

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

11/21/2006

Laboratory Identifier: 0611306

Received: 11/15/2006 11:54

Sampled by: Brian Dortch

Client: Blue Water

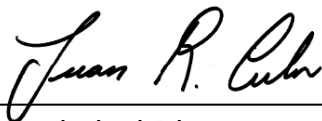
1610 New Highway
Farmingdale,
NY 11735

Project: Island Park Pilot Study

7 Washington Ave
Island Park,
NY 11558

Manager: Greg Ernst (Gannett)

Respectfully submitted,



Technical Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
NH Cert. # 252592-BA
RI Cert. # 161

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Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

11/21/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0611306-1

Client Sample ID: OTC-1

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/15/2006

Type: Grab

Collected: 11/15/2006 09:00

% Solid: 88.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2210-6585	2.81	2.81	ppb	U
71-43-2	Benzene	B 2210-6585	2.81	2.81	ppb	U
108-88-3	Toluene	B 2210-6585	2.14	2.14	ppb	U
100-41-4	Ethylbenzene	B 2210-6585	2.42	2.42	ppb	U
108-38-3	m,p-xylene	B 2210-6585	5.62	5.62	ppb	U
95-47-6	o-xylene	B 2210-6585	4.22	11.5	ppb	Y
1330-20-7	Xylenes(Total)	B 2210-6585	9.84	11.5	ppb	Y
98-82-8	Isopropylbenzene	B 2210-6585	3.54	3.54	ppb	U
103-65-1	n-Propylbenzene	B 2210-6585	4.05	4.05	ppb	U
108-67-8	1,3,5-Trimethylbenzene	B 2210-6585	4.61	114	ppb	
98-06-6	tert-Butylbenzene	B 2210-6585	5.40	12.6	ppb	Y
95-63-6	1,2,4-Trimethylbenzene	B 2210-6585	5.28	85.0	ppb	
135-98-8	sec-Butylbenzene	B 2210-6585	4.66	4.66	ppb	U
99-87-6	p-Isopropyltoluene	B 2210-6585	4.44	70.8	ppb	
104-51-8	n-Butylbenzene	B 2210-6585	5.00	5.00	ppb	U
91-20-3	Naphthalene	B 2210-6585	6.86	6.86	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2210-6585	92.9 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2210-6585	98.2 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2210-6585	95.3 %	(91 - 108)	



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11/21/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0611306-2

Client Sample ID: OTC-2

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/15/2006

Type: Grab

Collected: 11/15/2006 09:30

% Solid: 89.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2210-6586	2.80	2.80	ppb	U
71-43-2	Benzene	B 2210-6586	2.80	2.80	ppb	U
108-88-3	Toluene	B 2210-6586	2.12	2.12	ppb	U
100-41-4	Ethylbenzene	B 2210-6586	2.40	2.40	ppb	U
108-38-3	m,p-xylene	B 2210-6586	5.59	5.59	ppb	U
95-47-6	o-xylene	B 2210-6586	4.19	4.19	ppb	U
1330-20-7	Xylenes(Total)	B 2210-6586	4.92	4.92	ppb	U
98-82-8	Isopropylbenzene	B 2210-6586	3.52	3.52	ppb	U
103-65-1	n-Propylbenzene	B 2210-6586	4.02	4.02	ppb	U
108-67-8	1,3,5-Trimethylbenzene	B 2210-6586	4.58	24.9	ppb	Y
98-06-6	tert-Butylbenzene	B 2210-6586	5.37	23.0	ppb	Y
95-63-6	1,2,4-Trimethylbenzene	B 2210-6586	5.25	5.25	ppb	U
135-98-8	sec-Butylbenzene	B 2210-6586	4.64	4.64	ppb	U
99-87-6	p-Isopropyltoluene	B 2210-6586	4.42	15.1	ppb	Y
104-51-8	n-Butylbenzene	B 2210-6586	4.98	4.98	ppb	U
91-20-3	Naphthalene	B 2210-6586	6.82	6.82	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2210-6586	94.6 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2210-6586	98.7 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2210-6586	96.0 %	(91 - 108)	



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11/21/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0611306-3

Client Sample ID: OTC-3A

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/15/2006

Type: Grab

Collected: 11/15/2006 09:45

% Solid: 89.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2210-6587	2.81	2.81	ppb	U
71-43-2	Benzene	B 2210-6587	2.81	2.81	ppb	U
108-88-3	Toluene	B 2210-6587	2.13	2.13	ppb	U
100-41-4	Ethylbenzene	B 2210-6587	2.41	2.41	ppb	U
108-38-3	m,p-xylene	B 2210-6587	5.61	5.61	ppb	U
95-47-6	o-xylene	B 2210-6587	4.21	4.21	ppb	U
1330-20-7	Xylenes(Total)	B 2210-6587	4.94	4.94	ppb	U
98-82-8	Isopropylbenzene	B 2210-6587	3.53	3.53	ppb	U
103-65-1	n-Propylbenzene	B 2210-6587	4.04	4.04	ppb	U
108-67-8	1,3,5-Trimethylbenzene	B 2210-6587	4.60	25.5	ppb	Y
98-06-6	tert-Butylbenzene	B 2210-6587	5.39	10.2	ppb	Y
95-63-6	1,2,4-Trimethylbenzene	B 2210-6587	5.27	8.91	ppb	Y
135-98-8	sec-Butylbenzene	B 2210-6587	4.66	7.94	ppb	Y
99-87-6	p-Isopropyltoluene	B 2210-6587	4.43	25.4	ppb	Y
104-51-8	n-Butylbenzene	B 2210-6587	4.99	4.99	ppb	U
91-20-3	Naphthalene	B 2210-6587	6.84	6.84	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2210-6587	93.9 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2210-6587	95.7 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2210-6587	96.1 %	(91 - 108)	



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STARS Volatile Compounds by SW 846 8260

Sample: 0611306-4

Client Sample ID: OTC-3B

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/15/2006

Type: Grab

Collected: 11/15/2006 10:15

% Solid: 86.5%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2210-6588	2.89	2.89	ppb	U
71-43-2	Benzene	B 2210-6588	2.89	2.89	ppb	U
108-88-3	Toluene	B 2210-6588	2.20	2.20	ppb	U
100-41-4	Ethylbenzene	B 2210-6588	2.49	2.49	ppb	U
108-38-3	m,p-xylene	B 2210-6588	5.78	5.78	ppb	U
95-47-6	o-xylene	B 2210-6588	4.34	4.34	ppb	U
1330-20-7	Xylenes(Total)	B 2210-6588	5.09	5.09	ppb	U
98-82-8	Isopropylbenzene	B 2210-6588	3.64	3.64	ppb	U
103-65-1	n-Propylbenzene	B 2210-6588	4.16	4.16	ppb	U
108-67-8	1,3,5-Trimethylbenzene	B 2210-6588	4.74	4.74	ppb	U
98-06-6	tert-Butylbenzene	B 2210-6588	5.55	5.55	ppb	U
95-63-6	1,2,4-Trimethylbenzene	B 2210-6588	5.43	5.43	ppb	U
135-98-8	sec-Butylbenzene	B 2210-6588	4.80	4.80	ppb	U
99-87-6	p-Isopropyltoluene	B 2210-6588	4.57	4.57	ppb	U
104-51-8	n-Butylbenzene	B 2210-6588	5.14	5.14	ppb	U
91-20-3	Naphthalene	B 2210-6588	7.05	7.05	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2210-6588	96.5 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2210-6588	95.0 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2210-6588	96.7 %	(91 - 108)	



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11/21/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0611306-5

Client Sample ID: OTC-4

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/15/2006

Type: Grab

Collected: 11/15/2006 11:00

% Solid: 83.8%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2210-6589	2.98	2.98	ppb	U
71-43-2	Benzene	B 2210-6589	2.98	2.98	ppb	U
108-88-3	Toluene	B 2210-6589	2.27	2.27	ppb	U
100-41-4	Ethylbenzene	B 2210-6589	2.57	2.57	ppb	U
108-38-3	m,p-xylene	B 2210-6589	5.97	5.97	ppb	U
95-47-6	o-xylene	B 2210-6589	4.48	4.48	ppb	U
1330-20-7	Xylenes(Total)	B 2210-6589	10.4	10.4	ppb	U
98-82-8	Isopropylbenzene	B 2210-6589	3.76	3.76	ppb	U
103-65-1	n-Propylbenzene	B 2210-6589	4.30	8.13	ppb	Y
108-67-8	1,3,5-Trimethylbenzene	B 2210-6589	4.90	27.1	ppb	Y
98-06-6	tert-Butylbenzene	B 2210-6589	5.73	5.49	ppb	J
95-63-6	1,2,4-Trimethylbenzene	B 2210-6589	5.61	73.6	ppb	
135-98-8	sec-Butylbenzene	B 2210-6589	4.96	10.5	ppb	Y
99-87-6	p-Isopropyltoluene	B 2210-6589	4.72	30.3	ppb	
104-51-8	n-Butylbenzene	B 2210-6589	5.31	5.31	ppb	U
91-20-3	Naphthalene	B 2210-6589	7.28	7.28	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2210-6589	95.2 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2210-6589	93.8 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2210-6589	96.7 %	(91 - 108)	



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11/21/2006

STARS Volatile Compounds by SW 846 8260

Sample: 0611306-6

Client Sample ID: OTC-5

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 11/16/2006

Type: Grab

Collected: 11/15/2006 10:30

% Solid: 85.1%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
1634-04-4	MTBE	B 2211-6610	2.94	2.94	ppb	U
71-43-2	Benzene	B 2211-6610	2.94	2.94	ppb	U
108-88-3	Toluene	B 2211-6610	2.23	2.23	ppb	U
100-41-4	Ethylbenzene	B 2211-6610	2.53	2.53	ppb	U
108-38-3	m,p-xylene	B 2211-6610	5.88	5.88	ppb	U
95-47-6	o-xylene	B 2211-6610	4.41	4.41	ppb	U
1330-20-7	Xylenes(Total)	B 2211-6610	5.17	5.17	ppb	U
98-82-8	Isopropylbenzene	B 2211-6610	3.70	3.70	ppb	U
103-65-1	n-Propylbenzene	B 2211-6610	4.23	4.23	ppb	U
108-67-8	1,3,5-Trimethylbenzene	B 2211-6610	4.82	4.82	ppb	U
98-06-6	tert-Butylbenzene	B 2211-6610	5.64	5.64	ppb	U
95-63-6	1,2,4-Trimethylbenzene	B 2211-6610	5.53	12.9	ppb	Y
135-98-8	sec-Butylbenzene	B 2211-6610	4.88	4.88	ppb	U
99-87-6	p-Isopropyltoluene	B 2211-6610	4.65	25.0	ppb	Y
104-51-8	n-Butylbenzene	B 2211-6610	5.23	5.23	ppb	U
91-20-3	Naphthalene	B 2211-6610	7.17	7.17	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	B2211-6610	96.0 %	(80 - 110)	
4774-33-8	DIBROMOFLUOROMETHANE	B2211-6610	93.5 %	(68 - 156)	
2037-26-5	TOLUENE-D8	B2211-6610	99.8 %	(91 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-1

Client Sample ID: OTC-1

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:00

% Solid: 88.9%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1848	38.1	38.1	ppb	U
83-32-9	Acenaphthene	C1708-1848	29.1	491	ppb	Y
86-73-7	Fluorene	C1708-1848	24.6	609	ppb	
85-01-8	Phenanthrene	C1708-1848	30.2	1270	ppb	
120-12-7	Anthracene	C1708-1848	26.9	26.9	ppb	U
206-44-0	Fluoranthene	C1708-1848	22.4	714	ppb	
129-00-0	Pyrene	C1708-1848	22.4	665	ppb	
56-55-3	Benzo(a)anthracene	C1708-1848	15.7	199	ppb	Y
218-01-9	Chrysene	C1708-1848	24.6	278	ppb	Y
205-99-2	Benzo(b)fluoranthene	C1708-1848	14.6	201	ppb	Y
207-08-9	Benzo(k)fluoranthene	C1708-1848	49.3	173	ppb	Y
50-32-8	Benzo(a)pyrene	C1708-1848	21.3	188	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1848	23.5	126	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1848	19.0	40.7	ppb	Y
191-24-2	Benzo(g,h,i)perylene	C1708-1848	19.0	141	ppb	Y
208-96-8	Acenaphthylene	C1708-1848	26.9	26.9	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1848	58.3 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1848	58.4 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1848	64.0 %	(18 - 137)	



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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-2

Client Sample ID: OTC-2

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:30

% Solid: 89.4%

Remarks: See Case Narrative

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1851	38.1	38.1	ppb	U
83-32-9	Acenaphthene	C1708-1851	29.1	29.1	ppb	U
86-73-7	Fluorene	C1708-1851	24.6	24.6	ppb	U
85-01-8	Phenanthrene	C1708-1851	30.2	30.2	ppb	U
120-12-7	Anthracene	C1708-1851	26.9	26.9	ppb	U
206-44-0	Fluoranthene	C1708-1851	22.4	385	ppb	Y
129-00-0	Pyrene	C1708-1851	22.4	508	ppb	Y
56-55-3	Benzo(a)anthracene	C1708-1851	15.7	179	ppb	Y
218-01-9	Chrysene	C1708-1851	24.6	224	ppb	Y
205-99-2	Benzo(b)fluoranthene	C1708-1851	14.6	198	ppb	Y
207-08-9	Benzo(k)fluoranthene	C1708-1851	49.3	160	ppb	Y
50-32-8	Benzo(a)pyrene	C1708-1851	21.3	194	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1851	23.5	106	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1851	19.0	35.8	ppb	Y
191-24-2	Benzo(g,h,i)perylene	C1708-1851	19.0	118	ppb	Y
208-96-8	Acenaphthylene	C1708-1851	26.9	26.9	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1851	57.4 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1851	75.8 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1851	67.7 %	(18 - 137)	



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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-3

Client Sample ID: OTC-3A

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:45

% Solid: 89.2%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1852	38.1	38.1	ppb	U
83-32-9	Acenaphthene	C1708-1852	29.1	291	ppb	Y
86-73-7	Fluorene	C1708-1852	24.6	24.6	ppb	U
85-01-8	Phenanthrene	C1708-1852	30.2	868	ppb	
120-12-7	Anthracene	C1708-1852	26.9	140	ppb	Y
206-44-0	Fluoranthene	C1708-1852	22.4	1300	ppb	
129-00-0	Pyrene	C1708-1852	22.4	1190	ppb	
56-55-3	Benzo(a)anthracene	C1708-1852	15.7	501	ppb	Y
218-01-9	Chrysene	C1708-1852	24.6	555	ppb	Y
205-99-2	Benzo(b)fluoranthene	C1708-1852	14.6	418	ppb	Y
207-08-9	Benzo(k)fluoranthene	C1708-1852	49.3	397	ppb	Y
50-32-8	Benzo(a)pyrene	C1708-1852	21.3	469	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1852	23.5	199	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1852	19.0	76.5	ppb	Y
191-24-2	Benzo(g,h,i)perylene	C1708-1852	19.0	210	ppb	Y
208-96-8	Acenaphthylene	C1708-1852	26.9	26.9	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1852	58.8 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1852	65.8 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1852	64.5 %	(18 - 137)	



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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-4

Client Sample ID: OTC-3B

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:15

% Solid: 86.5%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1849	39.4	39.4	ppb	U
83-32-9	Acenaphthene	C1708-1849	30.2	30.2	ppb	U
86-73-7	Fluorene	C1708-1849	25.5	25.5	ppb	U
85-01-8	Phenanthrene	C1708-1849	31.3	31.3	ppb	U
120-12-7	Anthracene	C1708-1849	27.8	27.8	ppb	U
206-44-0	Fluoranthene	C1708-1849	23.2	120	ppb	Y
129-00-0	Pyrene	C1708-1849	23.2	419	ppb	Y
56-55-3	Benzo(a)anthracene	C1708-1849	16.2	89.7	ppb	Y
218-01-9	Chrysene	C1708-1849	25.5	134	ppb	Y
205-99-2	Benzo(b)fluoranthene	C1708-1849	15.1	82.7	ppb	Y
207-08-9	Benzo(k)fluoranthene	C1708-1849	51.0	68.5	ppb	Y
50-32-8	Benzo(a)pyrene	C1708-1849	22.0	96.3	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1849	24.4	44.8	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1849	19.7	19.7	ppb	U
191-24-2	Benzo(g,h,i)perylene	C1708-1849	19.7	77.1	ppb	Y
208-96-8	Acenaphthylene	C1708-1849	27.8	27.8	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1849	61.3 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1849	63.1 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1849	63.8 %	(18 - 137)	



Environmental Testing Laboratories, Inc.

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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-5

Client Sample ID: OTC-4

Matrix: Soil

Type: Grab

Collected: 11/15/2006 11:00

% Solid: 83.8%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1850	40.5	40.5	ppb	U
83-32-9	Acenaphthene	C1708-1850	30.9	242	ppb	Y
86-73-7	Fluorene	C1708-1850	26.2	251	ppb	Y
85-01-8	Phenanthrene	C1708-1850	32.1	1050	ppb	
120-12-7	Anthracene	C1708-1850	28.6	171	ppb	Y
206-44-0	Fluoranthene	C1708-1850	23.8	1400	ppb	
129-00-0	Pyrene	C1708-1850	23.8	1380	ppb	
56-55-3	Benzo(a)anthracene	C1708-1850	16.7	508	ppb	Y
218-01-9	Chrysene	C1708-1850	26.2	621	ppb	
205-99-2	Benzo(b)fluoranthene	C1708-1850	15.5	526	ppb	Y
207-08-9	Benzo(k)fluoranthene	C1708-1850	52.4	517	ppb	Y
50-32-8	Benzo(a)pyrene	C1708-1850	22.6	525	ppb	Y
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1850	25.0	270	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1850	20.2	101	ppb	Y
191-24-2	Benzo(g,h,i)perylene	C1708-1850	20.2	285	ppb	Y
208-96-8	Acenaphthylene	C1708-1850	28.6	28.6	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1850	43.5 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1850	44.0 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1850	62.0 %	(18 - 137)	



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11/21/2006

STARS Semivolatiles by SW846 8270C

Sample: 0611306-6

Client Sample ID: OTC-5

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:30

% Solid: 85.1%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/20/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
91-20-3	Naphthalene	C1708-1853	40.1	40.1	ppb	U
83-32-9	Acenaphthene	C1708-1853	30.7	360	ppb	Y
86-73-7	Fluorene	C1708-1853	26.0	449	ppb	Y
85-01-8	Phenanthrene	C1708-1853	31.9	969	ppb	
120-12-7	Anthracene	C1708-1853	28.3	311	ppb	Y
206-44-0	Fluoranthene	C1708-1853	23.6	1570	ppb	
129-00-0	Pyrene	C1708-1853	23.6	1600	ppb	
56-55-3	Benzo(a)anthracene	C1708-1853	16.5	614	ppb	
218-01-9	Chrysene	C1708-1853	26.0	709	ppb	
205-99-2	Benzo(b)fluoranthene	C1708-1853	15.3	672	ppb	
207-08-9	Benzo(k)fluoranthene	C1708-1853	51.9	590	ppb	
50-32-8	Benzo(a)pyrene	C1708-1853	22.4	637	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	C1708-1853	24.8	259	ppb	Y
53-70-3	Dibenzo(a,h)anthracene	C1708-1853	20.1	92.2	ppb	Y
191-24-2	Benzo(g,h,i)perylene	C1708-1853	20.1	264	ppb	Y
208-96-8	Acenaphthylene	C1708-1853	28.3	28.3	ppb	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1708-1853	54.0 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C1708-1853	49.1 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C1708-1853	70.7 %	(18 - 137)	



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11/21/2006

TPH - Method 8015B

Sample: 0611306-1

Client Sample ID: OTC-1

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:00

% Solid: 88.9%

Remarks:

Analyzed Date: 11/17/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -9	13.5	6890	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-9	119.0 %	(30 - 150)	

Sample: 0611306-2

Client Sample ID: OTC-2

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:30

% Solid: 89.4%

Remarks:

Analyzed Date: 11/17/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -10	13.4	5980	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-10	127.0 %	(30 - 150)	



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11/21/2006

TPH - Method 8015B

Sample: 0611306-3

Client Sample ID: OTC-3A

Matrix: Soil

Type: Grab

Collected: 11/15/2006 09:45

% Solid: 89.2%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -14	13.5	3860	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-14	94.9 %	(30 - 150)	

Sample: 0611306-4

Client Sample ID: OTC-3B

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:15

% Solid: 86.5%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -15	13.9	3010	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-15	75.7 %	(30 - 150)	



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11/21/2006

TPH - Method 8015B

Sample: 0611306-5

Client Sample ID: OTC-4

Matrix: Soil

Type: Grab

Collected: 11/15/2006 11:00

% Solid: 83.8%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -16	14.3	1860	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-16	79.9 %	(30 - 150)	

Sample: 0611306-6

Client Sample ID: OTC-5

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:30

% Solid: 85.1%

Remarks:

Analyzed Date: 11/20/2006

Preparation Date(s) : 11/17/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Diesel Range Organics	H 514 -17	14.1	1360	ppm	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H514-17	81.6 %	(30 - 150)	



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11/21/2006

Gasoline Range Organics - EPA 8015B

Sample: 0611306-1

Client Sample ID: OTC-1

Matrix: Soil

Remarks:

Analyzed Date: 11/16/2006

Type: Grab

Collected: 11/15/2006 09:00

% Solid: 88.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -25	0.49	21.4	ppm	

* Results are reported on a dry weight basis

Sample: 0611306-2

Client Sample ID: OTC-2

Matrix: Soil

Remarks:

Analyzed Date: 11/16/2006

Type: Grab

Collected: 11/15/2006 09:30

% Solid: 89.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -26	0.49	72.8	ppm	

* Results are reported on a dry weight basis

Sample: 0611306-3

Client Sample ID: OTC-3A

Matrix: Soil

Remarks:

Analyzed Date: 11/16/2006

Type: Grab

Collected: 11/15/2006 09:45

% Solid: 89.2%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -27	0.49	43.9	ppm	

* Results are reported on a dry weight basis



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11/21/2006

Gasoline Range Organics - EPA 8015B

Sample: 0611306-4

Client Sample ID: OTC-3B

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:15

% Solid: 86.5%

Remarks:

Analyzed Date: 11/16/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -28	0.50	20.1	ppm	

* Results are reported on a dry weight basis

Sample: 0611306-5

Client Sample ID: OTC-4

Matrix: Soil

Type: Grab

Collected: 11/15/2006 11:00

% Solid: 83.8%

Remarks:

Analyzed Date: 11/16/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -29	0.52	21.4	ppm	

* Results are reported on a dry weight basis

Sample: 0611306-6

Client Sample ID: OTC-5

Matrix: Soil

Type: Grab

Collected: 11/15/2006 10:30

% Solid: 85.1%

Remarks:

Analyzed Date: 11/16/2006

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
	Gasoline Range Organics	M 239 -30	0.51	15.1	ppm	

* Results are reported on a dry weight basis



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11/21/2006

Case Narrative

EPA 8260 VOLATILE ANALYSIS:

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

- Acetone
- 2-Butanone
- 4-Methyl-2-pentanone
- 2-Hexanone

M&P-Xylenes and 2-Chloroethylvinylether were calibrated at 10, 40, 100, 200 and 300 ppb levels.

Acrolein/Acrylonitrile were calibrated at 50,100,150,200 and 250 ppb levels.

Tert Butyl Alcohol (TBA) was calibrated at 50,200,500,1000 and 1500 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Due to the non-target compounds present in the samples 0611306-4 & 6, re-analysis at lower dilution was not possible without heavy system and detector contamination.



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11/21/2006

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

- U - The analytical result is not detected above the Method Detection Limit (MDL).
All MDL's are lower than the lowest calibration standard concentration.
- J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit (MDL).
- Y - The concentration reported was detected below the lowest calibration standard concentration.
- B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

- B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
- U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

- E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

- A - Flame AA
- AS - Semi-automated Spectrophotometric
- AV - Automated Cold Vapor AA
- C - Manual Spectrophotometric
- F - Furnace AA
- P - ICP
- T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

