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

Final Analytical Report

Site Name ----------Oil Trust Fund

Sample Collection Date(s)-- 05/11/10

Contact---------- Rich Mayer (6PD-F)

Report Date---------- 05/18/10

Project #---------- 10REG160

Work Order(s)----------1005015

Analyses included in this report:

ABN 8270 Routine List	ABN Glycols
Metals ICP 6010B	Metals Mercury 7470A/7471A
VOA 8260 Routine List	

Report Narrative

Sample Management:

This report contains the VOA, ABN, propylene glycol, 2-butoxyethanol, and total metals data. The DRO/ORO will be reported as soon as it is available. The Oil & Grease is a parameter being analyzed by the TCEQ Laboratory. The TCEQ data will be reported as soon as it is available.

Semi-volatiles:

The surrogate Terphenyl-d14 fails high in the sample. There are no associated targets.

The reporting limit (RL) was raised for Caprolactam in the sample due to a coelution. Absence or presence at the lower RL could not be verified.

There are several failures in the BS, MS and MSD. Of those only Naphthalene was found in the sample and is qualified as high biased due to failure in the MS/MSD.

Volatiles:

The surrogate BFB fails low in the 1005015-01 and the MS due to coelutions that prevent getting a correct integration. This surrogate also fails low in BLK2.

6008367

Report Narrative (cont'd)

Cyclohexane is qualified as estimated in 1005015-01 due to the RPD difference in the MS/MSD and due to CCV failure.

There are several failures in the BS, MS and MSD. Of those the following are significant:

-Bromomethane, Chloroethane and Trichlorofluoromethane fail significantly low due to methanol suppression. The RLs for these analytes were raised in the source sample to ensure that non-detects are accurate.
-Methyl acetate, 2-Butanone, Cyclohexane, and Methylcyclohexane have high or no recoveries and are present in the source. All recoveries and RPDs reported in the MS/MSD are from a x1000 dilution while results for these four analytes were taken from x10,000 or x100,000 in the source. A x10,000 MS/MSD was also performed. The recoveries and RPDs for Methyl acetate and 2-Butanone are acceptable in the x10,000 MS/MSD. The amount spiked for Cyclohexane was inadequate to properly calculate recovery and RPD. No bias was placed on source results for these three analytes. The recovery and RPD still failed for Cyclohexane in the x10,000 MSD so the source was qualified as estimated.
-Three RPDs fail. Only Cyclohexane was found in the source and is qualified as estimated.
-Some analytes are qualified as estimated in the MS/MSD because the values reported are outside the calibration range.

METALS ICP: Batch B0E1402:

BLK1: Calcium and copper are present in the blank above the reporting level; however there is no impact on the sample results for these two elements.

MS1/MSD1: Aluminum recovery is high; the results are qualified and may be biased high

SRM1: Calcium recovery is high; the result is qualified and may be biased high. Potassium and sodium results are less than the reporting limit and can not be reliably calculated.

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: Oil Trust Fund Project Number: 10REG160

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

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
BOASS-051110	1005015-01	Phasic	5/11/10 12:45	05/13/10 08:40

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1403 Date Collected: 05/11/10
Sample Type: Phasic Sample Volume: 5 ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	53.0		106	84-117	05/14/10	05/15/10
Surr: Toluene-d8	48.7		97.4	79-123	"	"
Surr: 4-Bromofluorobenzene	29.1		58.2 #	73-132	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5,000	1000	05/14/10	05/15/10
Chloromethane (74-87-3)	U		5,000	"	"	"
Vinyl chloride (75-01-4)	U		2,000	"	"	"
Bromomethane (74-83-9)	U		25,000	"	"	"
Chloroethane (75-00-3)	U		12,000	"	"	"
Trichlorofluoromethane (75-69-4)	U		16,000	"	"	"
1,1-Dichloroethene (75-35-4)	U		2,000	"	"	"
Carbon disulfide (75-15-0)	U		2,000	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2,000	"	"	"
Acetone (67-64-1)	**90,500**		10,000	"	"	"
Methylene chloride (75-09-2)	U		2,000	"	"	"
Methyl acetate (79-20-9)	**27,500**		20,000	10000	"	05/14/10
trans-1,2-Dichloroethene (156-60-5)	U		2,000	1000	"	05/15/10
cis-1,2-Dichloroethene (156-59-2)	U		2,000	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2,000	"	"	"
1,1-Dichloroethane (75-34-3)	U		2,000	"	"	"
2-Butanone (78-93-3)	**829,000**		50,000	10000	"	05/14/10
Chloroform (67-66-3)	U		2,000	1000	"	05/15/10
1,2-Dichloroethane (107-06-2)	U		2,000	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2,000	"	"	"
Cyclohexane (110-82-7)	**754,000**	**J**	20,000	10000	"	05/14/10
Carbon tetrachloride (56-23-5)	U		2,000	1000	"	05/15/10
Benzene (71-43-2)	U		2,000	"	"	"
Trichloroethene (79-01-6)	U		2,000	"	"	"
Methylcyclohexane (108-87-2)	**2,410,000**		200,000	100000	"	05/14/10
1,2-Dichloropropane (78-87-5)	U		2,000	1000	"	05/15/10
Bromodichloromethane (75-27-4)	U		2,000	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		2,000	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U		2,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1403 Date Collected: 05/11/10
Sample Type: Phasic Sample Volume: 5 ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
1,1,2-Trichloroethane (79-00-5)	U		2,000	1000	05/14/10	05/15/10
Dibromochloromethane (124-48-1)	U		2,000	"	"	"
Bromoform (75-25-2)	U		2,000	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5,000	"	"	"
Toluene (108-88-3)	U		2,000	"	"	"
Tetrachloroethene (127-18-4)	U		2,000	"	"	"
2-Hexanone (591-78-6)	U		5,000	"	"	"
1,2-Dibromoethane (106-93-4)	U		2,000	"	"	"
Chlorobenzene (108-90-7)	U		2,000	"	"	"
Ethylbenzene (100-41-4)	**3,820**		2,000	"	"	"
meta-/para-Xylene (na)	**30,600**		4,000	"	"	"
ortho-Xylene (95-47-6)	U		2,000	"	"	"
Styrene (100-42-5)	U		2,000	"	"	"
Isopropylbenzene (98-82-8)	**17,800**		2,000	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2,000	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2,000	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2,000	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2,000	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5,000	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5,000	"	"	"

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Volatiles by EPA Method 8260 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1403 Date Collected: 05/11/10
Sample Type: Phasic Sample Volume: 5 ml Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/l	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexane (110-54-3)	**5,000,000**		2.48	1000	05/14/10	05/15/10
Heptane (142-82-5)	**5,000,000**		4.95	"	"	"
cis-1,3-Dimethylcyclohexane (638-04-0)	**2,700,000**		6.85	"	"	"
Octane (111-65-9)	**3,900,000**		7.22	"	"	"
Ethylcyclohexane (1678-91-7)	**1,600,000**		7.96	"	"	"
Nonane (111-84-2)	**2,600,000**		8.99	"	"	"
Propylcyclohexane (1678-92-8)	**1,500,000**		9.59	"	"	"
Decane (124-18-5)	**2,000,000**		10.46	"	"	"
Undecane (1120-21-4)	**2,300,000**		11.76	"	"	"
Dodecane (112-40-3)	**1,600,000**		12.94	"	"	"

Total # of TICs: 11

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: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1304 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.109 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	1,570,000		114	10-153	05/13/10	05/13/10
Surr: Phenol-d5	1,680,000		122	16-138	"	"
Surr: 2-Chlorophenol-d4	1,600,000		116	16-135	"	"
Surr: 1,2-Dichlorobenzene-d4	1,100,000		120	28-127	"	"
Surr: Nitrobenzene-d5	1,070,000		117	20-142	"	"
Surr: 2-Fluorobiphenyl	977,000		107	40-129	"	"
Surr: 2,4,6-Tribromophenol	1,750,000		127	10-151	"	"
Surr: Terphenyl-d14	1,270,000		139 #	29-129	"	"

Targets

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		36,700	1	05/13/10	05/13/10
Acenaphthylene (208-96-8)	U		36,700	"	"	"
Acetophenone (98-86-2)	U		91,700	"	"	"
Anthracene (120-12-7)	U		36,700	"	"	"
Atrazine (1912-24-9)	U		91,700	"	"	"
Benzaldehyde (100-52-7)	U		91,700	"	"	"
Benzoic acid (65-85-0)	U		183,000	"	"	"
Benzo (a) anthracene (56-55-3)	U		91,700	"	"	"
Benzo (a) pyrene (50-32-8)	U		91,700	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		91,700	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		91,700	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		91,700	"	"	"
Benzyl alcohol (100-51-6)	U		91,700	"	"	"
1,1'-Biphenyl (92-52-4)	U		91,700	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		91,700	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		91,700	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		91,700	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		91,700	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		91,700	"	"	"
Butyl benzyl phthalate (85-68-7)	U		91,700	"	"	"
Carbazole (86-74-8)	U		91,700	"	"	"
Caprolactam (105-60-2)	U	RL	1,010,000	"	"	"
4-Chloroaniline (106-47-8)	U		91,700	"	"	"
2-Chloronaphthalene (91-58-7)	U		91,700	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1304 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.109 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		91,700	1	05/13/10	05/13/10
4-Chlorophenyl phenyl ether (7005-72-3)	U		91,700	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		91,700	"	"	"
Chrysene (218-01-9)	U		91,700	"	"	"
Dibenzofuran (132-64-9)	U		91,700	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		91,700	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		91,700	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		91,700	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		91,700	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U		91,700	"	"	"
2,4-Dichlorophenol (120-83-2)	U		91,700	"	"	"
Diethyl phthalate (84-66-2)	U		91,700	"	"	"
2,4-Dimethylphenol (105-67-9)	U		91,700	"	"	"
Dimethyl phthalate (131-11-3)	U		91,700	"	"	"
2,4-Dinitrophenol (51-28-5)	U		367,000	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		91,700	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		91,700	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		367,000	"	"	"
Di-n-butyl phthalate (84-74-2)	U		91,700	"	"	"
Di-n-octyl phthalate (117-84-0)	U		91,700	"	"	"
Fluoranthene (206-44-0)	U		36,700	"	"	"
Fluorene (86-73-7)	**108,000**		36,700	"	"	"
Hexachlorobenzene (118-74-1)	U		91,700	"	"	"
Hexachlorobutadiene (87-68-3)	U		91,700	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		91,700	"	"	"
Hexachloroethane (67-72-1)	U		91,700	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		91,700	"	"	"
Isophorone (78-59-1)	U		91,700	"	"	"
2-Methylnaphthalene (91-57-6)	**655,000**		36,700	"	"	"
2-Methylphenol (95-48-7)	U		91,700	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		91,700	"	"	"
Naphthalene (91-20-3)	**75,400**	**K**	36,700	"	"	"
2-Nitroaniline (88-74-4)	U		147,000	"	"	"
3-Nitroaniline (99-09-2)	U		147,000	"	"	"
4-Nitroaniline (100-01-6)	U		147,000	"	"	"
Nitrobenzene (98-95-3)	U		91,700	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1304 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.109 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		91,700	1	05/13/10	05/13/10
4-Nitrophenol (100-02-7)	U		239,000	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		91,700	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		91,700	"	"	"
Pentachlorophenol (87-86-5)	U		91,700	"	"	"
Phenanthrene (85-01-8)	**275,000**		36,700	"	"	"
Phenol (108-95-2)	U		91,700	"	"	"
Pyrene (129-00-0)	U		36,700	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		91,700	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		91,700	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		91,700	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1304 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.109 g Sample Qualifiers:

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Nonane (111-84-2)	**4,300,000**		2.83	1	05/13/10	05/13/10
Decane (124-18-5)	**6,000,000**		3.53	"	"	"
Undecane (1120-21-4)	**5,000,000**		4.21	"	"	"
Dodecane (112-40-3)	**8,900,000**		4.87	"	"	"
Tridecane (629-50-5)	**8,300,000**		5.50	"	"	"
Tetradecane (629-59-4)	**7,300,000**		6.09	"	"	"
Pentadecane (629-62-9)	**8,700,000**		6.64	"	"	"
Hexadecane (544-76-3)	**4,900,000**		7.17	"	"	"
Heptadecane (629-78-7)	**5,300,000**		7.67	"	"	"
Nonadecane (629-92-5)	**4,500,000**		8.59	"	"	"

Total # of TICs: 10

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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Metals by EPA Method 6010B - ICP

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1402 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.984 g Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**67.5**	**K**	5.1	1	05/13/10	05/14/10
Antimony (7440-36-0)	U		3.0	"	"	"
Arsenic (7440-38-2)	U		5.1	"	"	"
Barium (7440-39-3)	**23.6**		0.5	"	"	"
Beryllium (7440-41-7)	U		0.3	"	"	"
Cadmium (7440-43-9)	U		0.3	"	"	"
Calcium (7440-70-2)	**583**	**K**	7.6	"	"	"
Chromium (7440-47-3)	U		0.5	"	"	"
Cobalt (7440-48-4)	U		1.0	"	"	"
Copper (7440-50-8)	U		1.0	"	"	"
Iron (7439-89-6)	**64.2**		1.3	"	"	"
Lead (7439-92-1)	U		1.5	"	"	"
Magnesium (7439-95-4)	**1,350**		7.6	"	"	"
Manganese (7439-96-5)	**7.1**		0.3	"	"	"
Nickel (7440-02-2)	U		1.0	"	"	"
Potassium (7440-09-7)	**410**		50.8	"	"	"
Selenium (7782-49-2)	U		5.1	"	"	"
Silver (7440-22-4)	U		0.5	"	"	"
Sodium (7440-23-5)	**10,200**		25.4	"	"	"
Thallium (7440-28-0)	U		5.1	"	"	"
Vanadium (7440-62-2)	U		1.0	"	"	"
Zinc (7440-66-6)	U		1.0	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 1005015-01 **Station ID: BOASS-051110**

Batch: B0E1405 Date Collected: 05/11/10
Sample Type: Phasic Sample Weight: 0.145 g Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.04	1	05/14/10	05/14/10

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Glycols by Direct Aqueous Injection - GC/MS

Lab ID: 1005015-01RE1 **Station ID: BOASS-051110**

Batch: B0E1401 Date Collected: 05/11/10
Sample Type: Phasic Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Butoxyethanol (111-76-2)	U		20.0	10	05/14/10	05/14/10
Propylene glycol (57-55-6)	U		20.0	"	"	"

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1403-BLK1)
Prepared: 5/15/2010 Analyzed: 5/15/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	52.8		50.0	106	84-117
Surr: Toluene-d8	51.6		50.0	103	79-123
Surr: 4-Bromofluorobenzene	40.6		50.0	81.2	73-132

Blank (B0E1403-BLK1)
Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets

ANALYTE	Result µg/l	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: B0E1403 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1403-BLK1)

Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets (Continued)

ANALYTE	Result µg/l	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: B0E1403 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1403-BLK2)

Prepared: 5/15/2010 Analyzed: 5/15/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.8		50.0	99.6	84-117
Surr: Toluene-d8	50.0		50.0	100	79-123
Surr: 4-Bromofluorobenzene	36.4		50.0	72.8 #	73-132

Blank (B0E1403-BLK2)

Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets

ANALYTE	Result µg/l	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: B0E1403 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1403-BLK2)

Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets (Continued)

ANALYTE	Result µg/l	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: B0E1403 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1403-BS1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	51.8		50.0	104	84-117
Surr: Toluene-d8	55.6		50.0	111	79-123
Surr: 4-Bromofluorobenzene	45.7		50.0	91.4	73-132

LCS (B0E1403-BS1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	89.3		5.0	50.0	179 #	50-150
Chloromethane	46.8		5.0	50.0	93.7	50-150
Vinyl chloride	49.4		2.0	50.0	98.9	70-130
Bromomethane	39.3		5.0	50.0	78.6	50-150
Chloroethane	51.4		2.0	50.0	103	70-130
Trichlorofluoromethane	58.3		2.0	50.0	117	70-130
1,1-Dichloroethene	50.4		2.0	50.0	101	70-130
Carbon disulfide	49.7		2.0	50.0	99.3	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	56.4		2.0	50.0	113	70-130
Acetone	50.1		10.0	50.0	100	50-150
Methylene chloride	52.3		2.0	50.0	105	70-130
Methyl acetate	44.6		5.0	50.0	89.3	70-130
trans-1,2-Dichloroethene	45.8		2.0	50.0	91.7	70-130
cis-1,2-Dichloroethene	45.6		2.0	50.0	91.2	70-130
Methyl tert-butyl ether	46.3		2.0	50.0	92.5	70-130
1,1-Dichloroethane	49.9		2.0	50.0	99.8	70-130
2-Butanone	50.8		5.0	50.0	102	50-150
Chloroform	51.1		2.0	50.0	102	70-130
1,2-Dichloroethane	49.0		2.0	50.0	98.1	70-130
1,1,1-Trichloroethane	62.1		2.0	50.0	124	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1403-BS1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Cyclohexane	54.8		2.0	50.0	110	70-130
Carbon tetrachloride	60.8		2.0	50.0	122	70-130
Benzene	48.1		2.0	50.0	96.1	70-130
Trichloroethene	48.4		2.0	50.0	96.7	70-130
Methylcyclohexane	48.4		2.0	50.0	96.8	70-130
1,2-Dichloropropane	51.6		2.0	50.0	103	70-130
Bromodichloromethane	57.6		2.0	50.0	115	70-130
cis-1,3-Dichloropropene	44.5		2.0	50.0	88.9	70-130
trans-1,3-Dichloropropene	47.8		2.0	50.0	95.5	70-130
1,1,2-Trichloroethane	56.0		2.0	50.0	112	70-130
Dibromochloromethane	57.9		2.0	50.0	116	70-130
Bromoform	61.4		2.0	50.0	123	70-130
4-Methyl-2-pentanone	41.6		5.0	50.0	83.2	70-130
Toluene	44.1		2.0	50.0	88.3	70-130
Tetrachloroethene	46.2		2.0	50.0	92.5	70-130
2-Hexanone	37.9		5.0	50.0	75.8	70-130
1,2-Dibromoethane	47.6		2.0	50.0	95.2	70-130
Chlorobenzene	42.8		2.0	50.0	85.5	70-130
Ethylbenzene	42.6		2.0	50.0	85.2	70-130
meta-/para-Xylene	88.5		4.0	100	88.5	70-130
ortho-Xylene	48.1		2.0	50.0	96.2	70-130
Styrene	54.0		2.0	50.0	108	70-130
Isopropylbenzene	43.0		2.0	50.0	86.1	70-130
1,1,2,2-Tetrachloroethane	51.7		2.0	50.0	103	70-130
1,3-Dichlorobenzene	44.2		2.0	50.0	88.5	70-130
1,4-Dichlorobenzene	44.7		2.0	50.0	89.4	70-130
1,2-Dichlorobenzene	46.0		2.0	50.0	92.1	70-130
1,2-Dibromo-3-chloropropane	45.4		5.0	50.0	90.7	50-150
1,2,4-Trichlorobenzene	45.9		5.0	50.0	91.7	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1403-BS2)
Prepared: 5/15/2010 Analyzed: 5/15/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	50.0		50.0	100	84-117
Surr: Toluene-d8	53.8		50.0	108	79-123
Surr: 4-Bromofluorobenzene	43.9		50.0	87.9	73-132

LCS (B0E1403-BS2)
Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	63.5		5.0	50.0	127	50-150
Chloromethane	43.5		5.0	50.0	87.1	50-150
Vinyl chloride	44.7		2.0	50.0	89.4	70-130
Bromomethane	39.6		5.0	50.0	79.3	50-150
Chloroethane	47.3		2.0	50.0	94.5	70-130
Trichlorofluoromethane	44.9		2.0	50.0	89.8	70-130
1,1-Dichloroethene	46.9		2.0	50.0	93.7	70-130
Carbon disulfide	45.7		2.0	50.0	91.4	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	42.9		2.0	50.0	85.8	70-130
Acetone	56.2		10.0	50.0	112	50-150
Methylene chloride	48.5		2.0	50.0	97.0	70-130
Methyl acetate	43.9		5.0	50.0	87.7	70-130
trans-1,2-Dichloroethene	47.0		2.0	50.0	94.0	70-130
cis-1,2-Dichloroethene	46.0		2.0	50.0	92.0	70-130
Methyl tert-butyl ether	46.0		2.0	50.0	92.0	70-130
1,1-Dichloroethane	46.1		2.0	50.0	92.2	70-130
2-Butanone	47.7		5.0	50.0	95.4	50-150
Chloroform	48.6		2.0	50.0	97.2	70-130
1,2-Dichloroethane	46.8		2.0	50.0	93.7	70-130
1,1,1-Trichloroethane	56.9		2.0	50.0	114	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1403-BS2)

Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Cyclohexane	41.8		2.0	50.0	83.6	70-130
Carbon tetrachloride	56.2		2.0	50.0	112	70-130
Benzene	47.7		2.0	50.0	95.4	70-130
Trichloroethene	48.5		2.0	50.0	97.1	70-130
Methylcyclohexane	37.2		2.0	50.0	74.3	70-130
1,2-Dichloropropane	47.3		2.0	50.0	94.7	70-130
Bromodichloromethane	53.0		2.0	50.0	106	70-130
cis-1,3-Dichloropropene	45.4		2.0	50.0	90.8	70-130
trans-1,3-Dichloropropene	48.7		2.0	50.0	97.4	70-130
1,1,2-Trichloroethane	51.5		2.0	50.0	103	70-130
Dibromochloromethane	54.0		2.0	50.0	108	70-130
Bromoform	56.3		2.0	50.0	113	70-130
4-Methyl-2-pentanone	39.2		5.0	50.0	78.4	70-130
Toluene	46.4		2.0	50.0	92.8	70-130
Tetrachloroethene	47.2		2.0	50.0	94.5	70-130
2-Hexanone	37.1		5.0	50.0	74.2	70-130
1,2-Dibromoethane	49.3		2.0	50.0	98.7	70-130
Chlorobenzene	45.6		2.0	50.0	91.2	70-130
Ethylbenzene	45.2		2.0	50.0	90.5	70-130
meta-/para-Xylene	93.3		4.0	100	93.3	70-130
ortho-Xylene	46.4		2.0	50.0	92.9	70-130
Styrene	51.1		2.0	50.0	102	70-130
Isopropylbenzene	46.2		2.0	50.0	92.4	70-130
1,1,2,2-Tetrachloroethane	48.4		2.0	50.0	96.8	70-130
1,3-Dichlorobenzene	47.6		2.0	50.0	95.2	70-130
1,4-Dichlorobenzene	48.7		2.0	50.0	97.4	70-130
1,2-Dichlorobenzene	48.9		2.0	50.0	97.7	70-130
1,2-Dibromo-3-chloropropane	47.7		5.0	50.0	95.3	50-150
1,2,4-Trichlorobenzene	49.9		5.0	50.0	99.9	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B0E1403-MS1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	51.2		50.0	102	84-117
Surr: Toluene-d8	44.2		50.0	88.3	79-123
Surr: 4-Bromofluorobenzene	30.2		50.0	60.5 #	73-132

Matrix Spike (B0E1403-MS1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Dichlorodifluoromethane	55,300		5,000	50,000		111	50-150
Chloromethane	35,300		5,000	50,000		70.5	50-150
Vinyl chloride	34,400		2,000	50,000		68.7 #	70-130
Bromomethane	9,710		5,000	50,000		19.4 #	50-150
Chloroethane	8,280		6,000	50,000		16.6 #	70-130
Trichlorofluoromethane	6,400		8,000	50,000		12.8 #	70-130
1,1-Dichloroethene	36,100		2,000	50,000		72.3	59-172
Carbon disulfide	35,900		2,000	50,000		71.9	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	39,200		2,000	50,000		78.5	70-130
Acetone	124,000		10,000	50,000	90,500	66.4	50-150
Methylene chloride	43,800		2,000	50,000		87.6	70-130
Methyl acetate	196,000		5,000	50,000	27,500	336 #	70-130
trans-1,2-Dichloroethene	37,400		2,000	50,000		74.9	70-130
cis-1,2-Dichloroethene	41,300		2,000	50,000		82.5	70-130
Methyl tert-butyl ether	44,200		2,000	50,000		88.5	70-130
1,1-Dichloroethane	39,800		2,000	50,000		79.6	70-130
2-Butanone	318,000	J	5,000	50,000	829,000	NR #	50-150
Chloroform	46,000		2,000	50,000		91.9	70-130
1,2-Dichloroethane	46,400		2,000	50,000		92.9	70-130
1,1,1-Trichloroethane	40,200		2,000	50,000		80.5	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B0E1403-MS1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Cyclohexane	4,000,000	J	2,000	50,000	754,000	NR	#	70-130
Carbon tetrachloride	40,800		2,000	50,000		81.7		70-130
Benzene	39,700		2,000	50,000		79.4		66-142
Trichloroethene	39,400		2,000	50,000		78.7		62-137
Methylcyclohexane	4,000,000	J	2,000	50,000	2.41E6	NR	#	70-130
1,2-Dichloropropane	42,500		2,000	50,000		84.9		70-130
Bromodichloromethane	42,500		2,000	50,000		85.0		70-130
cis-1,3-Dichloropropene	45,100		2,000	50,000		90.1		70-130
trans-1,3-Dichloropropene	47,800		2,000	50,000		95.7		70-130
1,1,2-Trichloroethane	33,300		2,000	50,000		66.6	#	70-130
Dibromochloromethane	47,900		2,000	50,000		95.9		70-130
Bromoform	45,900		2,000	50,000		91.7		70-130
4-Methyl-2-pentanone	205,000	J	5,000	50,000		410	#	70-130
Toluene	39,600		2,000	50,000		79.2		59-139
Tetrachloroethene	39,400		2,000	50,000		78.8		70-130
2-Hexanone	376,000	J	5,000	50,000		753	#	70-130
1,2-Dibromoethane	44,800		2,000	50,000		89.7		70-130
Chlorobenzene	40,200		2,000	50,000		80.4		60-133
Ethylbenzene	44,300		2,000	50,000	3,820	80.9		70-130
meta-/para-Xylene	110,000		4,000	100,000	30,600	79.9		70-130
ortho-Xylene	52,300		2,000	50,000		105		70-130
Styrene	45,800		2,000	50,000		91.7		70-130
Isopropylbenzene	59,500		2,000	50,000	17,800	83.6		70-130
1,1,2,2-Tetrachloroethane	30,600		2,000	50,000		61.2	#	70-130
1,3-Dichlorobenzene	42,800		2,000	50,000		85.5		70-130
1,4-Dichlorobenzene	42,300		2,000	50,000		84.5		70-130
1,2-Dichlorobenzene	40,300		2,000	50,000		80.6		70-130
1,2-Dibromo-3-chloropropane	39,500		5,000	50,000		79.0		50-150
1,2,4-Trichlorobenzene	27,900		5,000	50,000		55.8	#	70-130

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B0E1403-MSD1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	50.8		50.0	102	84-117
Surr: Toluene-d8	67.0		50.0	134 #	79-123
Surr: 4-Bromofluorobenzene	46.8		50.0	93.7	73-132

Matrix Spike Dup (B0E1403-MSD1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	51,700		5,000	50,000		103	50-150	6.70	30
Chloromethane	32,000		5,000	50,000		64.0	50-150	9.72	30
Vinyl chloride	30,900		2,000	50,000		61.7 #	70-130	10.8	30
Bromomethane	9,140		5,000	50,000		18.3 #	50-150	6.05	30
Chloroethane	5,800		6,000	50,000		11.6 #	70-130	35.2 #	30
Trichlorofluoromethane	5,100		8,000	50,000		10.2 #	70-130	22.6	30
1,1-Dichloroethene	34,000		2,000	50,000		68.0	59-172	6.10	22
Carbon disulfide	32,600		2,000	50,000		65.1 #	70-130	9.84	30
1,1,2-Trichloro-1,2,2-trifluoroethane	39,400		2,000	50,000		78.9	70-130	0.51	30
Acetone	129,000		10,000	50,000	90,500	76.2	50-150	3.88	30
Methylene chloride	43,100		2,000	50,000		86.2	70-130	1.63	30
Methyl acetate	263,000	J	5,000	50,000	27,500	472 #	70-130	29.5	30
trans-1,2-Dichloroethene	34,800		2,000	50,000		69.6 #	70-130	7.28	30
cis-1,2-Dichloroethene	39,500		2,000	50,000		79.1	70-130	4.26	30
Methyl tert-butyl ether	43,800		2,000	50,000		87.5	70-130	1.07	30
1,1-Dichloroethane	37,200		2,000	50,000		74.4	70-130	6.80	30
2-Butanone	346,000	J	5,000	50,000	829,000	NR #	50-150	8.58	30
Chloroform	43,600		2,000	50,000		87.1	70-130	5.41	30
1,2-Dichloroethane	45,800		2,000	50,000		91.6	70-130	1.39	30
1,1,1-Trichloroethane	34,900		2,000	50,000		69.9 #	70-130	14.2	30

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

Batch: B0E1403 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B0E1403-MSD1)

Source: 1005015-01 Prepared: 5/15/2010 Analyzed: 5/15/2010

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Cyclohexane	710,000	J	2,000	50,000	754,000	NR	#	70-130	140	#	30
Carbon tetrachloride	35,200		2,000	50,000		70.5		70-130	14.7		30
Benzene	35,700		2,000	50,000		71.3		66-142	10.7		21
Trichloroethene	36,600		2,000	50,000		73.1		62-137	7.40		24
Methylcyclohexane	3,770,000	J	2,000	50,000	2.41E6	NR	#	70-130	6.01		30
1,2-Dichloropropane	40,100		2,000	50,000		80.2		70-130	5.74		30
Bromodichloromethane	40,400		2,000	50,000		80.8		70-130	5.02		30
cis-1,3-Dichloropropene	42,000		2,000	50,000		83.9		70-130	7.12		30
trans-1,3-Dichloropropene	44,200		2,000	50,000		88.3		70-130	8.00		30
1,1,2-Trichloroethane	54,000		2,000	50,000		108		70-130	47.4	#	30
Dibromochloromethane	44,800		2,000	50,000		89.6		70-130	6.75		30
Bromoform	43,900		2,000	50,000		87.8		70-130	4.39		30
4-Methyl-2-pentanone	195,000		5,000	50,000		389	#	70-130	5.12		30
Toluene	37,600		2,000	50,000		75.2		59-139	5.18		21
Tetrachloroethene	38,100		2,000	50,000		76.2		70-130	3.33		30
2-Hexanone	367,000	J	5,000	50,000		734	#	70-130	2.46		30
1,2-Dibromoethane	43,300		2,000	50,000		86.6		70-130	3.47		30
Chlorobenzene	38,800		2,000	50,000		77.5		60-133	3.67		21
Ethylbenzene	42,100		2,000	50,000	3,820	76.5		70-130	5.12		30
meta-/para-Xylene	104,000		4,000	100,000	30,600	73.4		70-130	6.05		30
ortho-Xylene	50,600		2,000	50,000		101		70-130	3.27		30
Styrene	44,000		2,000	50,000		87.9		70-130	4.23		30
Isopropylbenzene	58,000		2,000	50,000	17,800	80.5		70-130	2.64		30
1,1,2,2-Tetrachloroethane	36,600		2,000	50,000		73.2		70-130	17.8		30
1,3-Dichlorobenzene	41,600		2,000	50,000		83.2		70-130	2.77		30
1,4-Dichlorobenzene	41,300		2,000	50,000		82.6		70-130	2.30		30
1,2-Dichlorobenzene	38,600		2,000	50,000		77.3		70-130	4.13		30
1,2-Dibromo-3-chloropropane	39,900		5,000	50,000		79.7		50-150	0.91		30
1,2,4-Trichlorobenzene	26,300		5,000	50,000		52.6	#	70-130	5.98		30

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1304-BLK1)
Prepared: 5/13/2010 Analyzed: 5/13/2010

Surrogates

ANALYTE	Result µg/kg	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,460,000		1.44E6	101	10-153
Surr: Phenol-d5	1,620,000		1.44E6	113	16-138
Surr: 2-Chlorophenol-d4	1,570,000		1.44E6	109	16-135
Surr: 1,2-Dichlorobenzene-d4	1,080,000		962,000	113	28-127
Surr: Nitrobenzene-d5	1,030,000		962,000	107	20-142
Surr: 2-Fluorobiphenyl	1,100,000		962,000	114	40-129
Surr: 2,4,6-Tribromophenol	1,540,000		1.44E6	107	10-151
Surr: Terphenyl-d14	1,220,000		962,000	127	29-129

Blank (B0E1304-BLK1)
Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit
Acenaphthene	U		38,500
Acenaphthylene	U		38,500
Acetophenone	U		96,200
Anthracene	U		38,500
Atrazine	U		96,200
Benzaldehyde	U		96,200
Benzoic acid	U		192,000
Benzo (a) anthracene	U		96,200
Benzo (a) pyrene	U		96,200
Benzo (b) fluoranthene	U		96,200
Benzo (g,h,i) perylene	U		96,200
Benzo (k) fluoranthene	U		96,200
Benzyl alcohol	U		96,200
1,1'-Biphenyl	U		96,200
Bis(2-chloroethoxy)methane	U		96,200
Bis(2-chloroethyl)ether	U		96,200

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1304-BLK1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit
Bis(2-chloroisopropyl)ether	U		96,200
Bis(2-ethylhexyl)phthalate	U		96,200
4-Bromophenyl phenyl ether	U		96,200
Butyl benzyl phthalate	U		96,200
Carbazole	U		96,200
Caprolactam	U		96,200
4-Chloroaniline	U		96,200
2-Chloronaphthalene	U		96,200
2-Chlorophenol	U		96,200
4-Chlorophenyl phenyl ether	U		96,200
4-Chloro-3-methylphenol	U		96,200
Chrysene	U		96,200
Dibenzofuran	U		96,200
Dibenz (a,h) anthracene	U		96,200
1,2-Dichlorobenzene	U		96,200
1,3-Dichlorobenzene	U		96,200
1,4-Dichlorobenzene	U		96,200
3,3´-Dichlorobenzidine	U		96,200
2,4-Dichlorophenol	U		96,200
Diethyl phthalate	U		96,200
2,4-Dimethylphenol	U		96,200
Dimethyl phthalate	U		96,200
2,4-Dinitrophenol	U		385,000
2,4-Dinitrotoluene	U		96,200
2,6-Dinitrotoluene	U		96,200
4,6-Dinitro-2-methylphenol	U		385,000
Di-n-butyl phthalate	U		96,200
Di-n-octyl phthalate	U		96,200
Fluoranthene	U		38,500
Fluorene	U		38,500

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Blank (B0E1304-BLK1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit
Hexachlorobenzene	U		96,200
Hexachlorobutadiene	U		96,200
Hexachlorocyclopentadiene	U		96,200
Hexachloroethane	U		96,200
Indeno (1,2,3-cd) pyrene	U		96,200
Isophorone	U		96,200
2-Methylnaphthalene	U		38,500
2-Methylphenol	U		96,200
3 &/or 4-Methylphenol	U		96,200
Naphthalene	U		38,500
2-Nitroaniline	U		154,000
3-Nitroaniline	U		154,000
4-Nitroaniline	U		154,000
Nitrobenzene	U		96,200
2-Nitrophenol	U		96,200
4-Nitrophenol	U		250,000
N-Nitrosodiphenylamine	U		96,200
N-Nitrosodi-n-propylamine	U		96,200
Pentachlorophenol	U		96,200
Phenanthrene	U		38,500
Phenol	U		96,200
Pyrene	U		38,500
1,2,4-Trichlorobenzene	U		96,200
2,4,5-Trichlorophenol	U		96,200
2,4,6-Trichlorophenol	U		96,200

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1304-BS1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Surrogates

ANALYTE	Result µg/kg	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,440,000		1.36E6	105	10-153
Surr: Phenol-d5	1,550,000		1.36E6	114	16-138
Surr: 2-Chlorophenol-d4	1,510,000		1.36E6	111	16-135
Surr: 1,2-Dichlorobenzene-d4	1,040,000		909,000	114	28-127
Surr: Nitrobenzene-d5	1,000,000		909,000	110	20-142
Surr: 2-Fluorobiphenyl	1,030,000		909,000	113	40-129
Surr: 2,4,6-Tribromophenol	1,450,000		1.36E6	106	10-151
Surr: Terphenyl-d14	1,030,000		909,000	113	29-129

LCS (B0E1304-BS1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	432,000		36,400	455,000	95.0	70-130
Acenaphthylene	448,000		36,400	455,000	98.6	70-130
Acetophenone	429,000		90,900	455,000	94.4	70-130
Anthracene	431,000		36,400	455,000	94.8	70-130
Atrazine	418,000		90,900	455,000	91.9	70-130
Benzaldehyde	419,000		90,900	455,000	92.2	70-130
Benzoic acid	398,000		182,000	455,000	87.5	70-130
Benzo (a) anthracene	458,000		90,900	455,000	101	70-130
Benzo (a) pyrene	427,000		90,900	455,000	94.0	70-130
Benzo (b) fluoranthene	419,000		90,900	455,000	92.2	70-130
Benzo (g,h,i) perylene	429,000		90,900	455,000	94.5	70-130
Benzo (k) fluoranthene	419,000		90,900	455,000	92.2	70-130
Benzyl alcohol	495,000		90,900	455,000	109	70-130
1,1'-Biphenyl	383,000		90,900	455,000	84.3	70-130
Bis(2-chloroethoxy)methane	461,000		90,900	455,000	101	70-130
Bis(2-chloroethyl)ether	444,000		90,900	455,000	97.7	70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1304-BS1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Bis(2-chloroisopropyl)ether	474,000		90,900	455,000	104	70-130
Bis(2-ethylhexyl)phthalate	386,000		90,900	455,000	84.8	70-130
4-Bromophenyl phenyl ether	428,000		90,900	455,000	94.2	70-130
Butyl benzyl phthalate	441,000		90,900	455,000	97.0	70-130
Carbazole	463,000		90,900	455,000	102	70-130
Caprolactam	437,000		90,900	455,000	96.2	70-130
4-Chloroaniline	498,000		90,900	455,000	110	70-130
2-Chloronaphthalene	424,000		90,900	455,000	93.3	70-130
2-Chlorophenol	475,000		90,900	455,000	105	70-130
4-Chlorophenyl phenyl ether	433,000		90,900	455,000	95.2	70-130
4-Chloro-3-methylphenol	496,000		90,900	455,000	109	70-130
Chrysene	450,000		90,900	455,000	99.0	70-130
Dibenzofuran	429,000		90,900	455,000	94.3	70-130
Dibenz (a,h) anthracene	420,000		90,900	455,000	92.5	70-130
1,2-Dichlorobenzene	469,000		90,900	455,000	103	70-130
1,3-Dichlorobenzene	450,000		90,900	455,000	99.0	70-130
1,4-Dichlorobenzene	453,000		90,900	455,000	99.7	70-130
3,3´-Dichlorobenzidine	673,000		90,900	455,000	148	# 70-130
2,4-Dichlorophenol	456,000		90,900	455,000	100	70-130
Diethyl phthalate	447,000		90,900	455,000	98.3	70-130
2,4-Dimethylphenol	499,000		90,900	455,000	110	70-130
Dimethyl phthalate	452,000		90,900	455,000	99.4	70-130
2,4-Dinitrophenol	381,000		364,000	455,000	83.8	70-130
2,4-Dinitrotoluene	465,000		90,900	455,000	102	70-130
2,6-Dinitrotoluene	452,000		90,900	455,000	99.5	70-130
4,6-Dinitro-2-methylphenol	395,000		364,000	455,000	86.8	70-130
Di-n-butyl phthalate	450,000		90,900	455,000	98.9	70-130
Di-n-octyl phthalate	400,000		90,900	455,000	88.1	70-130
Fluoranthene	426,000		36,400	455,000	93.7	70-130
Fluorene	427,000		36,400	455,000	93.8	70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

LCS (B0E1304-BS1)

Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Hexachlorobenzene	416,000		90,900	455,000	91.6	70-130
Hexachlorobutadiene	454,000		90,900	455,000	99.9	70-130
Hexachlorocyclopentadiene	362,000		90,900	455,000	79.7	70-130
Hexachloroethane	483,000		90,900	455,000	106	70-130
Indeno (1,2,3-cd) pyrene	430,000		90,900	455,000	94.6	70-130
Isophorone	465,000		90,900	455,000	102	70-130
2-Methylnaphthalene	445,000		36,400	455,000	98.0	70-130
2-Methylphenol	471,000		90,900	455,000	104	70-130
3 &/or 4-Methylphenol	487,000		90,900	455,000	107	70-130
Naphthalene	451,000		36,400	455,000	99.2	70-130
2-Nitroaniline	479,000		145,000	455,000	105	70-130
3-Nitroaniline	515,000		145,000	455,000	113	70-130
4-Nitroaniline	521,000		145,000	455,000	115	70-130
Nitrobenzene	466,000		90,900	455,000	103	70-130
2-Nitrophenol	459,000		90,900	455,000	101	70-130
4-Nitrophenol	498,000		236,000	455,000	109	70-130
N-Nitrosodiphenylamine	429,000		90,900	455,000	94.3	70-130
N-Nitrosodi-n-propylamine	491,000		90,900	455,000	108	70-130
Pentachlorophenol	424,000		90,900	455,000	93.4	70-130
Phenanthrene	436,000		36,400	455,000	96.0	70-130
Phenol	470,000		90,900	455,000	103	70-130
Pyrene	450,000		36,400	455,000	98.9	70-130
1,2,4-Trichlorobenzene	454,000		90,900	455,000	100	70-130
2,4,5-Trichlorophenol	449,000		90,900	455,000	98.8	70-130
2,4,6-Trichlorophenol	458,000		90,900	455,000	101	70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B0E1304-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Surrogates

ANALYTE	Result µg/kg	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,330,000		1.39E6	95.6	10-153
Surr: Phenol-d5	1,520,000		1.39E6	109	16-138
Surr: 2-Chlorophenol-d4	1,430,000		1.39E6	103	16-135
Surr: 1,2-Dichlorobenzene-d4	1,020,000		926,000	111	28-127
Surr: Nitrobenzene-d5	920,000		926,000	99.3	20-142
Surr: 2-Fluorobiphenyl	907,000		926,000	98.0	40-129
Surr: 2,4,6-Tribromophenol	1,680,000		1.39E6	121	10-151
Surr: Terphenyl-d14	1,150,000		926,000	124	29-129

Matrix Spike (B0E1304-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Acenaphthene	393,000		37,000	463,000		84.9	70-130
Acenaphthylene	406,000		37,000	463,000		87.6	70-130
Acetophenone	757,000		92,600	463,000		164 #	70-130
Anthracene	436,000		37,000	463,000	6,420	92.7	70-130
Atrazine	474,000		92,600	463,000		102	70-130
Benzaldehyde	504,000		92,600	463,000		109	70-130
Benzoic acid	337,000		185,000	463,000		72.8	70-130
Benzo (a) anthracene	510,000		92,600	463,000	17,200	107	70-130
Benzo (a) pyrene	461,000		92,600	463,000		99.6	70-130
Benzo (b) fluoranthene	464,000		92,600	463,000		100	70-130
Benzo (g,h,i) perylene	360,000		92,600	463,000		77.8	70-130
Benzo (k) fluoranthene	471,000		92,600	463,000		102	70-130
Benzyl alcohol	530,000		92,600	463,000		114	70-130
1,1'-Biphenyl	536,000		92,600	463,000	73,900	99.7	70-130
Bis(2-chloroethoxy)methane	463,000		92,600	463,000		99.9	70-130
Bis(2-chloroethyl)ether	480,000		92,600	463,000		104	70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B0E1304-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Bis(2-chloroisopropyl)ether	449,000		92,600	463,000		96.9		70-130
Bis(2-ethylhexyl)phthalate	427,000		92,600	463,000		92.2		70-130
4-Bromophenyl phenyl ether	473,000		92,600	463,000		102		70-130
Butyl benzyl phthalate	472,000		92,600	463,000		102		70-130
Carbazole	521,000		92,600	463,000		113		70-130
Caprolactam	935,000		92,600	463,000		202	#	70-130
4-Chloroaniline	498,000		92,600	463,000		107		70-130
2-Chloronaphthalene	504,000		92,600	463,000		109		70-130
2-Chlorophenol	518,000		92,600	463,000		112		70-130
4-Chlorophenyl phenyl ether	416,000		92,600	463,000		89.9		70-130
4-Chloro-3-methylphenol	434,000		92,600	463,000		93.8		70-130
Chrysene	523,000		92,600	463,000	61,500	99.8		70-130
Dibenzofuran	358,000		92,600	463,000		77.4		70-130
Dibenz (a,h) anthracene	377,000		92,600	463,000		81.5		70-130
1,2-Dichlorobenzene	443,000		92,600	463,000		95.8		70-130
1,3-Dichlorobenzene	445,000		92,600	463,000		96.2		70-130
1,4-Dichlorobenzene	476,000		92,600	463,000		103		70-130
3,3´-Dichlorobenzidine	819,000		92,600	463,000		177	#	70-130
2,4-Dichlorophenol	397,000		92,600	463,000		85.7		70-130
Diethyl phthalate	450,000		92,600	463,000		97.2		70-130
2,4-Dimethylphenol	444,000		92,600	463,000		96.0		70-130
Dimethyl phthalate	495,000		92,600	463,000		107		70-130
2,4-Dinitrophenol	340,000		370,000	463,000		73.4		70-130
2,4-Dinitrotoluene	496,000		92,600	463,000		107		70-130
2,6-Dinitrotoluene	407,000		92,600	463,000		87.8		70-130
4,6-Dinitro-2-methylphenol	305,000		370,000	463,000		65.8	#	70-130
Di-n-butyl phthalate	464,000		92,600	463,000		100		70-130
Di-n-octyl phthalate	434,000		92,600	463,000		93.8		70-130
Fluoranthene	424,000		37,000	463,000		91.6		70-130
Fluorene	490,000		37,000	463,000	108,000	82.7		70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike (B0E1304-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Hexachlorobenzene	450,000		92,600	463,000		97.2	70-130
Hexachlorobutadiene	379,000		92,600	463,000		81.9	70-130
Hexachlorocyclopentadiene	322,000		92,600	463,000		69.6 #	70-130
Hexachloroethane	609,000		92,600	463,000		131 #	70-130
Indeno (1,2,3-cd) pyrene	380,000		92,600	463,000		82.0	70-130
Isophorone	378,000		92,600	463,000		81.7	70-130
2-Methylnaphthalene	1,070,000		37,000	463,000	655,000	89.7	70-130
2-Methylphenol	488,000		92,600	463,000		105	70-130
3 &/or 4-Methylphenol	468,000		92,600	463,000		101	70-130
Naphthalene	790,000		37,000	463,000	75,400	154 #	70-130
2-Nitroaniline	435,000		148,000	463,000		94.0	70-130
3-Nitroaniline	866,000		148,000	463,000		187 #	70-130
4-Nitroaniline	493,000		148,000	463,000		106	70-130
Nitrobenzene	441,000		92,600	463,000		95.2	70-130
2-Nitrophenol	459,000		92,600	463,000		99.0	70-130
4-Nitrophenol	359,000		241,000	463,000		77.6	70-130
N-Nitrosodiphenylamine	499,000		92,600	463,000		108	70-130
N-Nitrosodi-n-propylamine	484,000		92,600	463,000		104	70-130
Pentachlorophenol	446,000		92,600	463,000		96.4	70-130
Phenanthrene	773,000		37,000	463,000	275,000	108	70-130
Phenol	476,000		92,600	463,000	15,600	99.5	70-130
Pyrene	509,000		37,000	463,000	24,600	105	70-130
1,2,4-Trichlorobenzene	421,000		92,600	463,000		91.0	70-130
2,4,5-Trichlorophenol	456,000		92,600	463,000		98.6	70-130
2,4,6-Trichlorophenol	454,000		92,600	463,000		98.0	70-130

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B0E1304-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Surrogates

ANALYTE	Result µg/kg	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,360,000		1.42E6	95.9	10-153
Surr: Phenol-d5	1,450,000		1.42E6	103	16-138
Surr: 2-Chlorophenol-d4	1,370,000		1.42E6	97.0	16-135
Surr: 1,2-Dichlorobenzene-d4	967,000		943,000	102	28-127
Surr: Nitrobenzene-d5	889,000		943,000	94.2	20-142
Surr: 2-Fluorobiphenyl	866,000		943,000	91.8	40-129
Surr: 2,4,6-Tribromophenol	1,620,000		1.42E6	115	10-151
Surr: Terphenyl-d14	1,110,000		943,000	118	29-129

Matrix Spike Dup (B0E1304-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acenaphthene	384,000		37,700	472,000		81.4	70-130	2.31	30
Acenaphthylene	394,000		37,700	472,000		83.5	70-130	2.95	30
Acetophenone	736,000		94,300	472,000		156 #	70-130	2.86	30
Anthracene	416,000		37,700	472,000	6,420	86.8	70-130	4.63	30
Atrazine	455,000		94,300	472,000		96.6	70-130	4.04	30
Benzaldehyde	489,000		94,300	472,000		104	70-130	2.95	30
Benzoic acid	346,000		189,000	472,000		73.3	70-130	2.64	30
Benzo (a) anthracene	472,000		94,300	472,000	17,200	96.4	70-130	7.84	30
Benzo (a) pyrene	424,000		94,300	472,000		89.8	70-130	8.48	30
Benzo (b) fluoranthene	452,000		94,300	472,000		95.7	70-130	2.74	30
Benzo (g,h,i) perylene	344,000		94,300	472,000		73.0	70-130	4.50	30
Benzo (k) fluoranthene	411,000		94,300	472,000		87.2	70-130	13.5	30
Benzyl alcohol	499,000		94,300	472,000		106	70-130	5.98	30
1,1'-Biphenyl	525,000		94,300	472,000	73,900	95.7	70-130	1.94	30
Bis(2-chloroethoxy)methane	435,000		94,300	472,000		92.2	70-130	6.13	30
Bis(2-chloroethyl)ether	455,000		94,300	472,000		96.4	70-130	5.33	30

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B0E1304-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Bis(2-chloroisopropyl)ether	430,000		94,300	472,000		91.1		70-130	4.34	30
Bis(2-ethylhexyl)phthalate	412,000		94,300	472,000		87.4		70-130	3.57	30
4-Bromophenyl phenyl ether	440,000		94,300	472,000		93.2		70-130	7.31	30
Butyl benzyl phthalate	456,000		94,300	472,000		96.7		70-130	3.41	30
Carbazole	493,000		94,300	472,000		105		70-130	5.46	30
Caprolactam	860,000		94,300	472,000		182	#	70-130	8.38	30
4-Chloroaniline	467,000		94,300	472,000		99.0		70-130	6.39	30
2-Chloronaphthalene	492,000		94,300	472,000		104		70-130	2.56	30
2-Chlorophenol	492,000		94,300	472,000		104		70-130	5.31	30
4-Chlorophenyl phenyl ether	403,000		94,300	472,000		85.4		70-130	3.24	30
4-Chloro-3-methylphenol	403,000		94,300	472,000		85.4		70-130	7.42	30
Chrysene	504,000		94,300	472,000	61,500	93.8		70-130	3.77	30
Dibenzofuran	385,000		94,300	472,000		81.6		70-130	7.20	30
Dibenz (a,h) anthracene	356,000		94,300	472,000		75.4		70-130	5.83	30
1,2-Dichlorobenzene	423,000		94,300	472,000		89.7		70-130	4.69	30
1,3-Dichlorobenzene	428,000		94,300	472,000		90.7		70-130	4.00	30
1,4-Dichlorobenzene	454,000		94,300	472,000		96.3		70-130	4.68	30
3,3´-Dichlorobenzidine	789,000		94,300	472,000		167	#	70-130	3.71	30
2,4-Dichlorophenol	377,000		94,300	472,000		79.9		70-130	5.19	30
Diethyl phthalate	423,000		94,300	472,000		89.7		70-130	6.10	30
2,4-Dimethylphenol	422,000		94,300	472,000		89.5		70-130	5.12	30
Dimethyl phthalate	478,000		94,300	472,000		101		70-130	3.55	30
2,4-Dinitrophenol	316,000		377,000	472,000		67.0	#	70-130	7.36	30
2,4-Dinitrotoluene	482,000		94,300	472,000		102		70-130	2.95	30
2,6-Dinitrotoluene	406,000		94,300	472,000		86.0		70-130	0.25	30
4,6-Dinitro-2-methylphenol	302,000		377,000	472,000		64.1	#	70-130	0.78	30
Di-n-butyl phthalate	444,000		94,300	472,000		94.1		70-130	4.51	30
Di-n-octyl phthalate	405,000		94,300	472,000		85.8		70-130	7.09	30
Fluoranthene	389,000		37,700	472,000		82.5		70-130	8.52	30
Fluorene	452,000		37,700	472,000	108,000	73.0		70-130	8.13	30

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B0E1304 **Sample Type: Non-Aqueous Liquid**

Matrix Spike Dup (B0E1304-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/13/2010

Targets (Continued)

ANALYTE	Result µg/kg	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Hexachlorobenzene	435,000		94,300	472,000		92.2		70-130	3.45	30
Hexachlorobutadiene	360,000		94,300	472,000		76.3		70-130	5.16	30
Hexachlorocyclopentadiene	295,000		94,300	472,000		62.6	#	70-130	8.73	30
Hexachloroethane	602,000		94,300	472,000		128		70-130	1.19	30
Indeno (1,2,3-cd) pyrene	356,000		94,300	472,000		75.4		70-130	6.52	30
Isophorone	352,000		94,300	472,000		74.7		70-130	7.14	30
2-Methylnaphthalene	1,020,000		37,700	472,000	655,000	76.3		70-130	5.30	30
2-Methylphenol	459,000		94,300	472,000		97.2		70-130	6.22	30
3 &/or 4-Methylphenol	447,000		94,300	472,000		94.8		70-130	4.58	30
Naphthalene	747,000		37,700	472,000	75,400	142	#	70-130	5.60	30
2-Nitroaniline	423,000		151,000	472,000		89.8		70-130	2.70	30
3-Nitroaniline	848,000		151,000	472,000		180	#	70-130	2.17	30
4-Nitroaniline	487,000		151,000	472,000		103		70-130	1.15	30
Nitrobenzene	418,000		94,300	472,000		88.7		70-130	5.22	30
2-Nitrophenol	439,000		94,300	472,000		93.1		70-130	4.34	30
4-Nitrophenol	406,000		245,000	472,000		86.0		70-130	12.1	30
N-Nitrosodiphenylamine	512,000		94,300	472,000		109		70-130	2.72	30
N-Nitrosodi-n-propylamine	476,000		94,300	472,000		101		70-130	1.52	30
Pentachlorophenol	436,000		94,300	472,000		92.4		70-130	2.41	30
Phenanthrene	751,000		37,700	472,000	275,000	101		70-130	2.82	30
Phenol	459,000		94,300	472,000	15,600	94.0		70-130	3.69	30
Pyrene	502,000		37,700	472,000	24,600	101		70-130	1.39	30
1,2,4-Trichlorobenzene	400,000		94,300	472,000		84.7		70-130	5.28	30
2,4,5-Trichlorophenol	444,000		94,300	472,000		94.0		70-130	2.87	30
2,4,6-Trichlorophenol	424,000		94,300	472,000		89.8		70-130	6.87	30

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Glycols by Direct Aqueous Injection - GC/MS - Quality Control

Batch: B0E1401 **Sample Type: Phasic**

Blank (B0E1401-BLK1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
2-Butoxyethanol	U		2.0
Propylene glycol	U		2.0

LCS (B0E1401-BS1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
2-Butoxyethanol	75.5		2.0	101	74.5	70-130
Propylene glycol	74.9		2.0	99.5	75.3	70-130

Matrix Spike (B0E1401-MS1)

Source: 1005015-01RE1 Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
2-Butoxyethanol	756		20.0	1,010	3.3	74.2	70-130
Propylene glycol	733		20.0	995	3.7	73.3	70-130

Matrix Spike Dup (B0E1401-MSD1)

Source: 1005015-01RE1 Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Butoxyethanol	774		20.0	1,010	3.3	76.0	70-130	2.29	30
Propylene glycol	746		20.0	995	3.7	74.6	70-130	1.80	30

Environmental Protection Agency
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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E1402 **Sample Type: Solid**

Blank (B0E1402-BLK1)

Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Antimony	U		6.0
Arsenic	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	21.3		15.0
Chromium	U		1.0
Cobalt	U		2.0
Copper	2.7		2.0
Iron	U		2.5
Lead	U		3.0
Magnesium	U		15.0
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Selenium	U		10.0
Silver	U		1.0
Sodium	U		50.0
Thallium	U		10.0
Vanadium	U		2.0
Zinc	U		2.0

LCS (B0E1402-BS1)

Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	200		10.0	200	100	75-125

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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E1402 **Sample Type: Solid**

LCS (B0E1402-BS1)

Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	80.5		6.0	80.0	101	75-125
Arsenic	407		10.0	400	102	75-125
Barium	391		1.0	400	97.6	75-125
Beryllium	10.4		0.5	10.0	104	75-125
Cadmium	9.5		0.5	10.0	95.1	75-125
Calcium	20,300		15.0	20,000	101	75-125
Chromium	79.9		1.0	80.0	99.9	75-125
Cobalt	38.9		2.0	40.0	97.3	75-125
Copper	84.1		2.0	80.0	105	75-125
Iron	197		2.5	200	98.6	75-125
Lead	77.6		3.0	80.0	97.0	75-125
Magnesium	20,900		15.0	20,000	105	75-125
Manganese	78.1		0.5	80.0	97.6	75-125
Nickel	76.7		2.0	80.0	95.9	75-125
Potassium	21,000		100	20,000	105	75-125
Selenium	197		10.0	200	98.7	75-125
Silver	10.7		1.0	10.0	107	75-125
Sodium	19,700		50.0	20,000	98.7	75-125
Thallium	75.6		10.0	80.0	94.5	75-125
Vanadium	79.2		2.0	80.0	99.0	75-125
Zinc	189		2.0	200	94.5	75-125

Matrix Spike (B0E1402-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	193		4.9	98.5	67.5	127 #	75-125
Antimony	39.3		3.0	39.4		99.8	75-125

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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E1402 **Sample Type: Solid**

Matrix Spike (B0E1402-MS1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Arsenic	199		4.9	197		101	75-125
Barium	215		0.5	197	23.6	97.2	75-125
Beryllium	5.0		0.2	4.93		101	75-125
Cadmium	4.6		0.2	4.93		93.1	75-125
Calcium	10,100		7.4	9,850	583	97.0	75-125
Chromium	38.1		0.5	39.4		96.8	75-125
Cobalt	18.8		1.0	19.7		95.2	75-125
Copper	42.0		1.0	39.4		107	75-125
Iron	155		1.2	98.5	64.2	91.8	75-125
Lead	38.0		1.5	39.4		96.5	75-125
Magnesium	11,400		7.4	9,850	1,350	102	75-125
Manganese	43.3		0.2	39.4	7.1	91.9	75-125
Nickel	36.7		1.0	39.4		93.1	75-125
Potassium	10,800		49.3	9,850	410	106	75-125
Selenium	96.5		4.9	98.5		98.0	75-125
Silver	5.2		0.5	4.93		106	75-125
Sodium	19,400		24.6	9,850	10,200	93.4	75-125
Thallium	34.8		4.9	39.4		88.2	75-125
Vanadium	39.3		1.0	39.4		99.8	75-125
Zinc	89.9		1.0	98.5		91.3	75-125

Matrix Spike Dup (B0E1402-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	219		5.1	102	67.5	149 #	75-125	12.8	20
Antimony	40.8		3.1	40.7		100	75-125	3.67	20
Arsenic	208		5.1	204		102	75-125	4.42	20

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

Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E1402 **Sample Type: Solid**

Matrix Spike Dup (B0E1402-MSD1)

Source: 1005015-01 Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Barium	218		0.5	204	23.6	95.4	75-125	1.36	20
Beryllium	5.3		0.3	5.09		104	75-125	5.55	20
Cadmium	4.8		0.3	5.09		94.2	75-125	4.45	20
Calcium	10,800		7.6	10,200	583	99.9	75-125	5.89	20
Chromium	40.0		0.5	40.7		98.2	75-125	4.75	20
Cobalt	19.6		1.0	20.4		96.3	75-125	4.39	20
Copper	43.7		1.0	40.7		107	75-125	3.86	20
Iron	172		1.3	102	64.2	106	75-125	10.7	20
Lead	39.6		1.5	40.7		97.2	75-125	4.07	20
Magnesium	11,900		7.6	10,200	1,350	104	75-125	4.24	20
Manganese	46.1		0.3	40.7	7.1	95.7	75-125	6.20	20
Nickel	38.4		1.0	40.7		94.2	75-125	4.46	20
Potassium	11,300		50.9	10,200	410	107	75-125	3.94	20
Selenium	101		5.1	102		98.7	75-125	4.05	20
Silver	5.4		0.5	5.09		107	75-125	4.05	20
Sodium	20,100		25.5	10,200	10,200	96.5	75-125	3.17	20
Thallium	36.9		5.1	40.7		90.6	75-125	5.97	20
Vanadium	40.7		1.0	40.7		99.9	75-125	3.35	20
Zinc	95.6		1.0	102		93.9	75-125	6.13	20

Reference (B0E1402-SRM1)

Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	125		9.9	115		109	47.6-152		
Antimony	68.1		6.0	66.0		103	41.8-157		
Arsenic	245		9.9	253		97.0	60.8-139		
Barium	1.7		1.0	1.60		106	62.5-137		

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

Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E1402 **Sample Type: Solid**

Reference (B0E1402-SRM1)

Prepared: 5/13/2010 Analyzed: 5/14/2010

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Beryllium	5.9		0.5	4.90		121		61.2-138		
Cadmium	11.8		0.5	10.9		108		70.6-128		
Calcium	58,900		14.9	44,200		133	#	68.6-131		
Chromium	31.3		1.0	27.1		116		68.3-131		
Cobalt	37.4		2.0	37.4		100		64.7-135		
Copper	2,140		2.0	1,770		121		74.6-126		
Iron	5,930		2.5	6,470		91.7		66.2-133		
Lead	66.1		3.0	56.9		116		72.7-127		
Magnesium	37,300		14.9	29,200		128		70.2-129		
Manganese	72.9		0.5	61.0		119		68.2-132		
Nickel	15.5		2.0	16.3		95.0		55.2-145		
Potassium	U		99.4	39.7		NR	#	0-215		#
Selenium	11.7		9.9	10.0		117		41-159		
Silver	6.3		1.0	5.90		106		45.8-154		
Sodium	U		49.7	72.5		NR	#	0-298		#
Thallium	11.3		9.9	9.50		119		30.5-169		
Vanadium	22.0		2.0	17.6		125		65.9-134		
Zinc	37.8		2.0	47.5		79.6		43.2-156		

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Metals by EPA Method 7470A/7471A - CVAAS - Quality Control

Batch: B0E1405 **Sample Type: Solid**

Blank (B0E1405-BLK1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.06

LCS (B0E1405-BS1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	0.4		0.06	0.400	98.1	75-125

Matrix Spike (B0E1405-MS1)

Source: 1005015-01 Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.4		0.06	0.400		99.7	75-125

Matrix Spike Dup (B0E1405-MSD1)

Source: 1005015-01 Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.4		0.06	0.381		98.0	75-125	6.60	20

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

Metals by EPA Method 7470A/7471A - CVAAS - Quality Control

Batch: B0E1405 **Sample Type: Solid**

Reference (B0E1405-SRM1)

Prepared: 5/14/2010 Analyzed: 5/14/2010

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	3.0		0.6	3.59		84.6	51.8-148		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

Page: 1 of 1
Cooler # 1 of 1
COC #

Required Ship to Lab:
Lab Name: EPA
Address: 10625 Fallstone Rd Houston, Tx 77099
Lab PM:
Phone/Fax:
Lab PM email:
Applicable Lab Quote #:

Required Project Information:
Site ID #: MC252 Oil Spill
Project #:
Site Address: 1597 Highway 311
City: Schreiver State, Zip: LA, 70395
Site PM Name: Carlos Moreno
Phone/Fax: 281-995-1170
Site PM Email: carlos.moreno@bp.com

Required Sampler Information:
Sampler: chris Tedder
Sampling Company: MACTec
Address: 3199 Riverport Tech. Center
City/State: St. Louis mo Phone #: 314 210-7851
Reimbursement project? Non-reimbursement project? Mark one
Send EDD to
CC Hardcopy report to
CC Hardcopy report to

TAT: Standard 5 day Rush X Mark One

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth Start Depth (Depth Unit:)	Sample Depth End Depth	MATRIX CODE	G=GRAB C=COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Filtered	Preserve	Analysis
1	BOASS-051110	BOA Ship	N/A	N/A	W	C	N	05-11-10	1245	5		N	HCL	X Tcl 8260
2												N		X Tcl 8270
3														X metals TAL 10/04471
4														
5														
6														
7														
8														
9														
10														
11														
12														

Additional Comments/Special Instructions:

SAMPLE REASON (check only one)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
X Investigatory	Helen Thoop - NAI	5/11/10	1810	Christy Warren	5/13/10	8:40
Split Comparison						
Split Legal						
Special Study						
Oth:						

Sample Receipt Conditions: 6°C; Temp in OC: Y/N; Samples on Ice?: Y/N; Sample intact?: Y/N; Trip Blank?: Y/N

SHIPPING METHOD: (mark as appropriate) UPS COURIER \ FEDEX US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chris Tedder
SIGNATURE of SAMPLER: Chris Tedder DATE Signed: 5/11/10 Time: 1740

Environmental Standards, Inc-LastUpdated-031609

Environmental Protection Agency

Region 6 Laboratory

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

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.

RL	The reporting limit for this analyte was raised because absence or presence at the routine or lower value could not be verified"
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.