Ecosystems Strategies, Inc.
24 Davis Avenue, Poughkeepsie, NY 12603
phone 845.452.1658 | fax 845.485.7083 | ecosystemsstrategies.com

January 23, 2013

Ms. Jamie Verrigni
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7016 via e-mail: jlverrig@gw.dec.state.ny.us

RE: Implementation of Corrective Measures Work Plan for the Greyston Bakery Site, located at 104 Alexander Street, City of Yonkers, Westchester County, New York
VCP ID: V00361
ESI File: GY99143.72

Dear Ms. Verrigni:

This Letter Report documents the corrective measures implemented at the Greyston Bakery Site (hereafter referred to as the "Site"), including a summary of detected results for new monitoring well MW-3R, in compliance with the Corrective Measure Work Plan (CMWP), dated October 18, 2013. Complete tabulated laboratory data for all monitoring wells will be provided in the revised Periodic Review Report (PRR).

Ecosystems Strategies, Inc. (ESI) prepared the CMWP on behalf of Greyston Foundation (the Volunteer) to address NYSDEC concerns regarding areas of non-compliance related to the groundwater monitoring network at the Site (letter from Jamie Verrigni, dated September 18, 2013). The areas of non-compliance included the proper decommissioning of a 1-inch monitoring point and MW-3, located upgradient in the northeastern portion of the Site, and the installation, development and sampling of new monitoring well MW-3R.

The CMWP identified the presence of two monitoring wells, MW-3 and an unknown 1-inch PVC pipe. Upon further observation it was determined that MW-3 and 1-inch PVC pipe were the same well. A Selected Site Features Map (Attachment A) displays the location of all monitoring wells at the Site.

DECOMMISSIONING OF MONITORING WELL MW-3

Well decommissioning activities were conducted on December 3, 2013 by ESI and Soil Testing Inc. Monitoring Well MW-3 was opened and screened with a photo-ionization detector (PID). A PID reading of 40 parts per million (ppm) was documented at MW-3. Black dense non-aqueous phase liquid (DNAPL) was observed on the sides and inside MW-3 at approximately 10 feet below surface grade (bsg). NYSDEC was notified of the presence of DNAPL during fieldwork activities. NYSDEC and ESI jointly determined that the sampling of the DNAPL was not necessary at the time.

The well casing of MW-3, located 3 feet southeast from 1-inch PVC, was observed to be noticeably lose from the ground. The well casing and the 1-inch PVC pipe were inspected to determine the extent of the damage to MW-3. The well casing was likely displaced by the operation of heavy equipment over the well with potential damage to the integrity of MW-3. Monitoring well MW-3 was decommissioned following procedures outlined in NYSDEC's *CP-43: Groundwater Monitoring Well Decommissioning Policy* (*CP-43*). The 1-inch PVC pipe was removed a minimum of 5 feet bsg and the ground surface was restored to pre-existing conditions (3 to 4-inch stones). Photographs of well decommissioning activities area presented in Attachment B.

INSTALLATION, DEVELOPMENT AND SAMPLING OF MONITORING WELL MW-3R

Monitoring well MW-3R was installed by Soil Testing Inc. on December 3, 2013. MW-3R was extended to a total depth of 12 feet bsg with a well diameter of 2 inches and a screening interval of 2 to 12 feet bsg (2 feet of screen above the groundwater level). A monitoring well construction log and diagram is provided as Attachment C.

ESI personnel developed monitoring well MW-3R on December 12, 2013. A PID reading of 47 ppm and a depth to groundwater (from the top of the PVC) of 4.25 feet bsg were recorded. Approximately 15 gallons of purged groundwater were generated and containerized for proper disposal during well development activities. Strong petroleum odors, significant amount of suspended solids and dark light non-aqueous phase liquid (LNAPL) foam were observed in the purged groundwater.

ESI personnel sampled monitoring well MW-3R on December 23, 2013. No PID reading was recorded for this sampling event. The depth to groundwater (from the top of the PVC) was recorded as 4.40 feet bsg. Approximately 2 to 3 gallons of purged groundwater were generated and containerized for proper disposal during well sampling activities. Mild petroleum odors and amber LANPL droplets were observed in the purged groundwater.

A groundwater sample (MW-3R) was collected and analyzed for volatile organic compounds (VOCs, USEPA Method 8260) and polycyclic aromatic hydrocarbons (PAHs, USEPA Method 8270). A trip blank sample (TB-12/23/2013) was collected and analyzed for VOCs in accordance with the Site Management Plan (SMP). Samples were submitted to York Analytical Laboratories, Inc. (NYSDOH ELAP #10854) on December 26, 2013.

LABORATORY RESULTS

A summary of detected results for VOCs and PAHs for MW-3 and MW-3R is included as Tables 1 and 2, Attachment D. Six VOCs (1,2,4-trimethylbenzene, benzene, ethylbenzene, isopropylbenezene, naphthalene, and p&m xylenes) were detected at concentrations significantly higher than previous sampling events. Two PAHs (acenaphthene and phenanthrene) were detected at concentrations significantly higher than previous sampling events. A detailed discussion of the laboratory results for MW-3R will be provided in the revised PRR. Laboratory results for samples MW-3R and TB-12/23/2013 are provided as Attachment E.

Subsequent to receiving approval from NYSDEC on the implementation of the CMWP, the revised PRR, incorporating all activities in regard to the CMWP, will be resubmitted to NYSDEC within 14 days.

Should you have any questions please do not hesitate to contact us.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

Paul H. Ciminello
President

PHC/RAM:ndc

cc: Rosaura Andújar-McNeil (ESI)
Michael Brady (Greyston Bakery)
James Candiloro (NYSDEC)
Shelley Weintraub (Greyston Foundation)

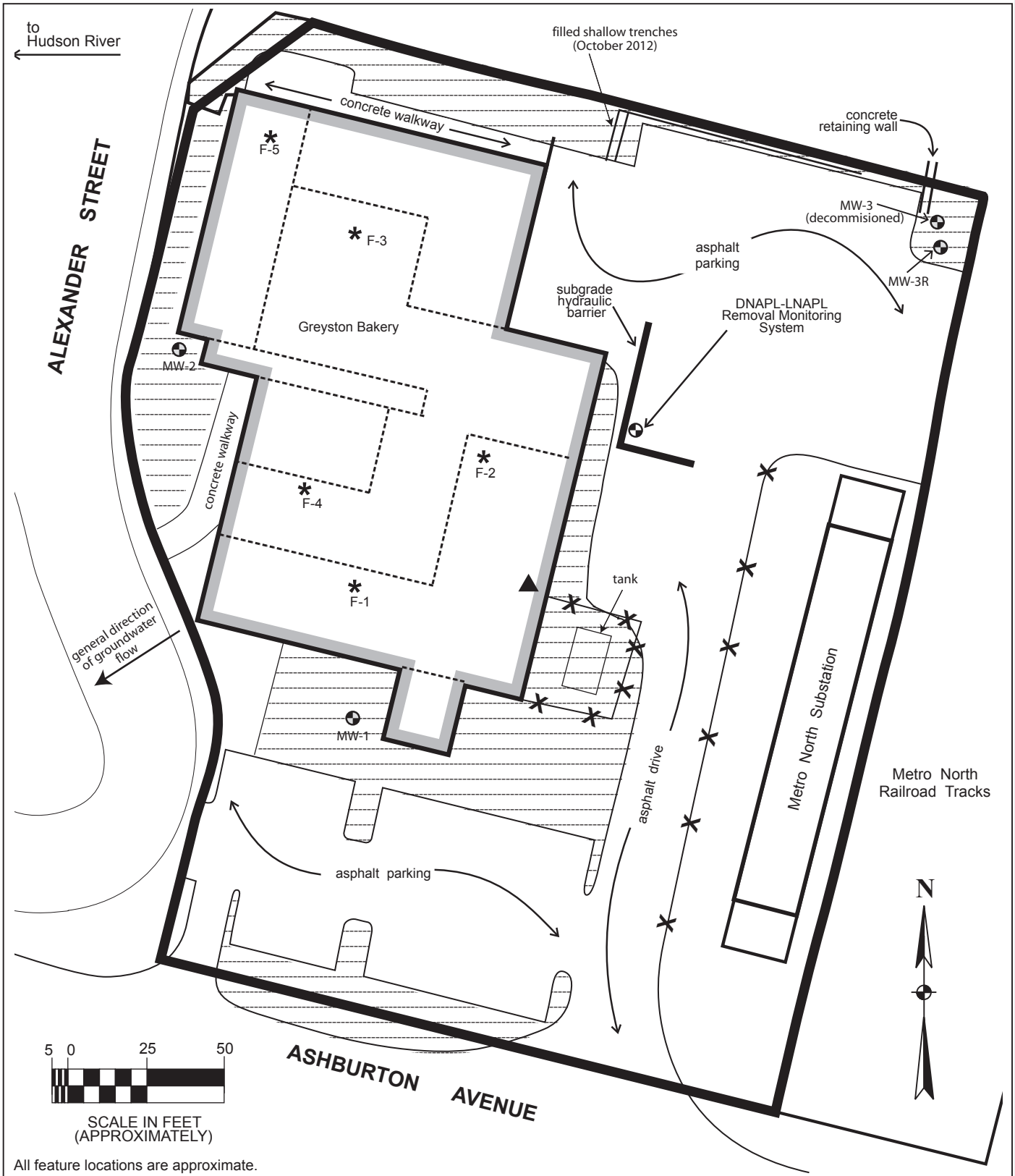
Attachments:

A Selected Site Features Map
B Photographs
C Monitoring Well Construction Log
D Summary of Detected Results – VOCs and PAHs
E Laboratory Results

ATTACHMENT A

Selected Site Features Map

Ecosystems Strategies, Inc.



All feature locations are approximate.
Map based on "Survey" by Roland K. Link, P.L.L.C. (June 17, 1999); and "Site Plan" by Cybul & Cybul A.I.A. Architects.

Selected Site Features Map

104 Alexander Street
(formerly known as 104 Ashburton Ave.)
City of Yonkers
Westchester County, New York

Legend:
- subject property border
- monitoring wells
- VES monitoring point
- VES roof discharge point
- area of GCL barrier
- chain link fence

ESI File: GY99143.72

January 2014

Scale: 1" = 45' (approximately)

Attachment A

ATTACHMENT B

Photographs

PHOTOGRAPHS

1. One-inch PVC pipe (MW-3), located in the northeastern corner of the Site, prior to decommissioning on December 3, 2013.

2. Detached well casing of monitoring well MW-3, located in the northeastern corner of the Site, on December 3, 2013.

PHOTOGRAPHS

3. New monitoring well MW-3R and area of former monitoring well MW-3 (restored to pre-existing conditions) on December 3, 2013.

ATTACHMENT C

Monitoring Well Construction Log

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies	SHEET 1 OF 1 HOLE NO. MW-3R
	PROJECT NO. E54-9591-13	
	PROJECT NAME 104 Alexander Street	BORING LOCATIONS as directed
FOREMAN - DRILLER TP/cMc	LOCATION Yonkers, New York	
INSPECTOR	CASING / SAMPLER / CORE BAR	OFFSET
	TYPE HSA / SS	DATE START 12/3/13
GROUND WATER OBSERVATIONS	SIZE I.D. 4 ¼" / 1 3/8"	DATE FINISH 12/3/13
AT 6 FT AFTER 0 HOURS	HAMMER WT. 140# BIT	SURFACE ELEV.
AT FT AFTER HOURS	HAMMER FALL 30"	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
5		1	ss	24"	1"	6'0"	2	1			l moist		brn FM SAND, lit F gravel, lit silt (fill)
							1	1			v loose		
		2	ss	24"	3"	8'0"	3	4			wet		brn FM SAND, sm F gravel, tr silt (fill / oily product)
							12	18			compact		
		3	ss	24"	4"	10'0"	6	8			wet		SAME
10							12	10			compact		
		4	ss	24"	13"	12'0"	3	3			wet		blk gry FM SAND, sm silt, tr F gravel, tr fabric (garbage),
							4	4			loose		paper material, tr organics
		5	ss	24"	19"	14'0"	4	4			wet		gry blk F-M SAND, lit F gravel, tr ash, silt
							3	4			loose	14'0"	
15													E.O.B. 14'0"
20													
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-3R**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

Phone
(203) 262-9328

Telefax
(203) 264-3414

WHITE PLAINS, N.Y.
(914) 946-4850

SOILTESTING, INC.

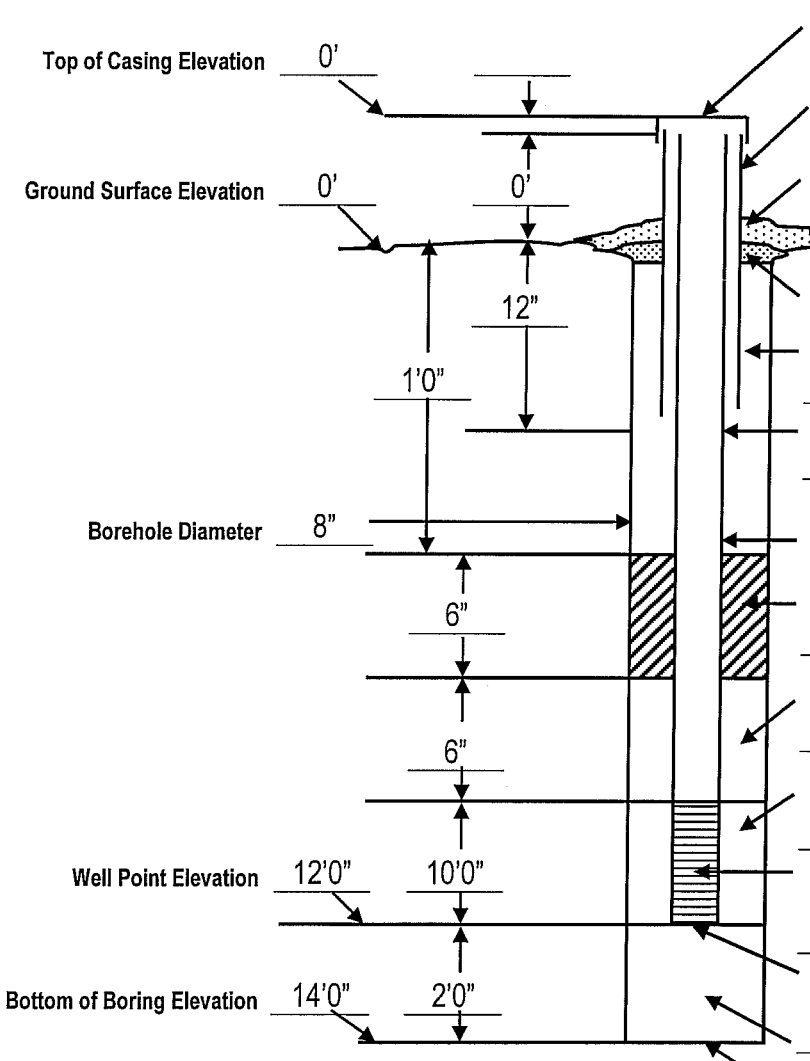
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW3R

JOB #: E54-9591-13



Stick Up Vented Locking Steel Cap ___ Yes X No

Drive/over w/Bolting Cover X Yes ___ No

Mounded Backfill ___ Yes X No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D. 2.067" O.D. 2.375"

Joint Type thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material N/A

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 ½ bags	D/O	1
Slip Cap		Portland Cement		S/U	
Silica Sand	300#				
Powdered Bentonite					

ATTACHMENT D

Summary of Detected Results – VOC and PAHs

Ecosystems Strategies, Inc.

Table 1: Summary of Detected Results for VOCs in Water - ESI File: GY99143.72

All results provided in micrograms per liter (μg/L).

VOCs	Guidance Levels	Sample Identification												
		MW-3												MW-3R
		May-05	Feb-06	May-06	Apr-07	Aug-07	Nov-07	Feb-08	Jun-08	Dec-08	Jun-09	Dec-09	Aug-10	Dec-13
1,2,4-Trimethylbenzene	5	ND	NA	ND	ND	ND	**16**	ND	ND	ND	ND	ND	ND	**34 (J)**
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	NA	ND	ND
Benzene	1	**2**	**590**	**400**	**1,300**	**1,800**	**1,800**	**100**	**172**	**970**	**1,600**	**1,500**	**1,100**	**2,400**
Cyclohexane	NE	NA	6.4	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA
Ethylbenzene	5	ND	**540**	**140**	**240**	**220**	**220**	ND	**20**	**71**	**160**	**120**	**50**	**480**
Isopropylbenzene	5	ND	**110**	**44**	ND	**130**	**130**	**65**	**10**	**65**	**89**	**100**	**68**	**51**
Methylene chloride	5	ND	ND	**21**	ND	ND	ND	ND	ND	ND	ND	NA	**140(B)**	ND
Methyl tert-butyl ether (MTBE)	10	ND	**16**	**13**	ND	**50**	**50**	**34**	**6**	**42**	**29**	**36**	**26**	ND
Methylcyclohexane	NE	NA	30	9.8	NA	ND	ND	ND	NA	NA	ND	NA	ND	NA
Naphthalene	10	**46**	NA	ND	**930**	**530**	**630**	**230**	**48**	**97**	**310**	**240**	**200**	**1,400**
n-Butylbenzene	5	ND	NA	ND	ND	ND	**200**	ND	ND	ND	ND	**110**	ND	ND
n-Propylbenzene	5	ND	NA	ND	ND	ND	**40**	ND	ND	**23**	**27**	**37 (J)**	**25(J)**	ND
o-Xylene	5	ND	**11**	**6.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**35 (J)**
p-&m-Xylenes	5	1	**9.5**	3.9	ND	**320**	ND	ND	ND	**71**	ND	**13 (J)**	**9(J)**	ND
Styrene	5	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Toluene	5	ND	3.4	1.4	ND	ND	ND	ND	2	ND	ND	NA	ND	ND
Total	NE	49	1317.4	639.6	2470	3050	3086	429	262	1339	2215	2106	1444	4331

Notes:

Guidance levels based on NYSDEC Division of Water TOGS 1.1.1 (June 1998) and subsequent NYSDEC Memoranda.
Results in bold and highlighted yellow exceed above-referenced guidance levels.
Results highlighted blue indicate detected concentrations.
J = Estimated concentration
NE = Not Established
NA = Not Analyzed
ND = Not Detected

Table 2: Summary of Detected Results for PAHs in Water - ESI File: GY99143.72

All results provided in micrograms per liter (µg/L).

PAHs	Guidance Levels	Sample Identification												
		MW-3												MW-3R
		May-05	Feb-06	May-06	Apr-07	Aug-07	Nov-07	Feb-08	Jun-08	Dec-08	Jun-09	Dec-09	Aug-10	Dec-13
2-Methylnaphthalene	**NE**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	218
Acenaphthene	**20**	ND	**90**	7	ND	ND	ND	ND	ND	5	ND	5 (J)	8	**75.0 (J)**
Acenaphthylene	**NE**	ND	53	2	ND	ND	ND	26	ND	ND	ND	ND	ND	ND
Anthracene	**50**	ND	**210**	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	**0.002**	ND	**340**	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	**NE**	ND	340	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	**0.002**	ND	**370**	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	**NE**	ND	110	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	**0.002**	ND	**110**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**0.002**	ND	**280**	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	**NE**	ND	15 (J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**50**	ND	**560**	15	ND	ND	ND	ND	ND	ND	ND	ND	4(J)	ND
Fluorene	**50**	ND	**220**	9	ND	ND	ND	ND	ND	6	ND	6	9	ND
Indeno(1,2,3-cd)pyrene	**0.002**	ND	**150**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**10**	**13**	**3,900**	7	**350**	**280**	**240**	ND	**120**	**26**	**170**	**68**	**66**	**1,460**
Phenanthrene	**50**	ND	**780**	16	ND	ND	ND	ND	ND	ND	ND	4 (J)	5(J)	ND
Pyrene	**50**	ND	**560**	24	ND	ND	ND	ND	ND	ND	ND	ND	3(J)	ND
Totals	**NE**	13	8073	143	350	280	240	26	120	37	170	74	83	1460

Notes:

Guidance levels based on NYSDEC Division of Water TOGS 1.1.1 (June 1998) and subsequent NYSDEC Memoranda.

Results in bold and highlighted yellow exceed above-referenced guidance levels.

Results highlighted blue indicate detected concentrations.

J = Estimated concentration

NA = Not Analyzed

NE = Not Established

ND = Not Detected

ATTACHMENT E

Laboratory Results

Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Rosaura Andujar-McNeil

Report Date: 01/03/2014
Client Project ID: GY99143.72
York Project (SDG) No.: 13L0853

Report Date: 01/03/2014
Client Project ID: GY99143.72
York Project (SDG) No.: 13L0853

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Rosaura Andujar-McNeil

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 26, 2013 and listed below. The project was identified as your project: **GY99143.72**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13L0853-01	MW-3R	Water	12/23/2013	12/26/2013
13L0853-02	TB-12/23/2013	Water	12/23/2013	12/26/2013

General Notes for York Project (SDG) No.: 13L0853

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 01/03/2014

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: MW-3R

York Sample ID: 13L0853-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 3:00 pm	12/26/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
95-63-6	1,2,4-Trimethylbenzene	**34**	J	ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
95-49-8	2-Chlorotoluene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
106-43-4	4-Chlorotoluene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
67-64-1	Acetone	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
71-43-2	Benzene	**2400**		ug/L	120	250	50	EPA 8260C	12/27/2013 10:16	01/03/2014 00:10	SS
108-86-1	Bromobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
74-97-5	Bromochloromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-27-4	Bromodichloromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS

Sample Information

Client Sample ID: MW-3R

York Sample ID: 13L0853-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 3:00 pm	12/26/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
74-83-9	Bromomethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-00-3	Chloroethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
74-87-3	Chloromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
124-48-1	Dibromochloromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
74-95-3	Dibromomethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
100-41-4	Ethyl Benzene	**480**		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
98-82-8	Isopropylbenzene	**51**		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-09-2	Methylene chloride	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
91-20-3	Naphthalene	**1400**		ug/L	120	250	50	EPA 8260C	12/27/2013 10:16	01/03/2014 00:10	SS
104-51-8	n-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
103-65-1	n-Propylbenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
95-47-6	o-Xylene	**35**	J	ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
135-98-8	sec-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
100-42-5	Styrene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
98-06-6	tert-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
108-88-3	Toluene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS

Sample Information

Client Sample ID: **MW-3R** **York Sample ID:** **13L0853-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 3:00 pm	12/26/2013

Volatile Organics, 8260 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
1330-20-7	Xylenes, Total	ND		ug/L	75	150	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS
108-05-4	Vinyl acetate	ND		ug/L	25	50	10	EPA 8260C	12/27/2013 10:16	12/27/2013 18:15	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*102 %*	*78-122*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*	*87-112*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*91-110*

Semi-Volatiles, PAH Target List

Log-in Notes: **Sample Notes:** **EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	**75.0**	J	ug/L	44.2	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
208-96-8	Acenaphthylene	ND		ug/L	43.5	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
120-12-7	Anthracene	ND		ug/L	29.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	32.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	32.5	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	35.2	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	42.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	45.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
218-01-9	Chrysene	ND		ug/L	36.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	39.0	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
206-44-0	Fluoranthene	ND		ug/L	31.0	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
86-73-7	Fluorene	ND		ug/L	45.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	42.5	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
91-57-6	2-Methylnaphthalene	**218**		ug/L	69.0	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
91-20-3	Naphthalene	**1460**		ug/L	49.8	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
85-01-8	Phenanthrene	ND		ug/L	34.2	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR
129-00-0	Pyrene	ND		ug/L	43.2	125	25	EPA 625/8270D	12/30/2013 13:00	01/02/2014 12:42	SR

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: Nitrobenzene-d5*	*33.4 %*	*12-112*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*36.5 %*	*14-101*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.4 %*	*10-151*

Sample Information

Client Sample ID: TB-12/23/2013 **York Sample ID:** 13L0853-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 12:00 am	12/26/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
67-64-1	Acetone	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS

Sample Information

Client Sample ID: TB-12/23/2013 **York Sample ID:** 13L0853-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 12:00 am	12/26/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
91-20-3	Naphthalene	**3.4**	J	ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS

Sample Information

Client Sample ID: TB-12/23/2013 **York Sample ID:** 13L0853-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13L0853	GY99143.72	Water	December 23, 2013 12:00 am	12/26/2013

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	12/27/2013 10:16	12/27/2013 18:50	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.2 %*	*78-122*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*87-112*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*91-110*

Analytical Batch Summary

Batch ID: BA40059 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
13L0853-01RE1	MW-3R	01/02/14
BA40059-BLK1	Blank	01/02/14
BA40059-BS1	LCS	01/02/14
BA40059-BSD1	LCS Dup	01/02/14

Batch ID: BL31331 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
13L0853-01	MW-3R	12/27/13
13L0853-02	TB-12/23/2013	12/27/13
BL31331-BLK1	Blank	12/27/13
BL31331-BS1	LCS	12/27/13
BL31331-BSD1	LCS Dup	12/27/13

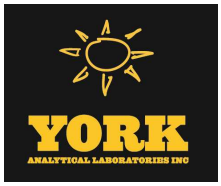
Batch ID: BL31362 **Preparation Method:** EPA 3510C **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
13L0853-01	MW-3R	12/30/13
BL31362-BLK1	Blank	12/30/13
BL31362-BLK2	Blank	12/30/13
BL31362-BS1	LCS	12/30/13
BL31362-BSD1	LCS Dup	12/30/13

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA40059 - EPA 5030B											
Blank (BA40059-BLK1)											Prepared & Analyzed: 01/02/2014
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	2.6	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	5.0	"								
Naphthalene	ND	5.0	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA40059 - EPA 5030B											
Blank (BA40059-BLK1)								Prepared & Analyzed: 01/02/2014			
p- & m- Xylenes	ND	10	ug/L								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*49.8*		*"*	*50.0*		*99.7*	*78-122*				
Surrogate: p-Bromofluorobenzene	*56.4*		*"*	*50.0*		*113*	*87-112*				
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*96.9*	*91-110*				
LCS (BA40059-BS1)								Prepared & Analyzed: 01/02/2014			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.5	90-116				
1,1,1-Trichloroethane	51		"	50.0		103	83-125				
1,1,2,2-Tetrachloroethane	44		"	50.0		88.1	84-122				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	66-141				
1,1,2-Trichloroethane	50		"	50.0		99.8	83-116				
1,1-Dichloroethane	53		"	50.0		106	82-121				
1,1-Dichloroethylene	54		"	50.0		108	59-135				
1,1-Dichloropropylene	52		"	50.0		103	81-112				
1,2,3-Trichlorobenzene	45		"	50.0		89.2	74-132				
1,2,3-Trichloropropane	47		"	50.0		93.2	83-118				
1,2,4-Trichlorobenzene	45		"	50.0		90.6	72-133				
1,2,4-Trimethylbenzene	54		"	50.0		107	82-119				
1,2-Dibromo-3-chloropropane	39		"	50.0		78.9	69-134				
1,2-Dibromoethane	49		"	50.0		97.7	85-118				
1,2-Dichlorobenzene	48		"	50.0		95.4	87-116				
1,2-Dichloroethane	51		"	50.0		101	79-125				
1,2-Dichloropropane	49		"	50.0		97.8	82-119				
1,3,5-Trimethylbenzene	49		"	50.0		98.3	84-120				
1,3-Dichlorobenzene	47		"	50.0		94.4	85-116				
1,3-Dichloropropane	50		"	50.0		99.1	86-114				
1,4-Dichlorobenzene	49		"	50.0		98.3	84-116				
2,2-Dichloropropane	51		"	50.0		102	56-138				
2-Butanone	45		"	50.0		90.1	59-127				
2-Chlorotoluene	46		"	50.0		91.8	82-117				
4-Chlorotoluene	49		"	50.0		97.1	84-118				
Acetone	45		"	50.0		89.6	30-112				
Benzene	52		"	50.0		105	88-113				
Bromobenzene	51		"	50.0		102	85-117				
Bromochloromethane	53		"	50.0		105	80-120				
Bromodichloromethane	51		"	50.0		101	87-122				
Bromoform	45		"	50.0		90.7	83-127				
Bromomethane	46		"	50.0		91.5	36-135				
Carbon tetrachloride	51		"	50.0		102	82-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA40059 - EPA 5030B											
LCS (BA40059-BS1)								Prepared & Analyzed: 01/02/2014			
Chlorobenzene	50		ug/L	50.0		99.4	90-111				
Chloroethane	53		"	50.0		107	60-132				
Chloroform	53		"	50.0		107	89-116				
Chloromethane	49		"	50.0		97.4	39-131				
cis-1,2-Dichloroethylene	52		"	50.0		104	90-112				
cis-1,3-Dichloropropylene	49		"	50.0		98.3	89-124				
Dibromochloromethane	45		"	50.0		90.7	82-132				
Dibromomethane	51		"	50.0		101	83-124				
Dichlorodifluoromethane	54		"	50.0		108	10-143				
Ethyl Benzene	48		"	50.0		96.8	91-117				
Hexachlorobutadiene	45		"	50.0		90.8	83-129				
Isopropylbenzene	49		"	50.0		98.8	82-122				
Methyl tert-butyl ether (MTBE)	52		"	50.0		103	59-135				
Methylene chloride	52		"	50.0		104	51-136				
Naphthalene	41		"	50.0		82.6	61-147				
n-Butylbenzene	53		"	50.0		105	79-122				
n-Propylbenzene	51		"	50.0		102	80-123				
o-Xylene	49		"	50.0		98.6	91-110				
p- & m- Xylenes	98		"	100		97.9	86-118				
p-Isopropyltoluene	53		"	50.0		107	83-125				
sec-Butylbenzene	52		"	50.0		104	82-127				
Styrene	50		"	50.0		101	88-121				
tert-Butylbenzene	50		"	50.0		100	70-130				
Tetrachloroethylene	52		"	50.0		103	67-138				
Toluene	49		"	50.0		98.6	88-113				
trans-1,2-Dichloroethylene	53		"	50.0		106	73-123				
trans-1,3-Dichloropropylene	48		"	50.0		96.9	85-123				
Trichloroethylene	52		"	50.0		103	83-120				
Trichlorofluoromethane	51		"	50.0		101	62-138				
Vinyl Chloride	51		"	50.0		102	49-127				
Vinyl acetate	50		"	50.0		100	21-90	High Bias			
Surrogate: 1,2-Dichloroethane-d4	*51.4*		*"*	*50.0*		*103*	*78-122*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.5*	*87-112*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.7*	*91-110*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA40059 - EPA 5030B											
LCS Dup (BA40059-BSD1)								Prepared & Analyzed: 01/02/2014			
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.1	90-116		1.74	30	
1,1,1-Trichloroethane	54		"	50.0		107	83-125		4.15	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		94.1	84-122		6.50	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	66-141		3.36	30	
1,1,2-Trichloroethane	50		"	50.0		99.9	83-116		0.120	30	
1,1-Dichloroethane	54		"	50.0		109	82-121		2.24	30	
1,1-Dichloroethylene	53		"	50.0		106	59-135		2.24	30	
1,1-Dichloropropylene	53		"	50.0		106	81-112		2.81	30	
1,2,3-Trichlorobenzene	50		"	50.0		100	74-132		11.8	30	
1,2,3-Trichloropropane	45		"	50.0		90.7	83-118		2.63	30	
1,2,4-Trichlorobenzene	51		"	50.0		101	72-133		11.1	30	
1,2,4-Trimethylbenzene	54		"	50.0		107	82-119		0.280	30	
1,2-Dibromo-3-chloropropane	45		"	50.0		90.9	69-134		14.2	30	
1,2-Dibromoethane	51		"	50.0		102	85-118		3.91	30	
1,2-Dichlorobenzene	49		"	50.0		97.2	87-116		1.93	30	
1,2-Dichloroethane	53		"	50.0		106	79-125		4.02	30	
1,2-Dichloropropane	49		"	50.0		98.8	82-119		0.997	30	
1,3,5-Trimethylbenzene	49		"	50.0		98.6	84-120		0.264	30	
1,3-Dichlorobenzene	49		"	50.0		98.7	85-116		4.37	30	
1,3-Dichloropropane	51		"	50.0		102	86-114		3.22	30	
1,4-Dichlorobenzene	49		"	50.0		98.4	84-116		0.0813	30	
2,2-Dichloropropane	51		"	50.0		102	56-138		0.295	30	
2-Butanone	46		"	50.0		92.7	59-127		2.85	30	
2-Chlorotoluene	47		"	50.0		93.5	82-117		1.88	30	
4-Chlorotoluene	48		"	50.0		96.6	84-118		0.558	30	
Acetone	43		"	50.0		85.5	30-112		4.73	30	
Benzene	55		"	50.0		110	88-113		4.65	30	
Bromobenzene	52		"	50.0		104	85-117		1.77	30	
Bromochloromethane	54		"	50.0		108	80-120		2.94	30	
Bromodichloromethane	51		"	50.0		102	87-122		0.946	30	
Bromoform	46		"	50.0		92.8	83-127		2.33	30	
Bromomethane	46		"	50.0		91.7	36-135		0.284	30	
Carbon tetrachloride	53		"	50.0		105	82-128		2.51	30	
Chlorobenzene	50		"	50.0		101	90-111		1.26	30	
Chloroethane	54		"	50.0		108	60-132		1.73	30	
Chloroform	53		"	50.0		105	89-116		1.70	30	
Chloromethane	47		"	50.0		93.2	39-131		4.43	30	
cis-1,2-Dichloroethylene	51		"	50.0		103	90-112		0.931	30	
cis-1,3-Dichloropropylene	52		"	50.0		103	89-124		4.96	30	
Dibromochloromethane	40		"	50.0		79.8	82-132	Low Bias	12.8	30	
Dibromomethane	51		"	50.0		102	83-124		0.845	30	
Dichlorodifluoromethane	53		"	50.0		105	10-143		2.68	30	
Ethyl Benzene	49		"	50.0		97.8	91-117		1.01	30	
Hexachlorobutadiene	47		"	50.0		93.2	83-129		2.67	30	
Isopropylbenzene	49		"	50.0		98.9	82-122		0.0405	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		105	59-135		1.85	30	
Methylene chloride	53		"	50.0		105	51-136		1.47	30	
Naphthalene	49		"	50.0		97.8	61-147		16.9	30	
n-Butylbenzene	54		"	50.0		109	79-122		2.86	30	
n-Propylbenzene	51		"	50.0		101	80-123		1.00	30	
o-Xylene	50		"	50.0		100	91-110		1.75	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

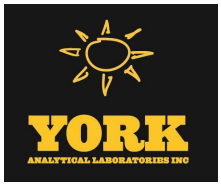
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA40059 - EPA 5030B											
LCS Dup (BA40059-BSD1)								Prepared & Analyzed: 01/02/2014			
p- & m- Xylenes	100		ug/L	100		100	86-118		2.43	30	
p-Isopropyltoluene	54		"	50.0		108	83-125		1.02	30	
sec-Butylbenzene	51		"	50.0		103	82-127		1.04	30	
Styrene	52		"	50.0		104	88-121		3.36	30	
tert-Butylbenzene	50		"	50.0		100	70-130		0.0200	30	
Tetrachloroethylene	52		"	50.0		103	67-138		0.0581	30	
Toluene	50		"	50.0		101	88-113		1.99	30	
trans-1,2-Dichloroethylene	54		"	50.0		109	73-123		2.66	30	
trans-1,3-Dichloropropylene	50		"	50.0		99.3	85-123		2.45	30	
Trichloroethylene	53		"	50.0		106	83-120		2.30	30	
Trichlorofluoromethane	51		"	50.0		101	62-138		0.316	30	
Vinyl Chloride	52		"	50.0		105	49-127		2.79	30	
Vinyl acetate	52		"	50.0		104	21-90	High Bias	3.06	30	
Surrogate: 1,2-Dichloroethane-d4	*50.8*		*"*	*50.0*		*102*	*78-122*				
Surrogate: p-Bromofluorobenzene	*49.6*		*"*	*50.0*		*99.2*	*87-112*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.7*	*91-110*				
Batch BL31331 - EPA 5030B											
Blank (BL31331-BLK1)								Prepared & Analyzed: 12/27/2013			
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31331 - EPA 5030B											
Blank (BL31331-BLK1)											
Prepared & Analyzed: 12/27/2013											
Carbon tetrachloride	ND	5.0	ug/L								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	5.0	"								
Naphthalene	ND	5.0	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.3*		*"*	*50.0*		*94.5*	*78-122*				
Surrogate: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*87-112*				
Surrogate: Toluene-d8	*50.9*		*"*	*50.0*		*102*	*91-110*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31331 - EPA 5030B											
LCS (BL31331-BS1)								Prepared & Analyzed: 12/27/2013			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.0	90-116				
1,1,1-Trichloroethane	45		"	50.0		89.4	83-125				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.7	84-122				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.4	66-141				
1,1,2-Trichloroethane	48		"	50.0		95.7	83-116				
1,1-Dichloroethane	48		"	50.0		97.0	82-121				
1,1-Dichloroethylene	47		"	50.0		94.5	59-135				
1,1-Dichloropropylene	47		"	50.0		93.4	81-112				
1,2,3-Trichlorobenzene	49		"	50.0		98.3	74-132				
1,2,3-Trichloropropane	51		"	50.0		102	83-118				
1,2,4-Trichlorobenzene	50		"	50.0		101	72-133				
1,2,4-Trimethylbenzene	50		"	50.0		99.3	82-119				
1,2-Dibromo-3-chloropropane	50		"	50.0		101	69-134				
1,2-Dibromoethane	48		"	50.0		95.8	85-118				
1,2-Dichlorobenzene	48		"	50.0		96.8	87-116				
1,2-Dichloroethane	43		"	50.0		86.8	79-125				
1,2-Dichloropropane	51		"	50.0		102	82-119				
1,3,5-Trimethylbenzene	53		"	50.0		107	84-120				
1,3-Dichlorobenzene	48		"	50.0		95.6	85-116				
1,3-Dichloropropane	48		"	50.0		96.3	86-114				
1,4-Dichlorobenzene	51		"	50.0		103	84-116				
2,2-Dichloropropane	46		"	50.0		91.1	56-138				
2-Butanone	44		"	50.0		88.5	59-127				
2-Chlorotoluene	51		"	50.0		102	82-117				
4-Chlorotoluene	53		"	50.0		107	84-118				
Acetone	44		"	50.0		88.9	30-112				
Benzene	47		"	50.0		93.7	88-113				
Bromobenzene	51		"	50.0		102	85-117				
Bromochloromethane	43		"	50.0		85.1	80-120				
Bromodichloromethane	47		"	50.0		94.5	87-122				
Bromoform	50		"	50.0		99.9	83-127				
Bromomethane	50		"	50.0		100	36-135				
Carbon tetrachloride	46		"	50.0		91.2	82-128				
Chlorobenzene	49		"	50.0		98.6	90-111				
Chloroethane	51		"	50.0		101	60-132				
Chloroform	43		"	50.0		85.1	89-116	Low Bias			
Chloromethane	48		"	50.0		96.1	39-131				
cis-1,2-Dichloroethylene	45		"	50.0		90.8	90-112				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	89-124				
Dibromochloromethane	48		"	50.0		96.3	82-132				
Dibromomethane	46		"	50.0		92.2	83-124				
Dichlorodifluoromethane	53		"	50.0		105	10-143				
Ethyl Benzene	47		"	50.0		93.9	91-117				
Hexachlorobutadiene	50		"	50.0		101	83-129				
Isopropylbenzene	53		"	50.0		106	82-122				
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.0	59-135				
Methylene chloride	45		"	50.0		90.2	51-136				
Naphthalene	48		"	50.0		96.8	61-147				
n-Butylbenzene	51		"	50.0		102	79-122				
n-Propylbenzene	52		"	50.0		103	80-123				
o-Xylene	47		"	50.0		94.8	91-110				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31331 - EPA 5030B											
LCS (BL31331-BS1)							Prepared & Analyzed: 12/27/2013				
p- & m- Xylenes	92		ug/L	100		91.8	86-118				
p-Isopropyltoluene	51		"	50.0		102	83-125				
sec-Butylbenzene	53		"	50.0		106	82-127				
Styrene	48		"	50.0		95.8	88-121				
tert-Butylbenzene	53		"	50.0		106	70-130				
Tetrachloroethylene	48		"	50.0		96.2	67-138				
Toluene	47		"	50.0		94.4	88-113				
trans-1,2-Dichloroethylene	48		"	50.0		95.7	73-123				
trans-1,3-Dichloropropylene	48		"	50.0		95.3	85-123				
Trichloroethylene	49		"	50.0		98.2	83-120				
Trichlorofluoromethane	48		"	50.0		96.1	62-138				
Vinyl Chloride	54		"	50.0		108	49-127				
Vinyl acetate	47		"	50.0		93.4	21-90	High Bias			
Surrogate: 1,2-Dichloroethane-d4	*44.9*		*"*	*50.0*		*89.8*	*78-122*				
Surrogate: p-Bromofluorobenzene	*54.0*		*"*	*50.0*		*108*	*87-112*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*91-110*				
LCS Dup (BL31331-BSD1)							Prepared & Analyzed: 12/27/2013				
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		91.8	90-116		0.261	30	
1,1,1-Trichloroethane	47		"	50.0		93.8	83-125		4.78	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		94.6	84-122		2.26	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.3	66-141		6.32	30	
1,1,2-Trichloroethane	46		"	50.0		92.2	83-116		3.79	30	
1,1-Dichloroethane	49		"	50.0		98.3	82-121		1.35	30	
1,1-Dichloroethylene	48		"	50.0		96.4	59-135		1.91	30	
1,1-Dichloropropylene	48		"	50.0		95.4	81-112		2.10	30	
1,2,3-Trichlorobenzene	51		"	50.0		101	74-132		2.91	30	
1,2,3-Trichloropropane	46		"	50.0		91.9	83-118		10.7	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	72-133		1.76	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	82-119		3.17	30	
1,2-Dibromo-3-chloropropane	49		"	50.0		97.2	69-134		3.80	30	
1,2-Dibromoethane	46		"	50.0		92.3	85-118		3.72	30	
1,2-Dichlorobenzene	49		"	50.0		98.3	87-116		1.60	30	
1,2-Dichloroethane	44		"	50.0		87.7	79-125		1.05	30	
1,2-Dichloropropane	50		"	50.0		99.1	82-119		3.37	30	
1,3,5-Trimethylbenzene	52		"	50.0		104	84-120		3.17	30	
1,3-Dichlorobenzene	49		"	50.0		98.8	85-116		3.37	30	
1,3-Dichloropropane	47		"	50.0		94.6	86-114		1.78	30	
1,4-Dichlorobenzene	52		"	50.0		103	84-116		0.854	30	
2,2-Dichloropropane	48		"	50.0		95.4	56-138		4.68	30	
2-Butanone	44		"	50.0		87.0	59-127		1.62	30	
2-Chlorotoluene	51		"	50.0		103	82-117		0.861	30	
4-Chlorotoluene	54		"	50.0		108	84-118		0.578	30	
Acetone	47		"	50.0		93.9	30-112		5.43	30	
Benzene	48		"	50.0		95.4	88-113		1.82	30	
Bromobenzene	50		"	50.0		99.7	85-117		2.52	30	
Bromochloromethane	43		"	50.0		86.7	80-120		1.86	30	
Bromodichloromethane	46		"	50.0		91.6	87-122		3.07	30	
Bromoform	47		"	50.0		94.8	83-127		5.30	30	
Bromomethane	52		"	50.0		105	36-135		4.78	30	
Carbon tetrachloride	47		"	50.0		93.9	82-128		2.90	30	
Chlorobenzene	49		"	50.0		98.4	90-111		0.162	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31331 - EPA 5030B											
LCS Dup (BL31331-BSD1)								Prepared & Analyzed: 12/27/2013			
Chloroethane	52		ug/L	50.0		104	60-132		2.90	30	
Chloroform	45		"	50.0		90.3	89-116		5.93	30	
Chloromethane	51		"	50.0		102	39-131		6.04	30	
cis-1,2-Dichloroethylene	47		"	50.0		93.7	90-112		3.21	30	
cis-1,3-Dichloropropylene	48		"	50.0		96.2	89-124		1.85	30	
Dibromochloromethane	47		"	50.0		93.2	82-132		3.27	30	
Dibromomethane	45		"	50.0		89.7	83-124		2.73	30	
Dichlorodifluoromethane	54		"	50.0		107	10-143		1.94	30	
Ethyl Benzene	48		"	50.0		95.0	91-117		1.12	30	
Hexachlorobutadiene	51		"	50.0		102	83-129		1.06	30	
Isopropylbenzene	53		"	50.0		105	82-122		0.984	30	
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.3	59-135		0.355	30	
Methylene chloride	46		"	50.0		92.2	51-136		2.19	30	
Naphthalene	49		"	50.0		98.3	61-147		1.56	30	
n-Butylbenzene	52		"	50.0		103	79-122		0.917	30	
n-Propylbenzene	51		"	50.0		101	80-123		1.96	30	
o-Xylene	47		"	50.0		94.8	91-110		0.00	30	
p- & m- Xylenes	95		"	100		94.9	86-118		3.37	30	
p-Isopropyltoluene	53		"	50.0		105	83-125		3.37	30	
sec-Butylbenzene	55		"	50.0		109	82-127		2.97	30	
Styrene	49		"	50.0		97.4	88-121		1.66	30	
tert-Butylbenzene	52		"	50.0		104	70-130		2.07	30	
Tetrachloroethylene	47		"	50.0		94.8	67-138		1.44	30	
Toluene	47		"	50.0		93.0	88-113		1.49	30	
trans-1,2-Dichloroethylene	48		"	50.0		95.8	73-123		0.104	30	
trans-1,3-Dichloropropylene	48		"	50.0		95.7	85-123		0.377	30	
Trichloroethylene	48		"	50.0		95.2	83-120		3.06	30	
Trichlorofluoromethane	49		"	50.0		98.5	62-138		2.49	30	
Vinyl Chloride	53		"	50.0		105	49-127		2.05	30	
Vinyl acetate	45		"	50.0		90.5	21-90	High Bias	3.16	30	
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*"*	*50.0*		*90.4*	*78-122*				
Surrogate: p-Bromofluorobenzene	*49.9*		*"*	*50.0*		*99.8*	*87-112*				
Surrogate: Toluene-d8	*48.3*		*"*	*50.0*		*96.6*	*91-110*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31362 - EPA 3510C											
Blank (BL31362-BLK1)									Prepared & Analyzed: 12/30/2013		
Acenaphthene	ND	5.00	ug/L								
Acenaphthylene	ND	5.00	"								
Anthracene	ND	5.00	"								
Benzo(a)anthracene	ND	5.00	"								
Benzo(a)pyrene	ND	5.00	"								
Benzo(b)fluoranthene	ND	5.00	"								
Benzo(g,h,i)perylene	ND	5.00	"								
Benzo(k)fluoranthene	ND	5.00	"								
Chrysene	ND	5.00	"								
Dibenzo(a,h)anthracene	ND	5.00	"								
Fluoranthene	ND	5.00	"								
Fluorene	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
Naphthalene	ND	5.00	"								
Phenanthrene	ND	5.00	"								
Pyrene	ND	5.00	"								
Surrogate: Nitrobenzene-d5	*37.0*		*"*	*50.2*		*73.7*	*12-112*				
Surrogate: 2-Fluorobiphenyl	*26.9*		*"*	*50.0*		*53.7*	*14-101*				
Surrogate: Terphenyl-d14	*36.3*		*"*	*50.1*		*72.5*	*10-151*				
Blank (BL31362-BLK2)									Prepared & Analyzed: 12/30/2013		
Acenaphthene	ND	6.45	ug/L								
Acenaphthylene	ND	6.45	"								
Anthracene	ND	6.45	"								
Benzo(a)anthracene	ND	6.45	"								
Benzo(a)pyrene	ND	6.45	"								
Benzo(b)fluoranthene	ND	6.45	"								
Benzo(g,h,i)perylene	ND	6.45	"								
Benzo(k)fluoranthene	ND	6.45	"								
Chrysene	ND	6.45	"								
Dibenzo(a,h)anthracene	ND	6.45	"								
Fluoranthene	ND	6.45	"								
Fluorene	ND	6.45	"								
Indeno(1,2,3-cd)pyrene	ND	6.45	"								
2-Methylnaphthalene	ND	6.45	"								
Naphthalene	ND	6.45	"								
Phenanthrene	ND	6.45	"								
Pyrene	ND	6.45	"								
Surrogate: Nitrobenzene-d5	*42.1*		*"*	*64.8*		*64.9*	*12-112*				
Surrogate: 2-Fluorobiphenyl	*31.5*		*"*	*64.5*		*48.9*	*14-101*				
Surrogate: Terphenyl-d14	*39.7*		*"*	*64.6*		*61.4*	*10-151*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31362 - EPA 3510C											
LCS (BL31362-BS1)							Prepared & Analyzed: 12/30/2013				
Acenaphthene	31.6	5.00	ug/L	50.0		63.3	31-101				
Acenaphthylene	30.7	5.00	"	50.0		61.5	29-98				
Anthracene	30.5	5.00	"	50.0		61.1	24-108				
Benzo(a)anthracene	35.8	5.00	"	50.0		71.6	28-117				
Benzo(a)pyrene	39.7	5.00	"	50.0		79.4	24-131				
Benzo(b)fluoranthene	40.7	5.00	"	50.0		81.3	11-145				
Benzo(g,h,i)perylene	28.7	5.00	"	50.0		57.5	10-110				
Benzo(k)fluoranthene	43.5	5.00	"	50.0		86.9	10-161				
Chrysene	32.7	5.00	"	50.0		65.4	26-112				
Dibenzo(a,h)anthracene	30.3	5.00	"	50.0		60.6	12-104				
Fluoranthene	31.4	5.00	"	50.0		62.9	27-110				
Fluorene	32.4	5.00	"	50.0		64.8	32-107				
Indeno(1,2,3-cd)pyrene	31.8	5.00	"	50.0		63.6	10-107				
2-Methylnaphthalene	32.7	5.00	"	50.0		65.4	27-97				
Naphthalene	27.7	5.00	"	50.0		55.4	27-95				
Phenanthrene	31.7	5.00	"	50.0		63.4	26-109				
Pyrene	34.1	5.00	"	50.0		68.1	23-126				
Surrogate: Nitrobenzene-d5	*32.6*		*"*	*50.2*		*64.9*	*12-112*				
Surrogate: 2-Fluorobiphenyl	*27.3*		*"*	*50.0*		*54.6*	*14-101*				
Surrogate: Terphenyl-d14	*33.2*		*"*	*50.1*		*66.2*	*10-151*				
LCS Dup (BL31362-BSD1)							Prepared & Analyzed: 12/30/2013				
Acenaphthene	33.3	5.00	ug/L	50.0		66.6	31-101		5.08	20	
Acenaphthylene	31.7	5.00	"	50.0		63.4	29-98		3.14	20	
Anthracene	31.3	5.00	"	50.0		62.6	24-108		2.46	20	
Benzo(a)anthracene	37.9	5.00	"	50.0		75.8	28-117		5.78	20	
Benzo(a)pyrene	40.9	5.00	"	50.0		81.8	24-131		2.95	20	
Benzo(b)fluoranthene	42.9	5.00	"	50.0		85.8	11-145		5.29	20	
Benzo(g,h,i)perylene	28.3	5.00	"	50.0		56.6	10-110		1.51	20	
Benzo(k)fluoranthene	34.7	5.00	"	50.0		69.5	10-161		22.3	20	Non-dir.
Chrysene	35.0	5.00	"	50.0		70.0	26-112		6.71	20	
Dibenzo(a,h)anthracene	31.0	5.00	"	50.0		61.9	12-104		2.12	20	
Fluoranthene	32.4	5.00	"	50.0		64.8	27-110		3.10	20	
Fluorene	34.4	5.00	"	50.0		68.7	32-107		5.78	20	
Indeno(1,2,3-cd)pyrene	32.8	5.00	"	50.0		65.6	10-107		3.00	20	
2-Methylnaphthalene	35.8	5.00	"	50.0		71.5	27-97		8.91	20	
Naphthalene	29.2	5.00	"	50.0		58.5	27-95		5.41	20	
Phenanthrene	32.4	5.00	"	50.0		64.9	26-109		2.25	20	
Pyrene	35.4	5.00	"	50.0		70.8	23-126		3.91	20	
Surrogate: Nitrobenzene-d5	*34.3*		*"*	*50.2*		*68.3*	*12-112*				
Surrogate: 2-Fluorobiphenyl	*28.4*		*"*	*50.0*		*56.9*	*14-101*				
Surrogate: Terphenyl-d14	*34.3*		*"*	*50.1*		*68.4*	*10-151*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13L0853-01	MW-3R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13L0853-02	TB-12/23/2013	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 130853

YOUR Information

Company: Ecosystems Strategies Inc.
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Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention: Brenda Wells
E-Mail Address:

YOUR Project ID

GY99143.72

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type/Deliverbles

- Summary Report ___
- Summary w/ QA Summary ☒
- CT RCP Package ___
- NY ASP A Package ___
- NY ASP B Package ___
- *Electronic Deliverables:*
- EDD (Specify Type) ___
- Excel ☒

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Tyler Goodnough
Samples Collected/Authorized By (Signature)

Tyler Goodnough
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins-Furans	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3R	12/23/2013	GW	VOCs (8260) + PAHs only	(3) 40ml vials + (1) 1L amber
TB-12/23/2013	12/23/2013	DI	VOCs (8260)	(2) 40 ml vials

Comments

Preservation Check those Applicable: 4°C ✓ Frozen ___ HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Christine Arone 12/26/13
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

Christine 12-26-13 9:35
Samples Received By Date/Time

Prince 12-26-13 1600
Samples Received in LAB by Date/Time

Temperature on Receipt 3.2 °C