

# Environmental Testing Laboratories, Inc.

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

11/13/2006

**Laboratory Identifier: 0611112**

Received: 11/06/2006 15:51

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,

*Patricia Werner-Els*

Laboratory Manager

NYS Lab ID # 10969

NJ Cert. # 73812

CT Cert. # PH0645

MA Cert. # NY061

PA Cert. # 68-535

NH Cert. # 252592-BA

RI Cert. # 161

The information contained in this report is confidential and intended only for the use of the client listed above. This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc.



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## STARS Volatile Compounds by SW 846 8260

**Sample: 0611112-1**

Client Sample ID: PTW-2

Collected: 11/06/2006 15:00

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/09/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
1634-04-4	MTBE	C2388-9546	0.74	0.74	ug/L	U
71-43-2	Benzene	C2388-9546	0.73	<b>3.74</b>	ug/L	Y
108-88-3	Toluene	C2388-9546	0.55	0.55	ug/L	U
100-41-4	Ethylbenzene	C2388-9546	0.70	0.70	ug/L	U
108-38-3	m,p-xylene	C2388-9546	1.15	1.15	ug/L	U
95-47-6	o-xylene	C2388-9546	0.68	0.68	ug/L	U
1330-20-7	Xylenes(Total)	C2388-9546	1.83	1.83	ug/L	U
98-82-8	Isopropylbenzene	C2388-9546	0.64	<b>0.90</b>	ug/L	Y
103-65-1	n-Propylbenzene	C2388-9546	0.64	<b>1.04</b>	ug/L	Y
108-67-8	1,3,5-Trimethylbenzene	C2388-9546	0.56	0.56	ug/L	U
98-06-6	tert-Butylbenzene	C2388-9546	0.56	0.56	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	C2388-9546	0.54	<b>1.82</b>	ug/L	Y
135-98-8	sec-Butylbenzene	C2388-9546	0.58	0.58	ug/L	U
99-87-6	p-Isopropyltoluene	C2388-9546	0.54	0.54	ug/L	U
104-51-8	n-Butylbenzene	C2388-9546	0.58	0.58	ug/L	U
91-20-3	Naphthalene	C2388-9546	0.62	<b>1.04</b>	ug/L	Y

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2388-9546	95.1 %	( 78 - 112)	
4774-33-8	DIBROMOFLUOROMETHANE	C2388-9546	103.0 %	( 69 - 129)	
2037-26-5	TOLUENE-D8	C2388-9546	102.0 %	( 90 - 108)	



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## STARS Volatile Compounds by SW 846 8260

**Sample: 0611112-2**

Client Sample ID: PTW-1

Collected: 11/06/2006 15:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 11/10/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
1634-04-4	MTBE	C 2389-9561	0.74	0.74	ug/L	U
71-43-2	Benzene	C 2389-9561	0.73	0.73	ug/L	U
108-88-3	Toluene	C 2389-9561	0.55	0.55	ug/L	U
100-41-4	Ethylbenzene	C 2389-9561	0.70	0.70	ug/L	U
108-38-3	m,p-xylene	C 2389-9561	1.15	1.15	ug/L	U
95-47-6	o-xylene	C 2389-9561	0.68	0.68	ug/L	U
1330-20-7	Xylenes(Total)	C 2389-9561	0.92	0.92	ug/L	U
98-82-8	Isopropylbenzene	C 2389-9561	0.64	<b>1.89</b>	ug/L	Y
103-65-1	n-Propylbenzene	C 2389-9561	0.64	<b>3.15</b>	ug/L	Y
108-67-8	1,3,5-Trimethylbenzene	C 2389-9561	0.56	0.56	ug/L	U
98-06-6	tert-Butylbenzene	C 2389-9561	0.56	0.56	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	C 2389-9561	0.54	0.54	ug/L	U
135-98-8	sec-Butylbenzene	C 2389-9561	0.58	<b>1.20</b>	ug/L	Y
99-87-6	p-Isopropyltoluene	C 2389-9561	0.54	0.54	ug/L	U
104-51-8	n-Butylbenzene	C 2389-9561	0.58	<b>1.46</b>	ug/L	Y
91-20-3	Naphthalene	C 2389-9561	0.62	0.62	ug/L	U

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	C2389-9561	95.0 %	( 78 - 112)	
4774-33-8	DIBROMOFLUOROMETHANE	C2389-9561	103.0 %	( 69 - 129)	
2037-26-5	TOLUENE-D8	C2389-9561	101.0 %	( 90 - 108)	



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## STARS Semivolatiles by SW846 8270C

**Sample: 0611112-1**

Client Sample ID: PTW-2

Collected: 11/06/2006 15:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/07/2006

Preparation Date(s) : 11/07/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
91-20-3	Naphthalene	C1700-1730	3.12	3.12	ug/L	U
83-32-9	Acenaphthene	C1700-1730	3.40	3.40	ug/L	U
86-73-7	Fluorene	C1700-1730	3.16	3.16	ug/L	U
85-01-8	Phenanthrene	C1700-1730	3.32	3.32	ug/L	U
120-12-7	Anthracene	C1700-1730	3.68	3.68	ug/L	U
206-44-0	Fluoranthene	C1700-1730	3.96	3.96	ug/L	U
129-00-0	Pyrene	C1700-1730	3.96	3.96	ug/L	U
56-55-3	Benzo(a)anthracene	C1700-1730	3.76	3.76	ug/L	U
218-01-9	Chrysene	C1700-1730	3.76	3.76	ug/L	U
205-99-2	Benzo(b)fluoranthene	C1700-1730	3.96	3.96	ug/L	U
207-08-9	Benzo(k)fluoranthene	C1700-1730	3.76	3.76	ug/L	U
50-32-8	Benzo(a)pyrene	C1700-1730	3.84	3.84	ug/L	U
193-39-5	Indeno(1,2,3-cd)pyrene	C1700-1730	4.00	4.00	ug/L	U
53-70-3	Dibenzo(a,h)anthracene	C1700-1730	3.64	3.64	ug/L	U
191-24-2	Benzo(g,h,i)perylene	C1700-1730	3.44	3.44	ug/L	U
208-96-8	Acenaphthylene	C1700-1730	3.64	3.64	ug/L	U

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1700-1730	63.5 %	( 43 - 116)	
4165-60-0	NITROBENZENE-D5	C1700-1730	63.4 %	( 35 - 114)	
1718-51-0	TERPHENYL-D14	C1700-1730	71.4 %	( 33 - 141)	



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## STARS Semivolatiles by SW846 8270C

**Sample: 0611112-2**

Client Sample ID: PTW-1

Collected: 11/06/2006 15:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/07/2006

Preparation Date(s) : 11/07/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
91-20-3	Naphthalene	C1700-1731	2.84	2.84	ug/L	U
83-32-9	Acenaphthene	C1700-1731	3.09	<b>2.06</b>	ug/L	J
86-73-7	Fluorene	C1700-1731	2.88	2.88	ug/L	U
85-01-8	Phenanthrene	C1700-1731	3.02	3.02	ug/L	U
120-12-7	Anthracene	C1700-1731	3.35	3.35	ug/L	U
206-44-0	Fluoranthene	C1700-1731	3.60	3.60	ug/L	U
129-00-0	Pyrene	C1700-1731	3.60	3.60	ug/L	U
56-55-3	Benzo(a)anthracene	C1700-1731	3.42	3.42	ug/L	U
218-01-9	Chrysene	C1700-1731	3.42	3.42	ug/L	U
205-99-2	Benzo(b)fluoranthene	C1700-1731	3.60	3.60	ug/L	U
207-08-9	Benzo(k)fluoranthene	C1700-1731	3.42	3.42	ug/L	U
50-32-8	Benzo(a)pyrene	C1700-1731	3.49	3.49	ug/L	U
193-39-5	Indeno(1,2,3-cd)pyrene	C1700-1731	3.64	3.64	ug/L	U
53-70-3	Dibenzo(a,h)anthracene	C1700-1731	3.31	3.31	ug/L	U
191-24-2	Benzo(g,h,i)perylene	C1700-1731	3.13	3.13	ug/L	U
208-96-8	Acenaphthylene	C1700-1731	3.31	3.31	ug/L	U

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C1700-1731	49.1 %	( 43 - 116)	
4165-60-0	NITROBENZENE-D5	C1700-1731	49.3 %	( 35 - 114)	
1718-51-0	TERPHENYL-D14	C1700-1731	53.5 %	( 33 - 141)	



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## TPH - Method 8015B

### Sample: 0611112-1

Client Sample ID: PTW-2

Collected: 11/06/2006 15:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/08/2006

Preparation Date(s) : 11/08/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
	Diesel Range Organics	H 510 -9	0.11	0.11	mg/L	U

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H510-9	91.1 %	( 30 - 150)	

### Sample: 0611112-2

Client Sample ID: PTW-1

Collected: 11/06/2006 15:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/08/2006

Preparation Date(s) : 11/08/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
	Diesel Range Organics	H 510 -10	0.15	0.15	mg/L	U

### Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	H510-10	50.9 %	( 30 - 150)	



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## Gasoline Range Organics - EPA 8015B

**Sample: 0611112-1**

Client Sample ID: PTW-2

Collected: 11/06/2006 15:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/10/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
	Gasoline Range Organics	M 238 -7	0.039	<b>0.026</b>	mg/L	J

**Sample: 0611112-2**

Client Sample ID: PTW-1

Collected: 11/06/2006 15:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/10/2006

### Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
	Gasoline Range Organics	M 238 -8	0.039	<b>0.023</b>	mg/L	J



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## Nitrogen/Nitrate - EPA 353.2

**Sample: 0611112-1**

Client Sample ID: PTW-2

Collected: 11/06/2006 15:00

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/07/2006

### Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	1.22	mg/L	Y

**Sample: 0611112-2**

Client Sample ID: PTW-1

Collected: 11/06/2006 15:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 11/07/2006

### Analytical Results

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	1.06	mg/L	Y





# Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

11/13/2006

## 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.



# Environmental Testing Laboratories, Inc.

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

11/13/2006

## 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

