
Eicosane (112-95-8)	**1,000,000**		9.21	"	"	"
Docosane (629-97-0)	**860,000**		10.01	"	"	"
Tricosane (638-67-5)	**820,000**		10.38	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-04 **Station ID: TK-M13**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.998 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	44.7		89.4	84-117	05/18/09	05/18/09
Surr: Toluene-d8	57.6		115	79-123	"	"
Surr: 4-Bromofluorobenzene	48.8		97.6	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		50,100	2000	05/18/09	05/18/09
Chloromethane (74-87-3)	U		50,100	"	"	"
Vinyl chloride (75-01-4)	U		20,000	"	"	"
Bromomethane (74-83-9)	U		50,100	"	"	"
Chloroethane (75-00-3)	U		20,000	"	"	"
Trichlorofluoromethane (75-69-4)	U		20,000	"	"	"
1,1-Dichloroethene (75-35-4)	U		20,000	"	"	"
Carbon disulfide (75-15-0)	U		20,000	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		20,000	"	"	"
Acetone (67-64-1)	U		100,000	"	"	"
Methylene chloride (75-09-2)	U		20,000	"	"	"
Methyl acetate (79-20-9)	U		50,100	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		20,000	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		20,000	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		20,000	"	"	"
1,1-Dichloroethane (75-34-3)	U		20,000	"	"	"
2-Butanone (78-93-3)	U		50,100	"	"	"
Chloroform (67-66-3)	U		20,000	"	"	"
1,2-Dichloroethane (107-06-2)	U		20,000	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		20,000	"	"	"
Cyclohexane (110-82-7)	**5,610,000**		50,100	5000	"	05/18/09
Carbon tetrachloride (56-23-5)	U		20,000	2000	"	05/18/09
Benzene (71-43-2)	**4,800,000**		50,100	5000	"	05/18/09
Trichloroethene (79-01-6)	U		20,000	2000	"	05/18/09
Methylcyclohexane (108-87-2)	**7,850,000**		50,100	5000	"	05/18/09
1,2-Dichloropropane (78-87-5)	U		20,000	2000	"	05/18/09
Bromodichloromethane (75-27-4)	U		20,000	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		20,000	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		20,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-04 **Station ID: TK-M13**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.998 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		20,000	2000	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		20,000	"	"	"
Bromoform (75-25-2)	U		20,000	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		50,100	"	"	"
Toluene (108-88-3)	**5,180,000**		50,100	5000	"	05/18/09
Tetrachloroethene (127-18-4)	U		20,000	2000	"	05/18/09
2-Hexanone (591-78-6)	U		50,100	"	"	"
1,2-Dibromoethane (106-93-4)	U		20,000	"	"	"
Chlorobenzene (108-90-7)	U		20,000	"	"	"
Ethylbenzene (100-41-4)	**590,000**		20,000	"	"	"
meta-/para-Xylene (na)	**3,670,000**		40,100	"	"	"
ortho-Xylene (95-47-6)	**1,140,000**		20,000	"	"	"
Styrene (100-42-5)	U		20,000	"	"	"
Isopropylbenzene (98-82-8)	**184,000**		20,000	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		20,000	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		20,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		20,000	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		20,000	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		50,100	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		50,100	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-04 **Station ID: TK-M13**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.998 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Butane, 2-methyl- (000078-78-4)	**350,000**		2.03	2000	05/18/09	05/18/09
Pentane (109-66-0)	**330,000**		2.24	"	"	"
Pentane, 2-methyl- (107-83-5)	**430,000**		3.15	"	"	"
Hexane (110-54-3)	**450,000**		3.79	"	"	"
Hexane, 3-methyl- (589-34-4)	**310,000**		5.64	"	"	"
Heptane (142-82-5)	**500,000**		6.17	"	"	"
Heptane, 2-methyl- (592-27-8)	**270,000**		7.46	"	"	"
Heptane, 3-methyl- (589-81-1)	**290,000**		7.61	"	"	"
Octane (111-65-9)	**1,500,000**		8.06	"	"	"
Heptane, 2,5-dimethyl- (2216-30-0)	**300,000**		8.66	"	"	"
Cyclohexane, ethyl- (1678-91-7)	**450,000**		8.75	"	"	"
C9H20 isomer (NA)	**730,000**		9.10	"	"	"
Octane, 3-methyl- (002216-33-3)	**500,000**		9.21	"	"	"
Nonane (111-84-2)	**1,100,000**		9.62	"	"	"
C9H18 isomer (NA)	**420,000**		10.19	"	"	"
C9H12 isomer (01) (NA)	**460,000**		10.82	"	"	"
C9H12 isomer (02) (NA)	**350,000**		10.90	"	"	"
Decane (124-18-5)	**530,000**		10.95	"	"	"
C9H12 isomer (03) (NA)	**440,000**		11.27	"	"	"
Undecane (1120-21-4)	**260,000**		12.13	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0905027-04RE1 **Station ID: TK-M13**

Batch: B9G1001 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.156 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown branched alkane (09) (NA)	**1,200,000**		4.51	1	05/21/09	05/26/09
C11H22 Cyclic hydrocarbon (NA)	**1,400,000**		4.68	"	"	"
Undecane, 2-methyl- (7045-71-8)	**1,000,000**		4.82	"	"	"
Dimethylundecane isomer (NA)	**940,000**		5.15	"	"	"
Unknown branched alkane (10) (NA)	**820,000**		5.46	"	"	"
Unknown branched alkane (08) (NA)	**1,600,000**		5.51	"	"	"
Tridecane (629-50-5)	**4,300,000**		5.69	"	"	"
Tetradecane (629-59-4)	**1,500,000**		6.28	"	"	"
Dimethylnaphthalene isomer (NA)	**800,000**		6.54	"	"	"
Pentadecane (629-62-9)	**1,200,000**		6.84	"	"	"
Hexadecane (544-76-3)	**770,000**		7.36	"	"	"
Heptadecane (629-78-7)	**1,500,000**		7.86	"	"	"
Octadecane (593-45-3)	**1,600,000**		8.33	"	"	"
Hexadecane, 2,6,10,14-tetra... (638-36-8)	**940,000**		8.38	"	"	"
Nonadecane (629-92-5)	**1,200,000**		8.78	"	"	"
Eicosane (112-95-8)	**1,200,000**		9.21	"	"	"
Heneicosane (629-94-7)	**840,000**		9.62	"	"	"
Docosane (629-97-0)	**890,000**		10.01	"	"	"
Tricosane (638-67-5)	**870,000**		10.38	"	"	"
Pentacosane (629-99-2)	**770,000**		11.09	"	"	"

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Region 6 Laboratory

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-05 **Station ID: TK-O15**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.999 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	44.2		88.5	84-117	05/18/09	05/18/09
Surr: Toluene-d8	51.6		103	79-123	"	"
Surr: 4-Bromofluorobenzene	48.2		96.4	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		250,000	10000	05/18/09	05/18/09
Chloromethane (74-87-3)	U		250,000	"	"	"
Vinyl chloride (75-01-4)	U		100,000	"	"	"
Bromomethane (74-83-9)	U		250,000	"	"	"
Chloroethane (75-00-3)	U		100,000	"	"	"
Trichlorofluoromethane (75-69-4)	U		100,000	"	"	"
1,1-Dichloroethene (75-35-4)	U		100,000	"	"	"
Carbon disulfide (75-15-0)	U		100,000	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		100,000	"	"	"
Acetone (67-64-1)	U		501,000	"	"	"
Methylene chloride (75-09-2)	U		100,000	"	"	"
Methyl acetate (79-20-9)	U		250,000	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		100,000	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		100,000	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		100,000	"	"	"
1,1-Dichloroethane (75-34-3)	U		100,000	"	"	"
2-Butanone (78-93-3)	U		250,000	"	"	"
Chloroform (67-66-3)	U		100,000	"	"	"
1,2-Dichloroethane (107-06-2)	U		100,000	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		100,000	"	"	"
Cyclohexane (110-82-7)	**23,800,000**		1,000,000	100000	"	05/18/09
Carbon tetrachloride (56-23-5)	U		100,000	10000	"	05/18/09
Benzene (71-43-2)	**15,600,000**		100,000	"	"	"
Trichloroethene (79-01-6)	U		100,000	"	"	"
Methylcyclohexane (108-87-2)	**27,800,000**		1,000,000	100000	"	05/18/09
1,2-Dichloropropane (78-87-5)	U		100,000	10000	"	05/18/09
Bromodichloromethane (75-27-4)	U		100,000	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		100,000	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		100,000	"	"	"

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-05 **Station ID: TK-O15**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Non-Aqueous Liquid Sample Weight: 0.999 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		100,000	10000	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		100,000	"	"	"
Bromoform (75-25-2)	U		100,000	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		250,000	"	"	"
Toluene (108-88-3)	**36,200,000**		1,000,000	100000	"	05/18/09
Tetrachloroethene (127-18-4)	U		100,000	10000	"	05/18/09
2-Hexanone (591-78-6)	U		250,000	"	"	"
1,2-Dibromoethane (106-93-4)	U		100,000	"	"	"
Chlorobenzene (108-90-7)	U		100,000	"	"	"
Ethylbenzene (100-41-4)	**2,900,000**		100,000	"	"	"
meta-/para-Xylene (na)	**20,800,000**		200,000	"	"	"
ortho-Xylene (95-47-6)	**6,150,000**		100,000	"	"	"
Styrene (100-42-5)	U		100,000	"	"	"
Isopropylbenzene (98-82-8)	**682,000**		100,000	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		100,000	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		100,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		100,000	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		100,000	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		250,000	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		250,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-06 **Station ID: FB**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Liquid Sample Weight: 5 g Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	49.3		98.6	84-117	05/18/09	05/18/09
Surr: Toluene-d8	47.2		94.4	79-123	"	"
Surr: 4-Bromofluorobenzene	48.5		97.0	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	05/18/09	05/18/09
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		5.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	**7.4**		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	U		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 0905027-06 **Station ID: FB**

Batch: B9F0502 Date Collected: 05/14/09
Sample Type: Liquid Sample Weight: 5 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		2.0	1	05/18/09	05/18/09
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	U		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Blank (B9F0502-BLK1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.2		50.0	98.4	84-117
Surr: Toluene-d8	45.5		50.0	91.1	79-123
Surr: 4-Bromofluorobenzene	45.9		50.0	91.8	73-132

Blank (B9F0502-BLK1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0
Methyl acetate	U		5.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
1,1,1-Trichloroethane	U		2.0

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Blank (B9F0502-BLK1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

LCS (B9F0502-BS1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.7		50.0	99.3	84-117
Surr: Toluene-d8	46.0		50.0	92.1	79-123
Surr: 4-Bromofluorobenzene	48.9		50.0	97.8	73-132

LCS (B9F0502-BS1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	28.8			50.0	57.6	50-150
Chloromethane	33.4			50.0	66.9	50-150
Vinyl chloride	47.7			50.0	95.4	70-130
Bromomethane	71.1			50.0	142	50-150
Chloroethane	44.3			50.0	88.6	70-130
Trichlorofluoromethane	47.0			50.0	94.0	70-130
1,1-Dichloroethene	49.3			50.0	98.6	70-130
Carbon disulfide	44.6			50.0	89.3	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	46.6			50.0	93.2	70-130
Acetone	25.2			50.0	50.4	50-150
Methylene chloride	48.6			50.0	97.2	70-130
Methyl acetate	44.9			50.0	89.7	70-130
trans-1,2-Dichloroethene	47.2			50.0	94.3	70-130
cis-1,2-Dichloroethene	46.8			50.0	93.5	70-130
Methyl tert-butyl ether	45.5			50.0	90.9	70-130
1,1-Dichloroethane	49.2			50.0	98.4	70-130
2-Butanone	33.6			50.0	67.2	50-150
Chloroform	48.3			50.0	96.6	70-130
1,2-Dichloroethane	48.0			50.0	96.1	70-130
1,1,1-Trichloroethane	47.4			50.0	94.8	70-130

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

LCS (B9F0502-BS1)

Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Cyclohexane	48.6			50.0	97.2	70-130
Carbon tetrachloride	47.9			50.0	95.7	70-130
Benzene	49.5			50.0	99.0	70-130
Trichloroethene	47.3			50.0	94.6	70-130
Methylcyclohexane	40.6			50.0	81.3	70-130
1,2-Dichloropropane	51.3			50.0	103	70-130
Bromodichloromethane	50.2			50.0	100	70-130
cis-1,3-Dichloropropene	47.4			50.0	94.9	70-130
trans-1,3-Dichloropropene	44.5			50.0	89.0	70-130
1,1,2-Trichloroethane	50.5			50.0	101	70-130
Dibromochloromethane	49.4			50.0	98.9	70-130
Bromoform	49.0			50.0	98.1	70-130
4-Methyl-2-pentanone	47.4			50.0	94.8	70-130
Toluene	49.4			50.0	98.8	70-130
Tetrachloroethene	48.7			50.0	97.3	70-130
2-Hexanone	39.0			50.0	77.9	70-130
1,2-Dibromoethane	49.2			50.0	98.3	70-130
Chlorobenzene	49.4			50.0	98.9	70-130
Ethylbenzene	48.9			50.0	97.9	70-130
meta-/para-Xylene	96.9			100	96.9	70-130
ortho-Xylene	48.4			50.0	96.8	70-130
Styrene	48.7			50.0	97.4	70-130
Isopropylbenzene	46.2			50.0	92.4	70-130
1,1,2,2-Tetrachloroethane	51.4			50.0	103	70-130
1,3-Dichlorobenzene	46.8			50.0	93.5	70-130
1,4-Dichlorobenzene	47.9			50.0	95.7	70-130
1,2-Dichlorobenzene	47.7			50.0	95.4	70-130
1,2-Dibromo-3-chloropropane	45.5			50.0	90.9	50-150
1,2,4-Trichlorobenzene	44.6			50.0	89.1	70-130

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B9F0502-MS1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	50.6		50.0	101	84-117
Surr: Toluene-d8	52.8		50.0	106	79-123
Surr: 4-Bromofluorobenzene	52.4		50.0	105	73-132

Matrix Spike (B9F0502-MS1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Dichlorodifluoromethane	5,460,000		500,000	5.00E6		109	50-150
Chloromethane	5,350,000		500,000	5.00E6		107	50-150
Vinyl chloride	5,270,000		200,000	5.00E6		105	70-130
Bromomethane	5,600,000		500,000	5.00E6	29,900	111	50-150
Chloroethane	4,680,000		200,000	5.00E6		93.6	70-130
Trichlorofluoromethane	4,720,000		200,000	5.00E6		94.6	70-130
1,1-Dichloroethene	5,270,000		200,000	5.00E6		106	59-172
Carbon disulfide	5,390,000		200,000	5.00E6		108	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	5,260,000		200,000	5.00E6		105	70-130
Acetone	15,600,000		999,000	5.00E6		312 #	50-150
Methylene chloride	5,360,000		200,000	5.00E6		107	70-130
Methyl acetate	4,020,000		500,000	5.00E6		80.5	70-130
trans-1,2-Dichloroethene	5,500,000		200,000	5.00E6		110	70-130
cis-1,2-Dichloroethene	5,110,000		200,000	5.00E6		102	70-130
Methyl tert-butyl ether	5,000,000		200,000	5.00E6		100	70-130
1,1-Dichloroethane	4,950,000		200,000	5.00E6		99.0	70-130
2-Butanone	4,500,000		500,000	5.00E6		90.1	50-150
Chloroform	4,980,000		200,000	5.00E6		99.7	70-130
1,2-Dichloroethane	5,090,000		200,000	5.00E6		102	70-130
1,1,1-Trichloroethane	4,620,000		200,000	5.00E6		92.6	70-130

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B9F0502-MS1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Cyclohexane	26,000,000		200,000	5.00E6	21.4E6	92.2	70-130
Carbon tetrachloride	4,470,000		200,000	5.00E6		89.4	70-130
Benzene	20,400,000		200,000	5.00E6	15.1E6	106	66-142
Trichloroethene	4,860,000		200,000	5.00E6		97.4	62-137
Methylcyclohexane	30,600,000		200,000	5.00E6	25.8E6	96.6	70-130
1,2-Dichloropropane	5,290,000		200,000	5.00E6		106	70-130
Bromodichloromethane	4,710,000		200,000	5.00E6		94.4	70-130
cis-1,3-Dichloropropene	4,790,000		200,000	5.00E6		95.8	70-130
trans-1,3-Dichloropropene	4,520,000		200,000	5.00E6		90.5	70-130
1,1,2-Trichloroethane	7,320,000		200,000	5.00E6		147 #	70-130
Dibromochloromethane	4,820,000		200,000	5.00E6		96.4	70-130
Bromoform	4,460,000		200,000	5.00E6		89.3	70-130
4-Methyl-2-pentanone	4,240,000		500,000	5.00E6		84.8	70-130
Toluene	35,700,000		200,000	5.00E6	31.0E6	94.1	59-139
Tetrachloroethene	5,030,000		200,000	5.00E6		101	70-130
2-Hexanone	4,700,000		500,000	5.00E6		94.2	70-130
1,2-Dibromoethane	5,060,000		200,000	5.00E6		101	70-130
Chlorobenzene	5,060,000		200,000	5.00E6		101	60-133
Ethylbenzene	7,980,000		200,000	5.00E6	2.86E6	102	70-130
meta-/para-Xylene	30,800,000		400,000	9.99E6	20.7E6	101	70-130
ortho-Xylene	11,200,000		200,000	5.00E6	6.05E6	103	70-130
Styrene	5,280,000		200,000	5.00E6		106	70-130
Isopropylbenzene	5,520,000		200,000	5.00E6	662,000	97.3	70-130
1,1,2,2-Tetrachloroethane	5,320,000		200,000	5.00E6		107	70-130
1,3-Dichlorobenzene	4,980,000		200,000	5.00E6		99.7	70-130
1,4-Dichlorobenzene	4,970,000		200,000	5.00E6		99.5	70-130
1,2-Dichlorobenzene	4,970,000		200,000	5.00E6		99.5	70-130
1,2-Dibromo-3-chloropropane	3,720,000		500,000	5.00E6		74.4	50-150
1,2,4-Trichlorobenzene	4,150,000		500,000	5.00E6		83.1	70-130

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B9F0502-MSD1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	44.9		50.0	89.8	84-117
Surr: Toluene-d8	48.2		50.0	96.4	79-123
Surr: 4-Bromofluorobenzene	47.8		50.0	95.6	73-132

Matrix Spike Dup (B9F0502-MSD1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	5,410,000		500,000	5.00E6		108	50-150	0.85	30
Chloromethane	5,090,000		500,000	5.00E6		102	50-150	5.05	30
Vinyl chloride	5,090,000		200,000	5.00E6		102	70-130	3.37	30
Bromomethane	7,050,000		500,000	5.00E6	29,900	141	50-150	23.0	30
Chloroethane	4,620,000		200,000	5.00E6		92.6	70-130	1.10	30
Trichlorofluoromethane	4,580,000		200,000	5.00E6		91.8	70-130	3.00	30
1,1-Dichloroethene	5,070,000		200,000	5.00E6		102	59-172	3.80	22
Carbon disulfide	5,260,000		200,000	5.00E6		105	70-130	2.36	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5,090,000		200,000	5.00E6		102	70-130	3.18	30
Acetone	15,100,000		999,000	5.00E6		302 #	50-150	3.19	30
Methylene chloride	5,140,000		200,000	5.00E6		103	70-130	4.32	30
Methyl acetate	3,830,000		500,000	5.00E6		76.6	70-130	5.02	30
trans-1,2-Dichloroethene	5,250,000		200,000	5.00E6		105	70-130	4.59	30
cis-1,2-Dichloroethene	4,960,000		200,000	5.00E6		99.3	70-130	2.94	30
Methyl tert-butyl ether	4,940,000		200,000	5.00E6		98.8	70-130	1.39	30
1,1-Dichloroethane	4,760,000		200,000	5.00E6		95.3	70-130	3.81	30
2-Butanone	4,180,000		500,000	5.00E6		83.8	50-150	7.34	30
Chloroform	4,770,000		200,000	5.00E6		95.5	70-130	4.26	30
1,2-Dichloroethane	4,970,000		200,000	5.00E6		99.5	70-130	2.36	30
1,1,1-Trichloroethane	4,510,000		200,000	5.00E6		90.3	70-130	2.47	30

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Volatiles by EPA Method 8260 - GC/MS - Quality Control

Batch: B9F0502 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B9F0502-MSD1)

Source: 0905027-01 Prepared: 5/18/2009 Analyzed: 5/18/2009

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Cyclohexane	25,800,000		200,000	5.00E6	21.4E6	87.6	70-130	0.88	30
Carbon tetrachloride	4,380,000		200,000	5.00E6		87.6	70-130	2.01	30
Benzene	20,200,000		200,000	5.00E6	15.1E6	101	66-142	1.10	21
Trichloroethene	4,730,000		200,000	5.00E6		94.8	62-137	2.71	24
Methylcyclohexane	30,300,000		200,000	5.00E6	25.8E6	89.2	70-130	1.22	30
1,2-Dichloropropane	5,140,000		200,000	5.00E6		103	70-130	2.93	30
Bromodichloromethane	4,550,000		200,000	5.00E6		91.0	70-130	3.60	30
cis-1,3-Dichloropropene	4,620,000		200,000	5.00E6		92.5	70-130	3.53	30
trans-1,3-Dichloropropene	4,420,000		200,000	5.00E6		88.6	70-130	2.12	30
1,1,2-Trichloroethane	7,170,000		200,000	5.00E6		144 #	70-130	2.08	30
Dibromochloromethane	4,660,000		200,000	5.00E6		93.4	70-130	3.25	30
Bromoform	4,460,000		200,000	5.00E6		89.2	70-130	0.09	30
4-Methyl-2-pentanone	4,090,000		500,000	5.00E6		81.8	70-130	3.55	30
Toluene	35,600,000		200,000	5.00E6	31.0E6	91.3	59-139	0.39	21
Tetrachloroethene	4,910,000		200,000	5.00E6		98.4	70-130	2.35	30
2-Hexanone	4,770,000		500,000	5.00E6		95.5	70-130	1.43	30
1,2-Dibromoethane	4,950,000		200,000	5.00E6		99.1	70-130	2.33	30
Chlorobenzene	4,950,000		200,000	5.00E6		99.1	60-133	2.17	21
Ethylbenzene	7,800,000		200,000	5.00E6	2.86E6	98.8	70-130	2.27	30
meta-/para-Xylene	30,500,000		400,000	9.99E6	20.7E6	98.0	70-130	0.92	30
ortho-Xylene	11,100,000		200,000	5.00E6	6.05E6	100	70-130	0.92	30
Styrene	5,140,000		200,000	5.00E6		103	70-130	2.78	30
Isopropylbenzene	5,360,000		200,000	5.00E6	662,000	94.1	70-130	2.95	30
1,1,2,2-Tetrachloroethane	5,280,000		200,000	5.00E6		106	70-130	0.87	30
1,3-Dichlorobenzene	4,830,000		200,000	5.00E6		96.7	70-130	3.03	30
1,4-Dichlorobenzene	4,830,000		200,000	5.00E6		96.7	70-130	2.87	30
1,2-Dichlorobenzene	4,850,000		200,000	5.00E6		97.1	70-130	2.46	30
1,2-Dibromo-3-chloropropane	3,730,000		500,000	5.00E6		74.7	50-150	0.43	30
1,2,4-Trichlorobenzene	4,370,000		500,000	5.00E6		87.4	70-130	5.00	30

Environmental Protection Agency

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ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL
CHAIN OF CUSTODY RECORD

PROJ. NO.
PROJECT NAME: Lisbon Refinery
SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA (8260B)	SVOC (8270C)	REMARKS
TK-A1	5/14/09	13:55		✓	Tank A1	4	✓	✓	
TK-B2		14:20		✓	Tank B2	4	✓	✓	
TK-C3		14:33		✓	Tank C3	4	✓	✓	
TK-M13		14:40		✓	Tank M13	4	✓	✓	
TK-O15		15:00		✓	Tank O15	4	✓	✓	
MS/MSD		13:55		✓	Matrix Spike/Matrix Spike Dup	4	✓	✓	
FB		15:10		✓	Field Blank	3	✓		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	5/15/09 11:15				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
			5/15/09 11:15	Cooler Temp = 8°C

Shipped by: Airbill Number:

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files; Green to Report; Yellow Returns with Warrant

EPA 7500-53
(11/96)

6 — 07841

Environmental Protection Agency
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Notes and Definitions

The units for surrogates on VOA solid samples are reported in µg/L instead of the expected µg/Kg for a solid sample. The difference is because the surrogate spiking procedure is a post sample preparation addition, and the units are based on the concentration of the surrogate in the diluted extract, not the solid sample.

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.