SPEEDWAY LLC
UPDATE REPORT

Site Address: 2880 Atlantic Avenue Brooklyn, NY	**Regulatory Agency:** NYSDEC – Region 2 **Regulatory Contact:** Ainura Doronova **Spill #:** 98-30002 **Consultant:** EnviroTrac Ltd.
Speedway Contact: Sam Kramer	**Project Manager:** Ed Russo

Report Date: May 2021

Spill Incident Cause: Impacted soils encountered during an underground storage tank (UST) upgrade project in August 1998. Removed thirty (30) 550-gallon gasoline, three (3) 4,000-gallon gasoline, one (1) 2,000-gallon gasoline, one (1) 4,000-gallon diesel, two (2) 2,000-gallon gasoline, two (2) 550-gallon waste water USTs and associated remote fills, product piping, and dispensers. During this project 1,006 tons of impacted soils were removed off site for disposal.

Site Remediation Activities: April 2010 – Short-Term Remediation Events (STREs) via soil vapor extraction (SVE) and air sparge (AS) on select on-site wells commenced.

July 2019 – RegenOx® Parts A and B (PetroCleanze™) injections and Enhanced Fluid Recovery (EFR) events commenced.

Current Site Status: Active station

Monitoring Period: January – March 2021

Work Performed: January 14, 2021 – Performed an EFR event while simultaneously conducting an STRE on select on-site wells.

February 10, 2021 – Performed an EFR event while simultaneously conducting an STRE on select on-site wells.

March 3, 2021 – Performed an EFR event while simultaneously conducting an STRE on select on-site wells.

March 15, 2021 – Gauged and sampled two (2) monitoring wells (MWs).

Groundwater Monitoring:

Wells Gauged:	MW-1 and MW-6
Wells Containing LPH:	None
Groundwater Depth:	32.00 feet – 32.51 feet
Groundwater Flow:	Southwesterly
Wells Sampled:	MW- 1 and MW-6
Maximum BTEX Concentration:	352 µg/L (MW-1)
Maximum MTBE Concentration:	Non-detect (all wells)
Total VOCs Range:	23.9 – 1,080.9 µg/L

Recommendations: EnviroTrac will continue with quarterly groundwater sampling, with the next sampling event scheduled for June 2021. An Update Report summarizing activities completed from April through June 2021 will be submitted to NYSDEC in August 2021.

SPEEDWAY LLC
UPDATE REPORT (cont.)

Site Address: 2880 Atlantic Avenue Brooklyn, NY	**Regulatory Agency:** NYSDEC – Region 2 **Regulatory Contact:** Ainura Doronova **Spill #:** 98-30002 **Consultant:** EnviroTrac Ltd.
Speedway Contact: Sam Kramer	**Project Manager:** Ed Russo

List of Attachments:

Tables:
Table 1 – Summary of Well Gauging and Groundwater Analytical Data
Table 2 – Summary of Groundwater Sampling Data for VOC STARs List
Table 3 – Short Term Remediation Event (STRE) Data
Table 4 – Summary of EFR Event Field Data

Figures:
Figure 1 – Aerial Photograph
Figure 2 – Water-Table Elevation on March 15, 2021 and Total BTEX/Total VOC Concentrations Map
Figure 3 – Hydrograph of MW-1
Figure 4 – Hydrograph of MW-6

Attachments:
Laboratory Analytical Reports

Table 1
Summary of Well Gauging and Groundwater Analytical Data
2880 Atlantic Avenue
Brooklyn, NY

Well ID (Screen Zone)	Date	Gauge Pt. Elevation (feet)	Depth to Water (fbg)	Product Depth (fbg)	Product Thickness (feet)	Water Level Elevation (feet)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	BTEX (ug/L)	MTBE (ug/L)
MW-1 (30-45')	06/09/20	39.26	32.60			6.66	ND	ND	35.3	559	594.3	ND
	09/30/20	39.26	32.26			7.00	ND	ND	42.7	1,020	1,062.7	ND
	12/29/20	39.26	32.20			7.06	ND	ND	180	351	531	ND
	03/15/21	39.26	32.51			6.75	ND	ND	181	171	352	ND
MW-4 (30-45')	02/11/19	WELL ABANDONED ON 02/11/2019										
MW-5 (30-45')	02/11/19	WELL ABANDONED ON 02/11/2019										
MW-6 (30-45')	06/09/20	38.95	32.20			6.75	ND	ND	ND	ND	ND	ND
	09/30/20	38.95	31.89			7.06	ND	ND	1.8	ND	1.8	ND
	12/29/20	38.95	31.81			7.14	ND	1.2	38.3	13.0	52.5	ND
	03/15/21	38.95	32.00			6.95	ND	ND	ND	ND	ND	ND

Notes:
ND = Not Detected
NS = Not Sampled
NM = Not Measured

Table 2
Summary of Groundwater Sampling Data for VOC STARs List
2880 Atlantic Avenue
Brooklyn, NY

Well ID	Date	Benzene (1)	n-Butylbenzene (5)	sec-Butylbenzene (5)	tert-Butylbenzene (5)	Ethylbenzene (5)	Isopropylbenzene (5)	p-Isopropyltoluene (5)	Methyl Tert Butyl Ether (10)	Naphthalene (10)	n-Propylbenzene (5)	Toluene (5)	1,2,4-Trimethylbenzene (5)	1,3,5-Trimethylbenzene (5)	m,p-Xylene	o-Xylene	Total Xylene (5)	Total VOCs
MW-1	6/9/2020	ND	**6.8**	4.1	ND	**35.3**	**7.6**	4.0	ND	**60.8**	**10.4**	ND	**327**	**74.4**	382	177	**559**	1,089.4
	9/30/2020	ND	**13.3**	**5.5**	ND	**42.7**	**6.5**	**6.8**	ND	**109**	**6.0**	ND	**1,020**	**157**	761	257	**1,020**	2,386.8
	12/29/2020	ND	**6.6**	**9.7**	ND	**180**	**29.1**	3.8	ND	**44.2**	**41.3**	ND	**1,140**	4.8	97.0	254	**351**	1,810.5
	3/15/2021	ND	4.3	4.6	ND	**181**	**18.5**	1.2	ND	**63.6**	**25.2**	ND	**582**	**29.5**	116	54.7	**171**	1,080.9
MW-4	2/11/2019	WELL ABANDONED ON 02/11/2019																
MW-5	2/11/2019	WELL ABANDONED ON 02/11/2019																
MW-6	6/9/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2020	ND	1.8	2.3	ND	1.8	**8.2**	ND	ND	9.5	**19.2**	ND	**47.7**	ND	ND	1.3	ND	90.5
	12/29/2020	ND	**37.3**	**28.7**	ND	**38.3**	**137**	**6.2**	ND	**107**	**340**	1.2	**714**	1.7	ND	11.3	**13.0**	1,424.4
	3/15/2021	ND	2.7	2.6	ND	ND	**5.0**	ND	ND	3.1	**8.5**	ND	2.0	ND	ND	ND	ND	23.9

Notes:
Concentration units = µg/L (micrograms per Liter)
Laboratory analyses via EPA Method 8260 STARs List
ND = Not Detected
NYSDEC Groundwater Standards are listed in parentheses
Bold values indicate an exceedance of the NYSDEC Groundwater Standards

Table 3
Short Term Remediation Event (STRE) Data
2880 Atlantic Avenue
Brooklyn, NY

Extraction Well	Sparge Well	Date	Event Hours	SVE Vacuum ("H2O)	SVE Flow (cfm)	AS Pressure (psi)	AS Flow (cfm)	SVE Effluent PID (ppm)
MW-1	AS-3	04/07/11	3	20	100	3.5	20	1,102
		05/19/11	3	46	97	0.5	21	193
		06/06/11	2	35	75	0	20	764
		07/11/11	3	22	100	5	16	1,117
		09/09/11	2	33	75	1.5	19	426
		11/07/11	3	35	75	2.0	21	395
		12/05/11	3	33	75	2.0	21	444
		02/23/12	6.5	28	75	2.0	21	466
		03/13/12	6.5	28	75	2.0	21	434
		04/17/12	6	11.5	75	2.5	21	1,068
		05/22/12	6	18	100	2.5	20	871
		06/04/12	6	26	NM	3.0	14	678
		08/06/12	3	28	-	2.5	14	514
		12/13/12	6	28	-	5.0	15	653
		01/04/13	6	15	75	3.0	23	875
		02/25/13	6	16.5	75	0.0	22	1,129
		03/06/13	3.5	37	75	0.0	21	431
		04/11/13	6	18	80	0.0	21	801
		05/13/13	6	35	75	0.0	21	544
		06/07/13	6	35	75	0.0	20	393
		07/29/13	6	22	95	0.0	20	464
		08/27/13	6	30	30	4.0	20	620
		09/12/13	6	18	-	3.0	15	238
		10/07/13	6	18	-	5.0	16	243
		11/06/13	8	20	-	5.0	20	356
		12/04/13	6	20	-	4.0	15	703
		01/14/14	6.5	20	-	4.0	15	496
		02/06/14	6	50	80	3.5	15	494
		03/24/14	8	32	60	3.5	20	439
		04/08/14	8	30	60	4.0	22	384
		05/27/14	6	44	85	4.0	17	211
		06/04/14	6.5	52	90	4.0	17	241
		07/07/14	6	15	75	1.4	20	156
		09/01/14	6	37	75	3.5	18	398
		09/14/14	6.5	34	95	2.4	20	387
		12/03/14	6	50	80	3.5	16	195.3
		01/18/15	6	38	100	1.8	19	468.0
		02/03/15	5.5	36	75	2.0	19	483.0
		04/09/15	6	42	95	3.5	19	341.0
		05/04/15	6	38	80	3.5	19	316.0
		06/16/15	6	32	95	1.5	20	450.6
		07/29/15	8	30	90	10.0	15	4.7
		08/06/15	8	42	95	3.5	18	281.0
		09/28/15	8	46	85	4.0	15	306.0
		11/05/15	8	21	100	3.0	17	368.0
		11/16/15	4.5	22	95	3.0	17	289.0
		11/25/15	8	38	85	4.0	19	281.0
		12/01/15	8	48	90	5.0	17	274.0
		01/13/16	8	48	90	4.0	18	320.0
		02/22/16	8	48	100	4.0	16	442.0
		03/02/16	8	19	100	3.0	17	518.0
		04/07/16	8	80	24	3.0	18	512.6
		05/17/16	8	21	90	3.4	16	398.0
		06/01/16	8	24	90	3.0	16	250.2
		07/11/16	7	25	110	4.5	20	317.9
		08/19/16	8	41	85	4.0	11	105.0
		09/15/16	6	NM	90	4.0	15	221.0
		10/26/16	8	10	90	3.4	15	84.7
		11/15/16	8	30	85	6.0	15	91.3
		12/01/16	8	30	85	4.0	14	103.4
		01/12/17	8	35	90	3.0	19	338.1
		02/14/17	8	26	70	5.5	12	26.6
		03/06/17	8	40	90	4.0	20	349.6

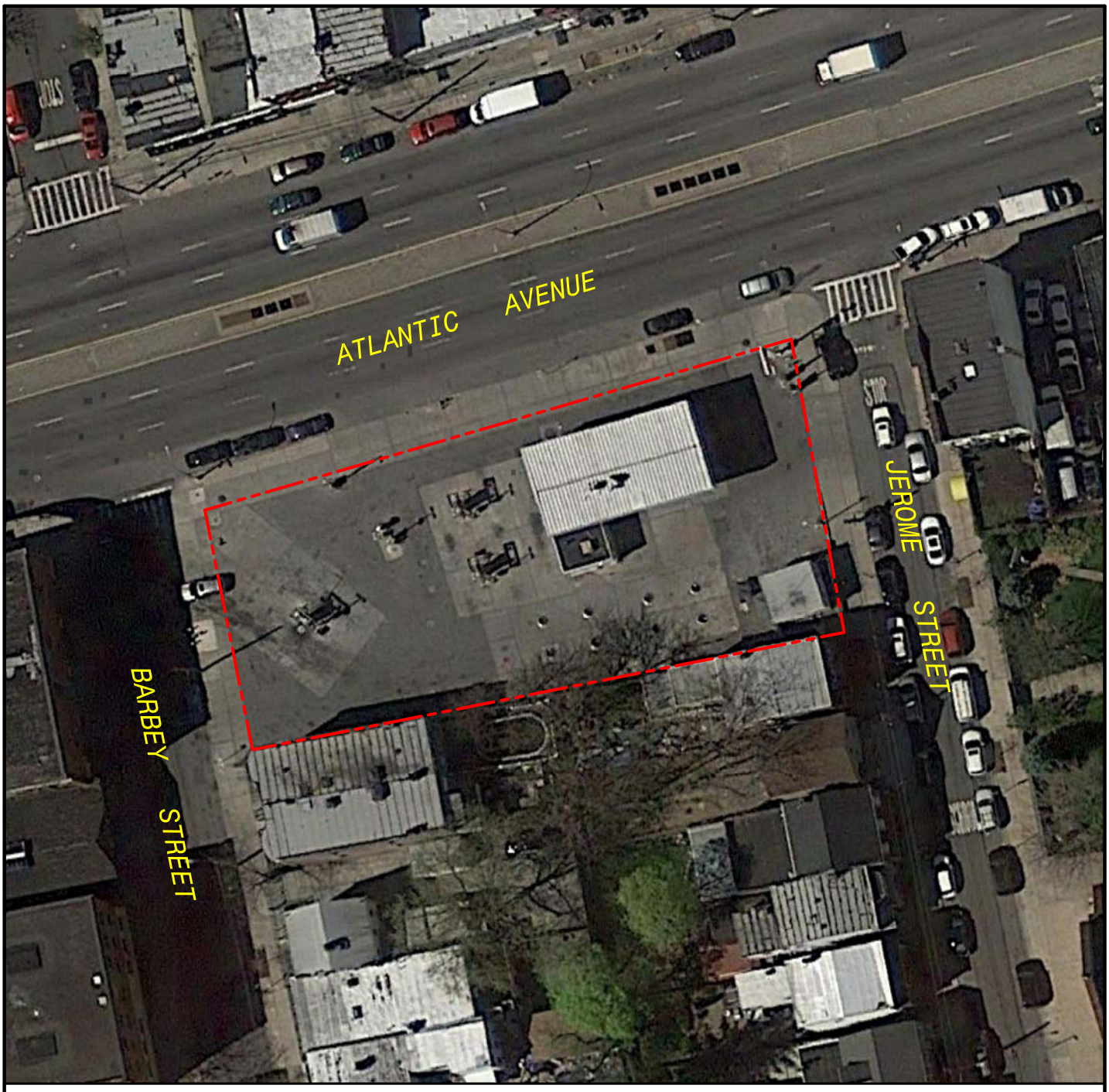
Table 3
Short Term Remediation Event (STRE) Data
2880 Atlantic Avenue
Brooklyn, NY

Extraction Well	Sparge Well	Date	Event Hours	SVE Vacuum ("H2O)	SVE Flow (cfm)	AS Pressure (psi)	AS Flow (cfm)	SVE Effluent PID (ppm)
MW-1	AS-3	04/10/17	8	50	100	5.0	19	356.8
		05/24/17	8	50	100	5.0	18	175.1
		06/05/17	8	10	95	5.0	16	133.1
		07/21/17	8	48	90	5.0	17	114.5
		08/08/17	8	48	90	4.0	18	136.7
		09/18/17	8	40	80	5.5	16	183.8
		10/24/17	8	46	95	2.0	17	1,000.1
		11/16/17	8	50	94	4.0	16	708.8
		12/04/17	8	48	100	3.0	19	127.7
		01/15/18	8	54	95	4.0	17	453.1
		02/14/18	8	34	60	4.0	20	333.1
		03/09/18	8	50	100	4.0	19	199.4
		04/02/18	8	48	90	4.0	18	178.8
		04/02/18	8	48	90	4.0	18	178.8
		05/17/18	4	45	90	4.0	17	99.1
		06/01/18	4	50	90	5.0	17	333.1
		07/03/18	4	56	90	7.0	18	211.1
		09/07/18	4	21	50	5.0	15	530.1
		10/04/18	4	30	40	5.0	20	253.1
		11/26/18	4	46	90	4.0	20	244.9
		12/03/18	4	40	80	5.0	15	688.1
		01/24/19	4	22	40	4.0	20	323.1
		02/11/19	4	30	65	5.0	18	72.7
		03/01/19	4	30	70	6.0	15	91.7
		04/11/19	4	80	42	4.0	20	175.9
		05/07/19	3.5	43	90	4.0	22	171.7
		06/04/19	4	53	95	4.0	21	356.5
		01/29/20	5	>100	45	4.0	20	418.1
		02/20/20	4	-55	100	5.0	20	180.0
		06/03/20	4	46	70	4.0	17	155.6
		07/03/20	4	48	70	4.5	20	132.6
		09/23/20	8	46	75	4.0	19	88.1
		09/30/20	8	48	85	4.0	18	71.1
		01/14/21	7	-100	34	4.5	18	121.7
MW-6	AS-1	04/23/10	1.5	52	60	2.5	19	272
		05/19/10	3	41	62	1.8	19	197
		06/09/10	1.5	23	65	1.2	20	247
		08/03/10	3	42	65	1.5	19	182
		08/10/10	2	35	50	1.5	19	120
		09/08/10	3	46	75	1.0	20	141
		03/17/11	4	46	95	1.0	21	76
		06/06/11	3	28	75	1.0	20	95
		07/11/11	2	30	85	4.5	17	75.3
		09/09/11	2	35	75	2.0	19	69
		05/17/18	4	70	35	5.0	17	53.2
		06/01/18	4	70	35	5.0	17	59.6
		07/03/18	4	65	40	5.0	18	44.8
		09/07/18	4	30	25	6.0	21	497.2
		10/04/18	4	40	30	5.0	15	47.4
		11/26/18	4	40	65	4.0	20	176.6
		12/03/18	4	40	65	6.0	20	118.5
		01/24/19	4	24	40	4.5	20	137.4
		02/11/19	4	45	50	5.0	20	92.1
		03/01/19	4	34	60	5.0	15	46.6
		04/11/19	4	40	60	5.0	18	147.3
		05/07/19	4	45	70	4.5	22	134.5
		06/04/19	4	45	50	4.5	20	95.8
		01/29/20	3	-95	35	4.0	19	136.6
		02/20/20	4	-50	90	5.0	20	116.3
		06/03/20	2	51	25	5.0	15	16.1
		07/03/20	4	40	65	5.0	20	47.2
		02/10/21	8	-30	40	5.0	18	114.1
		03/03/21	7	-30	35	5.0	18	16.6

Notes:
cfm - cubic feet per minute
psi - pounds per square inch
ppm - parts per million
NM - Not Measured

Table 4
Summary of Enhanced Fluid Recovery (EFR) Event Field Data
2880 Atlantic Avenue
Brooklyn, NY

Well ID	Date	EFR (hrs)	Water Recovered (Gallons)
MW-1/MW-6	7/31/2019	4/4	2,905
MW-1/MW-6	8/21/2019	3/3	2,175
MW-1	10/18/2019	6	2,179
MW-1	12/4/2019	6	2,175
MW-1/MW-6	1/29/2020	8	377
MW-1/MW-6	3/25/2020	6	2,391
MW-1/MW-6	5/8/2020	8	2,138
MW-1	12/10/2020	6.5	69
MW-1	1/14/2021	7	44
MW-6	2/10/2021	8	395
MW-6	3/3/2021	7	309
Total Gallons Recovered		=	15,157



LEGEND:

PROPERTY BOUNDARY

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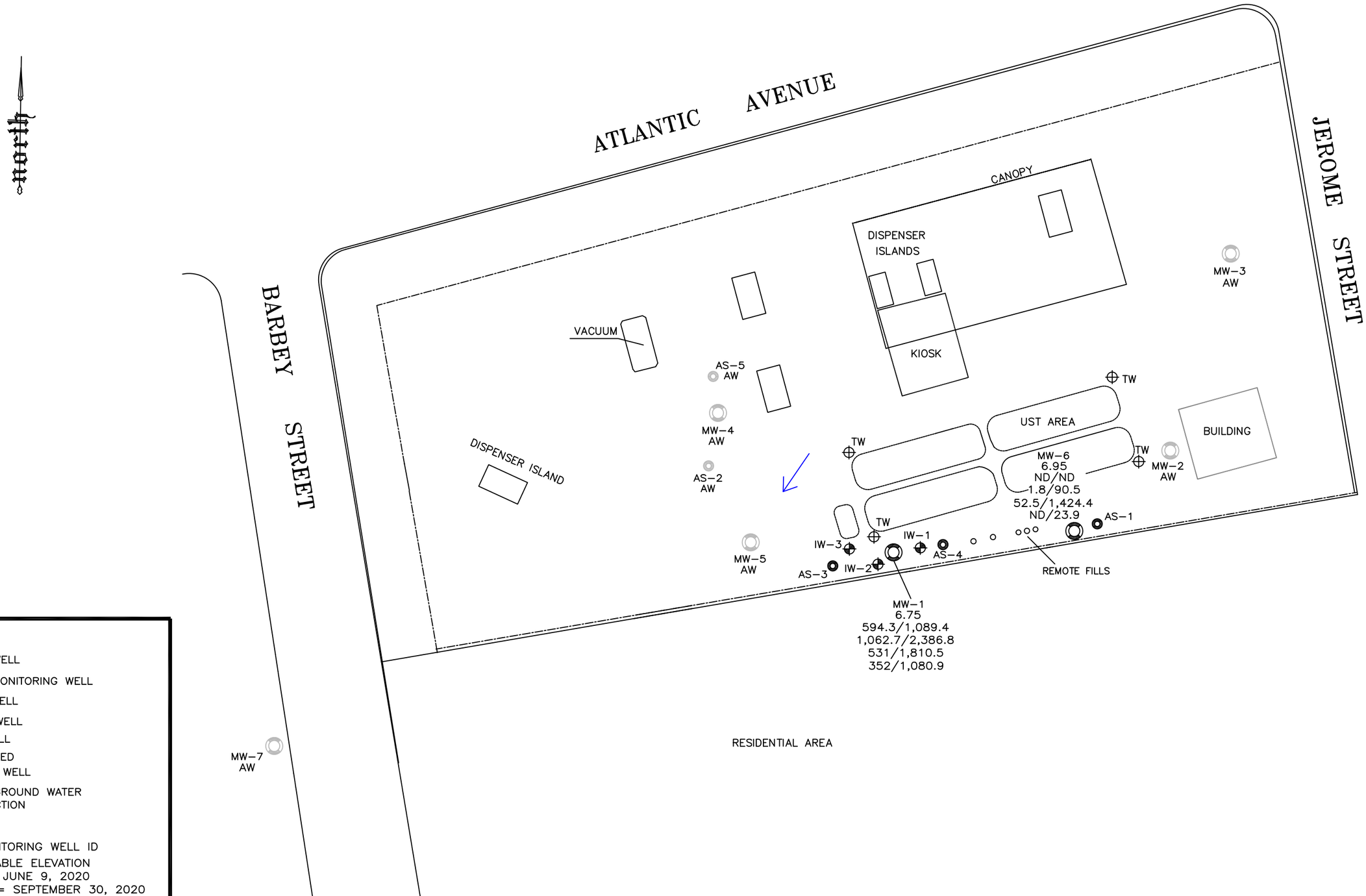
SCALE IN FEET

FIGURE #	AERIAL PHOTOGRAPH	DRAWN BY: B.S.	
1	SPEEDWAY #7823 2880 ATLANTIC AVENUE BROOKLYN, NEW YORK	REVISION DATE: 1/7/2019	EnviroTrac ENVIRONMENTAL SERVICES 5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980 PHONE: (631)924-3001 FAX: (631)924-5001



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- TANK FIELD WELL
- AIR SPARGE WELL
- INJECTION WELL

ND = NOT DETECTED
AW = ABANDONED WELL

INFERRED GROUND WATER FLOW DIRECTION

SAMPLE WELL:

MW–1 = MONITORING WELL ID
6.75 = WATER–TABLE ELEVATION
594.3/1,089.4 = JUNE 9, 2020
1,062.7/2,386.8 = SEPTEMBER 30, 2020
531/1,810.5 = DECEMBER 29, 2020
352/1,080.9 = MARCH 15, 2021

TOTAL BTEX/VOC CONCENTRATIONS IN ug/L

Base map taken from DELTA map dated 12/28/07

EnviroTrac
ENVIRONMENTAL SERVICES
5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924–3001 FAX: (631)924–5001

0 15 FT 30

REVISION DATE: MAY 20, 2021 | SCALE: 1" = 30 FEET | REVISED BY: TB

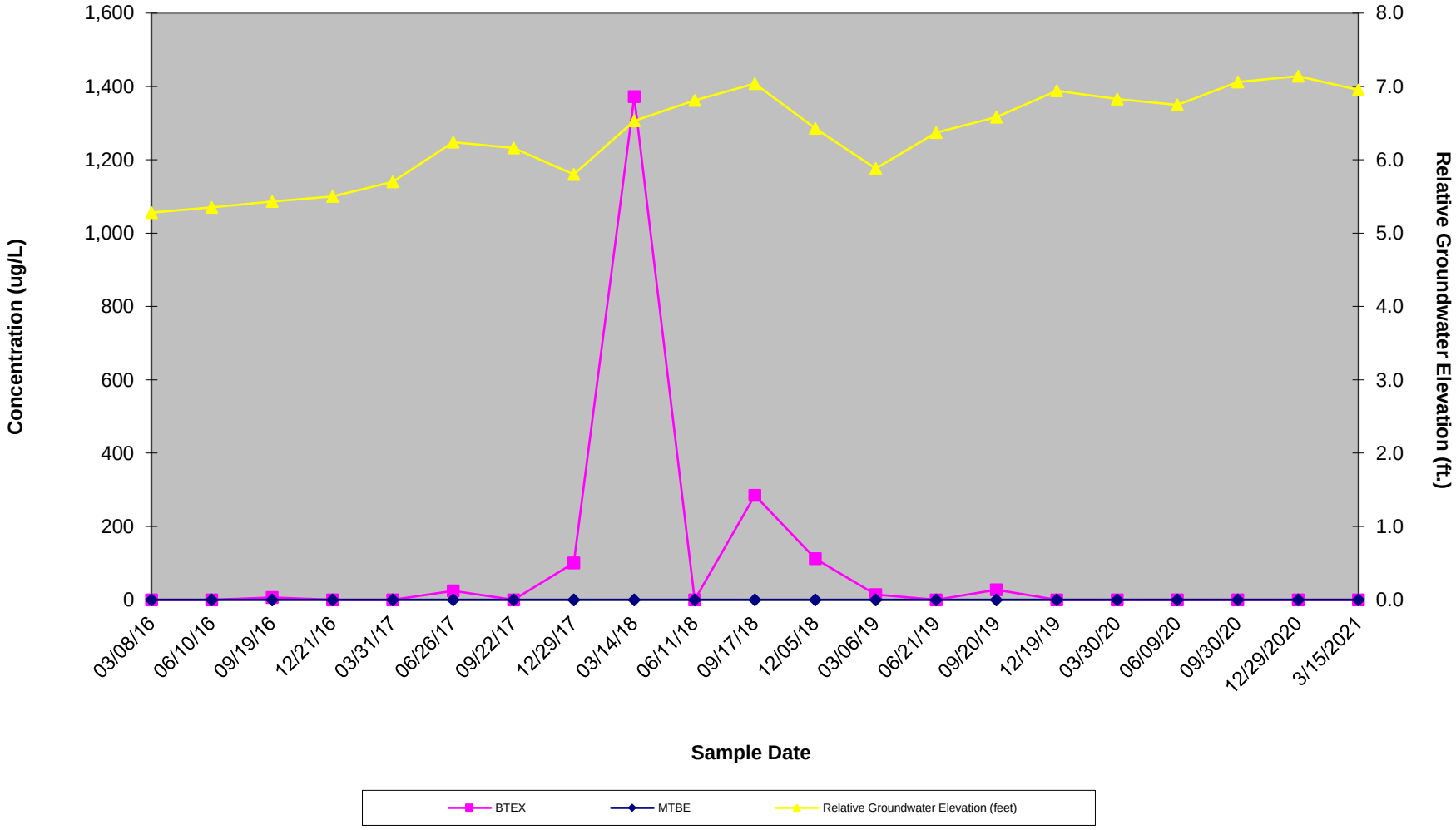
SPEEDWAY #7823
2880 ATLANTIC AVENUE
BROOKLYN, NEW YORK

WATER–TABLE ELEVATION ON MARCH 15, 2021 AND TOTAL BTEX/VOC CONCENTRATIONS MAP

FIGURE # 2

FIGURE 3
Hydrograph of MW-1
2880 Atlantic Avenue
Brooklyn, NY

FIGURE 4
Hydrograph of MW-6
2880 Atlantic Avenue
Brooklyn, NY



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

March 29, 2021

Mr. Ed Russo
Envirotrac
5 Old Dock Road
Yaphank, NY 11980

RE: Project: SPEEDWAY #7823
Pace Project No.: 70166059

Dear Mr. Russo:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julie Litvin
julie.litvin@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Lorriane Avila, Pace Analytical
Crystal Bakewicz, EnviroTrac Ltd.
Mr. Joe Rennie, Envirotrac
Mr. Dan Ruffini, Envirotrac

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SUMMARY OF DETECTION

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
70166059001	**MW-1**					
EPA 8260C/5030C	1,2,4-Trimethylbenzene	582	ug/L	5.0	03/25/21 18:09	
EPA 8260C/5030C	1,3,5-Trimethylbenzene	29.5	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	Ethylbenzene	181	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	Isopropylbenzene (Cumene)	18.5	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	Naphthalene	63.6	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	Xylene (Total)	171	ug/L	3.0	03/24/21 17:03	
EPA 8260C/5030C	m&p-Xylene	116	ug/L	2.0	03/24/21 17:03	
EPA 8260C/5030C	n-Butylbenzene	4.3	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	n-Propylbenzene	25.2	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	o-Xylene	54.7	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	p-Isopropyltoluene	1.2	ug/L	1.0	03/24/21 17:03	
EPA 8260C/5030C	sec-Butylbenzene	4.6	ug/L	1.0	03/24/21 17:03	
70166059002	**MW-6**					
EPA 8260C/5030C	1,2,4-Trimethylbenzene	2.0	ug/L	1.0	03/24/21 17:23	
EPA 8260C/5030C	Isopropylbenzene (Cumene)	5.0	ug/L	1.0	03/24/21 17:23	
EPA 8260C/5030C	Naphthalene	3.1	ug/L	1.0	03/24/21 17:23	
EPA 8260C/5030C	n-Butylbenzene	2.7	ug/L	1.0	03/24/21 17:23	
EPA 8260C/5030C	n-Propylbenzene	8.5	ug/L	1.0	03/24/21 17:23	
EPA 8260C/5030C	sec-Butylbenzene	2.6	ug/L	1.0	03/24/21 17:23	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Speedway Envirotrac (New York)
Date: March 29, 2021

General Information:
2 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Sample: MW-1 **Lab ID: 70166059001** Collected: 03/15/21 12:30 Received: 03/17/21 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,2,4-Trimethylbenzene	**582**	ug/L	5.0	5		03/25/21 18:09	95-63-6	
1,3,5-Trimethylbenzene	**29.5**	ug/L	1.0	1		03/24/21 17:03	108-67-8	
Benzene	**<1.0**	ug/L	1.0	1		03/24/21 17:03	71-43-2	
Ethylbenzene	**181**	ug/L	1.0	1		03/24/21 17:03	100-41-4	
Isopropylbenzene (Cumene)	**18.5**	ug/L	1.0	1		03/24/21 17:03	98-82-8	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		03/24/21 17:03	1634-04-4	
Naphthalene	**63.6**	ug/L	1.0	1		03/24/21 17:03	91-20-3	
Toluene	**<1.0**	ug/L	1.0	1		03/24/21 17:03	108-88-3	
Xylene (Total)	**171**	ug/L	3.0	1		03/24/21 17:03	1330-20-7	
m&p-Xylene	**116**	ug/L	2.0	1		03/24/21 17:03	179601-23-1	
n-Butylbenzene	**4.3**	ug/L	1.0	1		03/24/21 17:03	104-51-8	
n-Propylbenzene	**25.2**	ug/L	1.0	1		03/24/21 17:03	103-65-1	
o-Xylene	**54.7**	ug/L	1.0	1		03/24/21 17:03	95-47-6	
p-Isopropyltoluene	**1.2**	ug/L	1.0	1		03/24/21 17:03	99-87-6	
sec-Butylbenzene	**4.6**	ug/L	1.0	1		03/24/21 17:03	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		03/24/21 17:03	98-06-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-123	1		03/24/21 17:03	17060-07-0	
4-Bromofluorobenzene (S)	92	%	66-119	1		03/24/21 17:03	460-00-4	
Toluene-d8 (S)	93	%	82-121	1		03/24/21 17:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Sample: MW-6 **Lab ID: 70166059002** Collected: 03/15/21 12:50 Received: 03/17/21 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,2,4-Trimethylbenzene	**2.0**	ug/L	1.0	1		03/24/21 17:23	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	108-67-8	
Benzene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	100-41-4	
Isopropylbenzene (Cumene)	**5.0**	ug/L	1.0	1		03/24/21 17:23	98-82-8	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		03/24/21 17:23	1634-04-4	
Naphthalene	**3.1**	ug/L	1.0	1		03/24/21 17:23	91-20-3	
Toluene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/24/21 17:23	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		03/24/21 17:23	179601-23-1	
n-Butylbenzene	**2.7**	ug/L	1.0	1		03/24/21 17:23	104-51-8	
n-Propylbenzene	**8.5**	ug/L	1.0	1		03/24/21 17:23	103-65-1	
o-Xylene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	95-47-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	99-87-6	
sec-Butylbenzene	**2.6**	ug/L	1.0	1		03/24/21 17:23	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		03/24/21 17:23	98-06-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-123	1		03/24/21 17:23	17060-07-0	
4-Bromofluorobenzene (S)	95	%	66-119	1		03/24/21 17:23	460-00-4	
Toluene-d8 (S)	93	%	82-121	1		03/24/21 17:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: SPEEDWAY #7823
Pace Project No.: 70166059

QC Batch: 201237
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70166059001, 70166059002

METHOD BLANK: 990720 Matrix: Water
Associated Lab Samples: 70166059001, 70166059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
Benzene	ug/L	<1.0	1.0	03/24/21 14:39	
Ethylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	03/24/21 14:39	
m&p-Xylene	ug/L	<2.0	2.0	03/24/21 14:39	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	03/24/21 14:39	
n-Butylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
n-Propylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
Naphthalene	ug/L	<1.0	1.0	03/24/21 14:39	
o-Xylene	ug/L	<1.0	1.0	03/24/21 14:39	
p-Isopropyltoluene	ug/L	<1.0	1.0	03/24/21 14:39	
sec-Butylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
tert-Butylbenzene	ug/L	<1.0	1.0	03/24/21 14:39	
Toluene	ug/L	<1.0	1.0	03/24/21 14:39	
Xylene (Total)	ug/L	<3.0	3.0	03/24/21 14:39	
1,2-Dichloroethane-d4 (S)	%	88	70-123	03/24/21 14:39	
4-Bromofluorobenzene (S)	%	95	66-119	03/24/21 14:39	
Toluene-d8 (S)	%	94	82-121	03/24/21 14:39	

LABORATORY CONTROL SAMPLE: 990721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.2	98	72-117	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	69-117	
Benzene	ug/L	50	52.9	106	73-121	
Ethylbenzene	ug/L	50	50.9	102	70-120	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	70-116	
m&p-Xylene	ug/L	100	103	103	73-120	
Methyl-tert-butyl ether	ug/L	50	46.3	93	73-124	
n-Butylbenzene	ug/L	50	49.8	100	66-126	
n-Propylbenzene	ug/L	50	49.3	99	69-119	
Naphthalene	ug/L	50	57.1	114	55-129	
o-Xylene	ug/L	50	50.7	101	74-119	
p-Isopropyltoluene	ug/L	50	49.1	98	70-121	
sec-Butylbenzene	ug/L	50	49.8	100	68-120	
tert-Butylbenzene	ug/L	50	49.4	99	72-115	
Toluene	ug/L	50	52.8	106	77-120	
Xylene (Total)	ug/L	150	154	103	73-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SPEEDWAY #7823
Pace Project No.: 70166059

LABORATORY CONTROL SAMPLE: 990721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			88	70-123	
4-Bromofluorobenzene (S)	%			94	66-119	
Toluene-d8 (S)	%			95	82-121	

MATRIX SPIKE SAMPLE: 992523

Parameter	Units	70166059002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	2.0	50	45.3	87	66-122	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	44.8	90	67-119	
Benzene	ug/L	<1.0	50	49.2	98	74-126	
Ethylbenzene	ug/L	<1.0	50	46.7	93	67-126	
Isopropylbenzene (Cumene)	ug/L	5.0	50	48.8	88	66-120	
m&p-Xylene	ug/L	<2.0	100	93.8	94	68-127	
Methyl-tert-butyl ether	ug/L	<1.0	50	41.6	83	60-127	
n-Butylbenzene	ug/L	2.7	50	46.5	88	65-129	
n-Propylbenzene	ug/L	8.5	50	53.0	89	62-127	
Naphthalene	ug/L	3.1	50	50.1	94	56-129	
o-Xylene	ug/L	<1.0	50	46.0	92	66-129	
p-Isopropyltoluene	ug/L	<1.0	50	43.9	88	66-125	
sec-Butylbenzene	ug/L	2.6	50	46.7	88	66-127	
tert-Butylbenzene	ug/L	<1.0	50	44.6	89	68-121	
Toluene	ug/L	<1.0	50	49.3	99	76-124	
Xylene (Total)	ug/L	<3.0	150	140	93	69-125	
1,2-Dichloroethane-d4 (S)	%				88	70-123	
4-Bromofluorobenzene (S)	%				93	66-119	
Toluene-d8 (S)	%				94	82-121	

SAMPLE DUPLICATE: 992522

Parameter	Units	70166057009 Result	Dup Result	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.5		
1,3,5-Trimethylbenzene	ug/L	1.4	1.6	13	
Benzene	ug/L	1.5	1.5	1	
Ethylbenzene	ug/L	4.0	3.9	3	
Isopropylbenzene (Cumene)	ug/L	53.0	52.6	1	
m&p-Xylene	ug/L	20.5	20.3	1	
Methyl-tert-butyl ether	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	5.1	5.1	0	
n-Propylbenzene	ug/L	67.3	66.7	1	
Naphthalene	ug/L	6.4	7.0	10	
o-Xylene	ug/L	1.1	1.1	6	
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	6.0	6.1	2	
tert-Butylbenzene	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SPEEDWAY #7823
Pace Project No.: 70166059

SAMPLE DUPLICATE: 992522

Parameter	Units	70166057009 Result	Dup Result	RPD	Qualifiers
Toluene	ug/L	4.4	4.3	2	
Xylene (Total)	ug/L	21.6	21.4	1	
1,2-Dichloroethane-d4 (S)	%	88	89		
4-Bromofluorobenzene (S)	%	91	90		
Toluene-d8 (S)	%	92	92		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SPEEDWAY #7823
Pace Project No.: 70166059

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPEEDWAY #7823
Pace Project No.: 70166059

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70166059001	**MW-1**	EPA 8260C/5030C	201237		
70166059002	**MW-6**	EPA 8260C/5030C	201237		

Chain-of-Custody-Record

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210007823	**Facility ID**	2-297747
Address:	2880 Atlantic Ave		
City:	Brooklyn	**State:**	NY
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Mark Stella	****INVOICE TO SPEEDWAY****	
AFE #:	150351	**Work Order #:**	1100686558

COC ID # 00054771

Lab Information

Lab:	Pace Analytical Services (NY)		
Consultant:	EnviroTrac Ltd - Yaphank, NY		
Project Mgr:	Joe Rennie		
Address:			
Phone #:		**Fax #:**	
Sampler:	Matthew Miranda		
Shipped:	Pickup		
Tracking #:	Pace courier		

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-1	03/15/2021 12:30pm	W	2	VOA	HCL	VOC 8260 STARS	8260C	
MW-6	03/15/2021 12:50pm	W	2	VOA	HCL	VOC 8260 STARS	8260C	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by laboratory:	Date	Time
Special Reporting Requirements:			Lab Notes:	Temp	

WO# : 70166059

70166059

Analysis Name: VOC 8260 STARS (Water)

Analysis Description / Method: VOCs 8260 STARS List / 8260C

Container Type / Preservative: VOA / HCL

Analytes: 1,2,4-Trimethylbenzene ug/L, 1,3,5-Trimethylbenzene ug/L, Benzene ug/L, Ethylbenzene ug/L, Isopropylbenzene ug/L, Methyl tert butyl ether ug/L, Naphthalene ug/L, Toluene ug/L, Total Xylenes ug/L, m,p-Xylene ug/L, n-Butylbenzene ug/L, n-Propylbenzene ug/L, o-Xylene ug/L, p-Isopropyltoluene ug/L, sec-Butylbenzene ug/L, tert-Butylbenzene ug/L

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docu

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

WO# : 70166059

PM: JL1 **Due Date: 03/29/21**

CLIENT: SPDWY ENVIRO

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:	
Company:	EnviroTrac Ltd	Report To:	edr@envirotrac.com	Attention:	
Address:	5 Old Dock Road	Copy To:		Company Name:	
	Yaphank, NY 11980			Address:	
Email To:	edr@envirotrac.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	631-924-3001 Fax:	Project Name:	Jerome	Pace Project Manager:	
Requested Due Date/TAT:	Standard	Project Number:	Speedway #7823	Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER ____

Site Location STATE: WY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 STARs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G				3/15/21	1230		2				2						X		
2	MW-6	WT	G				3/15/21	1250		2				2						X		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Matthew Schneider / ETW	03/15/21	1500	Envirotrac Fridge	03/15/21	1500	
	ET Fridge	3/17/21	0900	Cynthia Baker	3/17/21	0900	
	Cynthia Baker	3/17/21	0930	[illegible]	3/17/21	1315	
	[illegible]	3/17/21	1700	[illegible]	3/17	1700	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matthew Schneider

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 03/15/21

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70166059

PM: JL1 **Due Date: 03/29/21**

CLIENT: SPDWY ENVIRO

Client Name: Proj

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 3.4 Cooler Temperature Corrected(°C): 3.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Temperature Blank Present: ☑ Yes ☐ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 3/17/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☐ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.