

January 10, 2022

Mr. Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, NY 12233-7014

Re: NYSDEC Site No. 360174
December 2021 – January 2022 Monthly Progress Report
Implementation of Interim Remedial Measure (IRM)
Westchester County Airport, 240 Airport Road
White Plains, New York 10604

Dear Mr. Hubicki:

Actions Taken/Accomplishments (December 2021)

A summary of progress and completion percentage is provided below as well as in Appendix A.

1. Completed coordination with the Airport to facilitate the OF-7 storm sewer abandonment and reconstruction for the season. Upon receipt of the large vault and 30-inch valve required to complete construction, First Environment will remobilize to the site to resume coordination.
2. Continued air monitoring associated with OF-7 storm sewer abandonment and reconstruction. The collected data is attached in Appendix B. No elevated air particulates were encountered in December that required a work stoppage or wetting surfaces to reduce dust levels. No excursions were recorded in December. No dust monitoring occurred the vast majority of the month due to the lack of intrusive activities occurring.
3. Phase I construction is estimated at 99 percent completion with approximately 4,400 linear feet installed. The remaining portion consists of inlet 7007.1 and approximately 15 feet of pipe, which cannot be installed until the new 30-inch shut-off valve and associated vault are installed.
4. Operation of the treatment system was completed. Total water treated and discharged to date is greater than 123,052 gallons. The total volume discharged was unable to be accurately measured due to cold conditions the last two days of discharge leading to the totalizer freezing up. 18,259 gallons were measured as a minimum discharge volume for this month.

5. No sections of the storm sewer were replaced this month. However, many leaks or defects were corrected. Details are provided in the bullet points below. Figure 1 illustrates the progress.
 - Closed off pipe from Jellyfish Filters with brick and mortar, demolished and removed Jellyfish Filters.
 - Fixed leaks at Structure 7017, 7016.
 - Added structure at 7015.1 to eliminate surface water flow and replaced 7013.3 due to believed manufacturing defect that caused groundwater leakage to the vault.
 - Sealed manhole chimneys to prevent groundwater infiltration during times of high groundwater levels.
 - Raised storm sewer inlet 7013.1 to prevent infiltration of surfaced groundwater.
 - Roof Drain connection to 7010.2 sealed.
6. Completed video documentation of the condition of the newly constructed storm sewer looking for leaks and debris. Further assessment is required.
7. Weekly detail reports for December are located in Appendix C. A photo log that illustrates construction activities is provided in Appendix D and illustrated in Figure 1 highlighted in purple.
8. Collected waste class samples S-9 through S-16 for analysis in preparation of disposal of the soil pile. Laboratory results are presented in Appendix E.
9. Collected final sample to satisfy requirements for the Westchester County discharge permit. Laboratory results from all samples are presented in Appendix F.

January & February Activities

1. Will resume work with the County to facilitate the OF-7 abandonment and reconstruction of storm sewer system with accompanying air monitoring, when needed. First Environment will provide oversight, continuous air monitoring, and waste classification of soil for disposal purposes.
2. At the request of the NYSDEC, prepare and submit a limited scope workplan in January 2022 to further delineate the extent of PFAS impacted environmental media downgradient of OF-7. We expect to include performance monitoring as part limited scope as well as groundwater water level assessment needed for the construction of the New King Street waterline.
3. First Environment is evaluating surface water permit requirements for discharge of treated PFAS water below the mound and has been in contact with the NYSDEC
4. First Environment continues to evaluate another PFAS technology manufactured by CETCO called FLUOR-SORB for a pilot test to reduce

PFAS in surface water. The pilot test being considered is passive consisting of reactive core mat and PFAS filter box. We do not anticipate this pilot test will be available for application until the spring-summer of 2022 (Appendix G).

5. First Environment is in coordination with the Westchester County Department of Public Works and Transportation as well as design engineering firms. OLA Engineers is preparing a modified workplan for air monitoring, soil, and water handling procedures in connection with the municipal water supply system near New King Street.
6. Decontaminate, dismantle, and remove the existing treatment system once all water has been treated to acceptable levels.
7. Respond to NYSDEC comments pertaining to the Site Characterization Report submitted in March, 2021.

If you have any questions, please do not hesitate to call.

Regards,

FIRST ENVIRONMENT, INC.



Scott R. Green, P.G.
Director, Insurance Consulting
Service Group

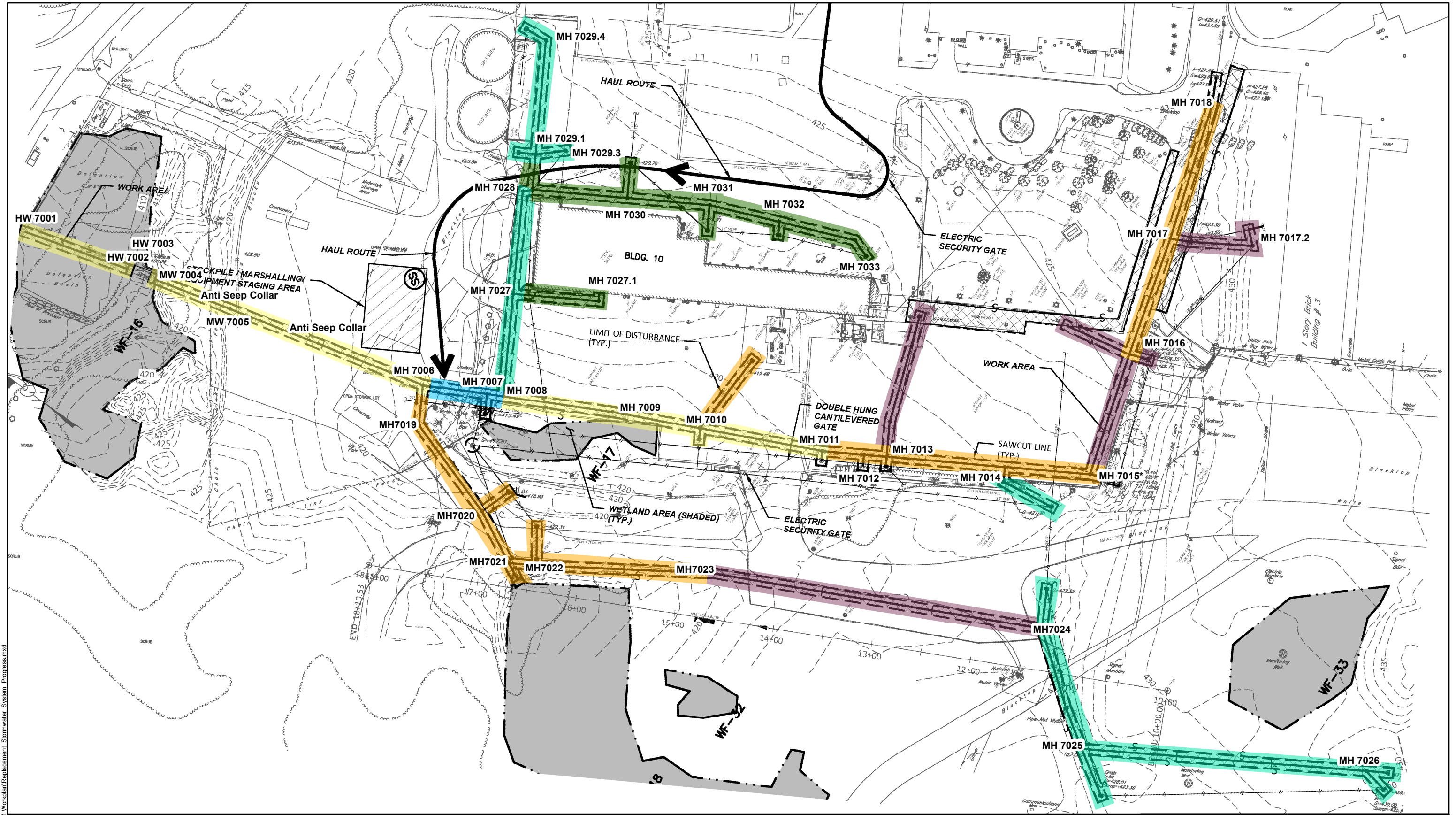


David Luer
Project Manager/Field Team Leader

Att.

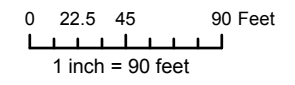
- c: B. Tod Delaney, Ph.D., P.E., BCCC - First Environment, Inc.
Arthur Clarke, J.D. - First Environment, Inc.
Hugh Greechan, Jr. P.E. - Westchester County (hjg7@westchestergov.com)
John Nonna - Westchester County (jnonna@westchestergov.com)
Robert Funicello - Westchester County (rff3@westchestergov.com)
John Inserra - Westchester County Airport (jhi1@westchestergov.com)
John Benvegna - WSP (john.benvegna@wsp.com)
G. Heitzman
S. Crisafulli
L. Schmidt
J. Brown
J. Carpenter
M. Schuck – NYSDOH
K. Kulow - NYSDOH

FIGURES



Legend

 June Completion	 September Completion	 Wetland
 July Completion	 October Completion	
 August Completion	 November Completion	



		NYSDEC SITE NO. 360174 WESTCHESTER COUNTY AIRPORT White Plains, Westchester County, New York FIGURE 1 OF-7 STORM SEWER CONSTRUCTION PROGRESS									
		10 Park Place, Bldg 1A, Suite 504 Butler, NJ 07405	<table border="1"> <tr> <th>Revised</th> <th>Drawn</th> <th>Checked</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>LS</td> <td>DL</td> <td>SG</td> <td>1/10/2022</td> </tr> </table>	Revised	Drawn	Checked	Approved	Date		LS	DL
Revised	Drawn	Checked	Approved	Date							
	LS	DL	SG	1/10/2022							

Source: Provident Design Engineering PLLC, 2020 100% OF-7 Storm Sewer Design

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APPENDIX A

**IRM OF-7 & OF-4
2020-2021
Work Activity Schedule**

Milestone	Estimated Duration	Estimated Completion Date	Estimated Completion Percentage
Meeting County Engineers & Airport Operations	1 Day	20 February	100%
Stream Reconnaissance and Mapping/Location of DEP off-site Wells	3 Days	6 March	100%
Assess Additional Subsurface Collection Point	2 Days	15 March	100%
Staff Gauge Installation	1 Day	23 March	100%
Collect & Evaluate Storm Sewer Water/Groundwater Elevations	1 Day	30 March	100%
OF-7 Data Collection Storm Sewer Video Evaluation	10 Days	6 April	100%
Storm Sewer Surface water Sample Evaluation	20 Days	4 May	100%
Private Utility Mark out	2 Day	8 May	100%
Monitoring Well Installations & Well Development	20 Days	15 May	100%
Groundwater Sampling	7 Days	30 May	100%
OF-4 Pilot Test*	15 Day	15 November	N/A
OF-7 Storm Sewer Design/Modification	45 Days	31 August	100%
OF-7 Storm Bid & Selection	30 Days	January 25,2021	100%
Surface Water Sample Collection	120 Days	6 November	100%
Continued Outfall Flow & Rainfall Measurements	60 Days	30 November	100%
OF-7 Storm Sewer Installation	120 Days	November 30, 2021	99%
OF-7/OF-4 Performance Monitoring	Quarterly	1 st Quarter 2022	0%
New King Street Workplan	NA	January 24	50%
Waterline Workplan	NA	February 17	25%
OF-4 IRM Pilot Test Permits & Workplan	NA	Spring 2022	0%
OF-4 IRM Pilot Test	TBD	Spring/Summer 2022	0%
GW IRM Workplan & Pilot Test	TBD	Summer/Fall 2020	0%

Estimated task durations and completions are tentative and are subject to modification based on site work, progress, weather delays, and other considerations such as contractor availability or Airport access.

Monthly progress reports will provide task initiation date for next month activity.

APPENDIX B

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 7:21:00 AM				
Dec 6 2021 7:22:00 AM	0.019	0		
Dec 6 2021 7:23:00 AM	0.017	0	0.049	0
Dec 6 2021 7:24:00 AM	0.018	0	0.041	0
Dec 6 2021 7:25:00 AM	0.02	0	0.057	0
Dec 6 2021 7:26:00 AM	0.02	0	0.026	0
Dec 6 2021 7:27:00 AM	0.018	0	0.018	0
Dec 6 2021 7:28:00 AM	0.016	0	0.017	0
Dec 6 2021 7:29:00 AM	0.016	0	0.016	0
Dec 6 2021 7:30:00 AM	0.016	0	0.018	0
Dec 6 2021 7:31:00 AM	0.016	0	0.019	0
Dec 6 2021 7:32:00 AM	0.019	0	0.019	0
Dec 6 2021 7:33:00 AM	0.018	0	0.022	0
Dec 6 2021 7:34:00 AM	0.018	0	0.02	0
Dec 6 2021 7:35:00 AM	0.017	0	0.018	0
Dec 6 2021 7:36:00 AM	0.017	0.001	0.018	0
Dec 6 2021 7:37:00 AM	0.017	0.001	0.02	0.001
Dec 6 2021 7:38:00 AM	0.018	0.001	0.021	0.001
Dec 6 2021 7:39:00 AM	0.03	0.001	0.03	0.001
Dec 6 2021 7:40:00 AM	0.026	0.001	0.026	0.001
Dec 6 2021 7:41:00 AM	0.018	0.001	0.022	0.001
Dec 6 2021 7:42:00 AM	0.019	0.001	0.023	0.001
Dec 6 2021 7:43:00 AM	0.025	0.001	0.027	0.001
Dec 6 2021 7:44:00 AM	0.024	0.001	0.021	0.001
Dec 6 2021 7:45:00 AM	0.019	0.001	0.02	0.001
Dec 6 2021 7:46:00 AM	0.018	0.001	0.022	0.001
Dec 6 2021 7:47:00 AM	0.021	0.001	0.023	0.001
Dec 6 2021 7:48:00 AM	0.02	0.001	0.023	0.001
Dec 6 2021 7:49:00 AM	0.02	0.001	0.022	0.002
Dec 6 2021 7:50:00 AM	0.023	0.001	0.025	0.002
Dec 6 2021 7:51:00 AM	0.019	0.001	0.021	0.002
Dec 6 2021 7:52:00 AM	0.018	0.001	0.02	0.002
Dec 6 2021 7:53:00 AM	0.018	0.001	0.02	0.002
Dec 6 2021 7:54:00 AM	0.018	0.001	0.021	0.002
Dec 6 2021 7:55:00 AM	0.018	0.001	0.02	0.002
Dec 6 2021 7:56:00 AM	0.019	0.001	0.021	0.002
Dec 6 2021 7:57:00 AM	0.018	0.001	0.021	0.002
Dec 6 2021 7:58:00 AM	0.017	0.001	0.022	0.002
Dec 6 2021 7:59:00 AM	0.017	0.002	0.022	0.002
Dec 6 2021 8:00:00 AM	0.017	0.002	0.023	0.002
Dec 6 2021 8:01:00 AM	0.018	0.002	0.023	0.002
Dec 6 2021 8:02:00 AM	0.018	0.002	0.023	0.002
Dec 6 2021 8:03:00 AM	0.019	0.002	0.023	0.002
Dec 6 2021 8:04:00 AM	0.019	0.002	0.023	0.002
Dec 6 2021 8:05:00 AM	0.02	0.002	0.024	0.002
Dec 6 2021 8:06:00 AM	0.019	0.002	0.024	0.002
Dec 6 2021 8:07:00 AM	0.019	0.002	0.024	0.002
Dec 6 2021 8:08:00 AM	0.019	0.002	0.024	0.002
Dec 6 2021 8:09:00 AM	0.02	0.002	0.025	0.002
Dec 6 2021 8:10:00 AM	0.021	0.002	0.025	0.002
Dec 6 2021 8:11:00 AM	0.021	0.002	0.026	0.003
Dec 6 2021 8:12:00 AM	0.02	0.002	0.027	0.003
Dec 6 2021 8:13:00 AM	0.021	0.002	0.027	0.003
Dec 6 2021 8:14:00 AM	0.021	0.002	0.028	0.003

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 8:15:00 AM	0.023	0.002	0.03	0.003
Dec 6 2021 8:16:00 AM	0.024	0.002	0.03	0.003
Dec 6 2021 8:17:00 AM	0.024	0.002	0.032	0.003
Dec 6 2021 8:18:00 AM	0.023	0.002	0.031	0.003
Dec 6 2021 8:19:00 AM	0.024	0.002	0.031	0.003
Dec 6 2021 8:20:00 AM	0.024	0.002	0.031	0.003
Dec 6 2021 8:21:00 AM	0.026	0.002	0.032	0.003
Dec 6 2021 8:22:00 AM	0.026	0.003	0.031	0.003
Dec 6 2021 8:23:00 AM	0.026	0.003	0.032	0.003
Dec 6 2021 8:24:00 AM	0.027	0.003	0.034	0.003
Dec 6 2021 8:25:00 AM	0.028	0.003	0.036	0.003
Dec 6 2021 8:26:00 AM	0.029	0.003	0.037	0.003
Dec 6 2021 8:27:00 AM	0.029	0.003	0.036	0.004
Dec 6 2021 8:28:00 AM	0.029	0.003	0.037	0.004
Dec 6 2021 8:29:00 AM	0.029	0.003	0.038	0.004
Dec 6 2021 8:30:00 AM	0.03	0.003	0.038	0.004
Dec 6 2021 8:31:00 AM	0.03	0.003	0.038	0.004
Dec 6 2021 8:32:00 AM	0.029	0.003	0.039	0.004
Dec 6 2021 8:33:00 AM	0.028	0.003	0.041	0.004
Dec 6 2021 8:34:00 AM	0.029	0.003	0.038	0.004
Dec 6 2021 8:35:00 AM	0.027	0.003	0.035	0.004
Dec 6 2021 8:36:00 AM	0.025	0.003	0.033	0.004
Dec 6 2021 8:37:00 AM	0.026	0.003	0.034	0.004
Dec 6 2021 8:38:00 AM	0.026	0.003	0.033	0.004
Dec 6 2021 8:39:00 AM	0.026	0.004	0.035	0.004
Dec 6 2021 8:40:00 AM	0.025	0.004	0.033	0.005
Dec 6 2021 8:41:00 AM	0.026	0.004	0.036	0.005
Dec 6 2021 8:42:00 AM	0.025	0.004	0.033	0.005
Dec 6 2021 8:43:00 AM	0.025	0.004	0.033	0.005
Dec 6 2021 8:44:00 AM	0.025	0.004	0.034	0.005
Dec 6 2021 8:45:00 AM	0.026	0.004	0.034	0.005
Dec 6 2021 8:46:00 AM	0.026	0.004	0.033	0.005
Dec 6 2021 8:47:00 AM	0.026	0.004	0.034	0.005
Dec 6 2021 8:48:00 AM	0.026	0.004	0.034	0.005
Dec 6 2021 8:49:00 AM	0.026	0.004	0.034	0.005
Dec 6 2021 8:50:00 AM	0.026	0.004	0.035	0.005
Dec 6 2021 8:51:00 AM	0.029	0.004	0.039	0.005
Dec 6 2021 8:52:00 AM	0.027	0.004	0.035	0.005
Dec 6 2021 8:53:00 AM	0.027	0.004	0.035	0.005
Dec 6 2021 8:54:00 AM	0.028	0.004	0.037	0.006
Dec 6 2021 8:55:00 AM	0.028	0.004	0.037	0.006
Dec 6 2021 8:56:00 AM	0.029	0.004	0.037	0.006
Dec 6 2021 8:57:00 AM	0.029	0.005	0.04	0.006
Dec 6 2021 8:58:00 AM	0.028	0.005	0.036	0.006
Dec 6 2021 8:59:00 AM	0.03	0.005	0.037	0.006
Dec 6 2021 9:00:00 AM	0.029	0.005	0.038	0.006
Dec 6 2021 9:01:00 AM	0.028	0.005	0.037	0.006
Dec 6 2021 9:02:00 AM	0.028	0.005	0.038	0.006
Dec 6 2021 9:03:00 AM	0.029	0.005	0.038	0.006
Dec 6 2021 9:04:00 AM	0.029	0.005	0.037	0.006
Dec 6 2021 9:05:00 AM	0.029	0.005	0.037	0.006
Dec 6 2021 9:06:00 AM	0.029	0.005	0.038	0.007
Dec 6 2021 9:07:00 AM	0.029	0.005	0.038	0.007
Dec 6 2021 9:08:00 AM	0.029	0.005	0.038	0.007

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 9:09:00 AM	0.028	0.005	0.038	0.007
Dec 6 2021 9:10:00 AM	0.029	0.005	0.038	0.007
Dec 6 2021 9:11:00 AM	0.029	0.005	0.038	0.007
Dec 6 2021 9:12:00 AM	0.029	0.005	0.039	0.007
Dec 6 2021 9:13:00 AM	0.029	0.005	0.038	0.007
Dec 6 2021 9:14:00 AM	0.03	0.006	0.04	0.007
Dec 6 2021 9:15:00 AM	0.03	0.006	0.039	0.007
Dec 6 2021 9:16:00 AM	0.031	0.006	0.04	0.007
Dec 6 2021 9:17:00 AM	0.031	0.006	0.04	0.007
Dec 6 2021 9:18:00 AM	0.031	0.006	0.041	0.007
Dec 6 2021 9:19:00 AM	0.031	0.006	0.041	0.008
Dec 6 2021 9:20:00 AM	0.032	0.006	0.041	0.008
Dec 6 2021 9:21:00 AM	0.032	0.006	0.041	0.008
Dec 6 2021 9:22:00 AM	0.032	0.006	0.041	0.008
Dec 6 2021 9:23:00 AM	0.033	0.006	0.043	0.008
Dec 6 2021 9:24:00 AM	0.033	0.006	0.043	0.008
Dec 6 2021 9:25:00 AM	0.033	0.006	0.043	0.008
Dec 6 2021 9:26:00 AM	0.034	0.006	0.045	0.008
Dec 6 2021 9:27:00 AM	0.039	0.006	0.049	0.008
Dec 6 2021 9:28:00 AM	0.035	0.006	0.048	0.008
Dec 6 2021 9:29:00 AM	0.037	0.007	0.048	0.008
Dec 6 2021 9:30:00 AM	0.042	0.007	0.052	0.009
Dec 6 2021 9:31:00 AM	0.036	0.007	0.049	0.009
Dec 6 2021 9:32:00 AM	0.036	0.007	0.047	0.009
Dec 6 2021 9:33:00 AM	0.037	0.007	0.048	0.009
Dec 6 2021 9:34:00 AM	0.038	0.007	0.049	0.009
Dec 6 2021 9:35:00 AM	0.037	0.007	0.047	0.009
Dec 6 2021 9:36:00 AM	0.037	0.007	0.048	0.009
Dec 6 2021 9:37:00 AM	0.038	0.007	0.049	0.009
Dec 6 2021 9:38:00 AM	0.038	0.007	0.048	0.009
Dec 6 2021 9:39:00 AM	0.037	0.007	0.048	0.009
Dec 6 2021 9:40:00 AM	0.038	0.007	0.049	0.01
Dec 6 2021 9:41:00 AM	0.038	0.007	0.05	0.01
Dec 6 2021 9:42:00 AM	0.039	0.008	0.049	0.01
Dec 6 2021 9:43:00 AM	0.039	0.008	0.049	0.01
Dec 6 2021 9:44:00 AM	0.04	0.008	0.051	0.01
Dec 6 2021 9:45:00 AM	0.04	0.008	0.052	0.01
Dec 6 2021 9:46:00 AM	0.04	0.008	0.051	0.01
Dec 6 2021 9:47:00 AM	0.04	0.008	0.051	0.01
Dec 6 2021 9:48:00 AM	0.04	0.008	0.052	0.01
Dec 6 2021 9:49:00 AM	0.04	0.008	0.053	0.011
Dec 6 2021 9:50:00 AM	0.042	0.008	0.054	0.011
Dec 6 2021 9:51:00 AM	0.042	0.008	0.054	0.011
Dec 6 2021 9:52:00 AM	0.043	0.008	0.054	0.011
Dec 6 2021 9:53:00 AM	0.042	0.009	0.056	0.011
Dec 6 2021 9:54:00 AM	0.046	0.009	0.059	0.011
Dec 6 2021 9:55:00 AM	0.043	0.009	0.056	0.011
Dec 6 2021 9:56:00 AM	0.045	0.009	0.058	0.011
Dec 6 2021 9:57:00 AM	0.044	0.009	0.057	0.011
Dec 6 2021 9:58:00 AM	0.044	0.009	0.056	0.012
Dec 6 2021 9:59:00 AM	0.044	0.009	0.057	0.012
Dec 6 2021 10:00:00 AM	0.045	0.009	0.057	0.012
Dec 6 2021 10:01:00 AM	0.046	0.009	0.059	0.012
Dec 6 2021 10:02:00 AM	0.046	0.009	0.058	0.012

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 10:03:00 AM	0.046	0.009	0.059	0.012
Dec 6 2021 10:04:00 AM	0.046	0.01	0.059	0.012
Dec 6 2021 10:05:00 AM	0.046	0.01	0.06	0.012
Dec 6 2021 10:06:00 AM	0.047	0.01	0.061	0.013
Dec 6 2021 10:07:00 AM	0.048	0.01	0.061	0.013
Dec 6 2021 10:08:00 AM	0.049	0.01	0.061	0.013
Dec 6 2021 10:09:00 AM	0.048	0.01	0.061	0.013
Dec 6 2021 10:10:00 AM	0.049	0.01	0.061	0.013
Dec 6 2021 10:11:00 AM	0.048	0.01	0.06	0.013
Dec 6 2021 10:12:00 AM	0.048	0.01	0.061	0.013
Dec 6 2021 10:13:00 AM	0.047	0.01	0.061	0.013
Dec 6 2021 10:14:00 AM	0.047	0.011	0.06	0.014
Dec 6 2021 10:15:00 AM	0.047	0.011	0.061	0.014
Dec 6 2021 10:16:00 AM	0.048	0.011	0.061	0.014
Dec 6 2021 10:17:00 AM	0.047	0.011	0.06	0.014
Dec 6 2021 10:18:00 AM	0.047	0.011	0.061	0.014
Dec 6 2021 10:19:00 AM	0.047	0.011	0.061	0.014
Dec 6 2021 10:20:00 AM	0.047	0.011	0.061	0.014
Dec 6 2021 10:21:00 AM	0.047	0.011	0.061	0.014
Dec 6 2021 10:22:00 AM	0.047	0.011	0.062	0.015
Dec 6 2021 10:23:00 AM	0.047	0.011	0.061	0.015
Dec 6 2021 10:24:00 AM	0.048	0.012	0.062	0.015
Dec 6 2021 10:25:00 AM	0.055	0.012	0.069	0.015
Dec 6 2021 10:26:00 AM	0.051	0.012	0.066	0.015
Dec 6 2021 10:27:00 AM	0.054	0.012	0.072	0.015
Dec 6 2021 10:28:00 AM	0.055	0.012	0.072	0.015
Dec 6 2021 10:29:00 AM	0.049	0.012	0.066	0.016
Dec 6 2021 10:30:00 AM	0.05	0.012	0.065	0.016
Dec 6 2021 10:31:00 AM	0.05	0.012	0.065	0.016
Dec 6 2021 10:32:00 AM	0.05	0.012	0.063	0.016
Dec 6 2021 10:33:00 AM	0.048	0.012	0.062	0.016
Dec 6 2021 10:34:00 AM	0.047	0.013	0.061	0.016
Dec 6 2021 10:35:00 AM	0.048	0.013	0.061	0.016
Dec 6 2021 10:36:00 AM	0.048	0.013	0.062	0.016
Dec 6 2021 10:37:00 AM	0.048	0.013	0.062	0.017
Dec 6 2021 10:38:00 AM	0.047	0.013	0.061	0.017
Dec 6 2021 10:39:00 AM	0.048	0.013	0.061	0.017
Dec 6 2021 10:40:00 AM	0.048	0.013	0.062	0.017
Dec 6 2021 10:41:00 AM	0.048	0.013	0.062	0.017
Dec 6 2021 10:42:00 AM	0.046	0.013	0.059	0.017
Dec 6 2021 10:43:00 AM	0.045	0.013	0.059	0.017
Dec 6 2021 10:44:00 AM	0.046	0.014	0.059	0.017
Dec 6 2021 10:45:00 AM	0.044	0.014	0.057	0.018
Dec 6 2021 10:46:00 AM	0.043	0.014	0.055	0.018
Dec 6 2021 10:47:00 AM	0.042	0.014	0.055	0.018
Dec 6 2021 10:48:00 AM	0.041	0.014	0.053	0.018
Dec 6 2021 10:49:00 AM	0.041	0.014	0.053	0.018
Dec 6 2021 10:50:00 AM	0.04	0.014	0.053	0.018
Dec 6 2021 10:51:00 AM	0.042	0.014	0.052	0.018
Dec 6 2021 10:52:00 AM	0.041	0.014	0.05	0.018
Dec 6 2021 10:53:00 AM	0.039	0.014	0.05	0.018
Dec 6 2021 10:54:00 AM	0.039	0.014	0.05	0.019
Dec 6 2021 10:55:00 AM	0.038	0.014	0.049	0.019
Dec 6 2021 10:56:00 AM	0.04	0.015	0.052	0.019

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 10:57:00 AM	0.039	0.015	0.051	0.019
Dec 6 2021 10:58:00 AM	0.038	0.015	0.05	0.019
Dec 6 2021 10:59:00 AM	0.038	0.015	0.049	0.019
Dec 6 2021 11:00:00 AM	0.04	0.015	0.048	0.019
Dec 6 2021 11:01:00 AM	0.037	0.015	0.048	0.019
Dec 6 2021 11:02:00 AM	0.037	0.015	0.048	0.019
Dec 6 2021 11:03:00 AM	0.037	0.015	0.049	0.02
Dec 6 2021 11:04:00 AM	0.036	0.015	0.046	0.02
Dec 6 2021 11:05:00 AM	0.035	0.015	0.046	0.02
Dec 6 2021 11:06:00 AM	0.035	0.015	0.046	0.02
Dec 6 2021 11:07:00 AM	0.035	0.015	0.046	0.02
Dec 6 2021 11:08:00 AM	0.035	0.016	0.046	0.02
Dec 6 2021 11:09:00 AM	0.037	0.016	0.05	0.02
Dec 6 2021 11:10:00 AM	0.037	0.016	0.047	0.02
Dec 6 2021 11:11:00 AM	0.034	0.016	0.045	0.02
Dec 6 2021 11:12:00 AM	0.034	0.016	0.045	0.02
Dec 6 2021 11:13:00 AM	0.035	0.016	0.046	0.02
Dec 6 2021 11:14:00 AM	0.035	0.016	0.046	0.021
Dec 6 2021 11:15:00 AM	0.038	0.016	0.053	0.021
Dec 6 2021 11:16:00 AM	0.036	0.016	0.048	0.021
Dec 6 2021 11:17:00 AM	0.036	0.016	0.046	0.021
Dec 6 2021 11:18:00 AM	0.035	0.016	0.046	0.021
Dec 6 2021 11:19:00 AM	0.035	0.016	0.046	0.021
Dec 6 2021 11:20:00 AM	0.035	0.016	0.046	0.021
Dec 6 2021 11:21:00 AM	0.037	0.016	0.046	0.021
Dec 6 2021 11:22:00 AM	0.037	0.017	0.046	0.021
Dec 6 2021 11:23:00 AM	0.036	0.017	0.047	0.021
Dec 6 2021 11:24:00 AM	0.036	0.017	0.047	0.022
Dec 6 2021 11:25:00 AM	0.036	0.017	0.046	0.022
Dec 6 2021 11:26:00 AM	0.036	0.017	0.047	0.022
Dec 6 2021 11:27:00 AM	0.036	0.017	0.046	0.022
Dec 6 2021 11:28:00 AM	0.036	0.017	0.047	0.022
Dec 6 2021 11:29:00 AM	0.036	0.017	0.047	0.022
Dec 6 2021 11:30:00 AM	0.036	0.017	0.046	0.022
Dec 6 2021 11:31:00 AM	0.036	0.017	0.046	0.022
Dec 6 2021 11:32:00 AM	0.035	0.017	0.046	0.022
Dec 6 2021 11:33:00 AM	0.035	0.017	0.046	0.022
Dec 6 2021 11:34:00 AM	0.035	0.017	0.046	0.023
Dec 6 2021 11:35:00 AM	0.035	0.018	0.045	0.023
Dec 6 2021 11:36:00 AM	0.035	0.018	0.045	0.023
Dec 6 2021 11:37:00 AM	0.035	0.018	0.045	0.023
Dec 6 2021 11:38:00 AM	0.034	0.018	0.045	0.023
Dec 6 2021 11:39:00 AM	0.035	0.018	0.046	0.023
Dec 6 2021 11:40:00 AM	0.035	0.018	0.046	0.023
Dec 6 2021 11:41:00 AM	0.034	0.018	0.045	0.023
Dec 6 2021 11:42:00 AM	0.034	0.018	0.045	0.023
Dec 6 2021 11:43:00 AM	0.034	0.018	0.044	0.023
Dec 6 2021 11:44:00 AM	0.034	0.018	0.044	0.023
Dec 6 2021 11:45:00 AM	0.033	0.018	0.044	0.024
Dec 6 2021 11:46:00 AM	0.033	0.018	0.044	0.024
Dec 6 2021 11:47:00 AM	0.033	0.018	0.044	0.024
Dec 6 2021 11:48:00 AM	0.034	0.018	0.043	0.024
Dec 6 2021 11:49:00 AM	0.034	0.019	0.045	0.024
Dec 6 2021 11:50:00 AM	0.035	0.019	0.045	0.024

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 11:51:00 AM	0.035	0.019	0.048	0.024
Dec 6 2021 11:52:00 AM	0.036	0.019	0.046	0.024
Dec 6 2021 11:53:00 AM	0.034	0.019	0.045	0.024
Dec 6 2021 11:54:00 AM	0.034	0.019	0.044	0.024
Dec 6 2021 11:55:00 AM	0.035	0.019	0.046	0.025
Dec 6 2021 11:56:00 AM	0.035	0.019	0.045	0.025
Dec 6 2021 11:57:00 AM	0.036	0.019	0.047	0.025
Dec 6 2021 11:58:00 AM	0.036	0.019	0.048	0.025
Dec 6 2021 11:59:00 AM	0.035	0.019	0.046	0.025
Dec 6 2021 12:00:00 PM	0.035	0.019	0.045	0.025
Dec 6 2021 12:01:00 PM	0.038	0.019	0.045	0.025
Dec 6 2021 12:02:00 PM	0.035	0.019	0.045	0.025
Dec 6 2021 12:03:00 PM	0.035	0.02	0.046	0.025
Dec 6 2021 12:04:00 PM	0.036	0.02	0.046	0.025
Dec 6 2021 12:05:00 PM	0.036	0.02	0.046	0.025
Dec 6 2021 12:06:00 PM	0.037	0.02	0.048	0.026
Dec 6 2021 12:07:00 PM	0.038	0.02	0.049	0.026
Dec 6 2021 12:08:00 PM	0.037	0.02	0.047	0.026
Dec 6 2021 12:09:00 PM	0.037	0.02	0.048	0.026
Dec 6 2021 12:10:00 PM	0.037	0.02	0.048	0.026
Dec 6 2021 12:11:00 PM	0.037	0.02	0.048	0.026
Dec 6 2021 12:12:00 PM	0.037	0.02	0.047	0.026
Dec 6 2021 12:13:00 PM	0.038	0.02	0.049	0.026
Dec 6 2021 12:14:00 PM	0.037	0.02	0.048	0.026
Dec 6 2021 12:15:00 PM	0.038	0.02	0.049	0.026
Dec 6 2021 12:16:00 PM	0.039	0.021	0.049	0.027
Dec 6 2021 12:17:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:18:00 PM	0.038	0.021	0.051	0.027
Dec 6 2021 12:19:00 PM	0.039	0.021	0.05	0.027
Dec 6 2021 12:20:00 PM	0.039	0.021	0.05	0.027
Dec 6 2021 12:21:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:22:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:23:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:24:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:25:00 PM	0.038	0.021	0.05	0.027
Dec 6 2021 12:26:00 PM	0.038	0.021	0.05	0.028
Dec 6 2021 12:27:00 PM	0.039	0.021	0.051	0.028
Dec 6 2021 12:28:00 PM	0.039	0.022	0.052	0.028
Dec 6 2021 12:29:00 PM	0.04	0.022	0.051	0.028
Dec 6 2021 12:30:00 PM	0.039	0.022	0.051	0.028
Dec 6 2021 12:31:00 PM	0.039	0.022	0.051	0.028
Dec 6 2021 12:32:00 PM	0.039	0.022	0.051	0.028
Dec 6 2021 12:33:00 PM	0.039	0.022	0.051	0.028
Dec 6 2021 12:34:00 PM	0.039	0.022	0.051	0.028
Dec 6 2021 12:35:00 PM	0.04	0.022	0.051	0.029
Dec 6 2021 12:36:00 PM	0.04	0.022	0.052	0.029
Dec 6 2021 12:37:00 PM	0.04	0.022	0.054	0.029
Dec 6 2021 12:38:00 PM	0.04	0.022	0.052	0.029
Dec 6 2021 12:39:00 PM	0.041	0.022	0.053	0.029
Dec 6 2021 12:40:00 PM	0.04	0.022	0.053	0.029
Dec 6 2021 12:41:00 PM	0.04	0.023	0.051	0.029
Dec 6 2021 12:42:00 PM	0.04	0.023	0.052	0.029
Dec 6 2021 12:43:00 PM	0.04	0.023	0.052	0.029
Dec 6 2021 12:44:00 PM	0.041	0.023	0.053	0.03

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 12:45:00 PM	0.041	0.023	0.054	0.03
Dec 6 2021 12:46:00 PM	0.042	0.023	0.054	0.03
Dec 6 2021 12:47:00 PM	0.042	0.023	0.055	0.03
Dec 6 2021 12:48:00 PM	0.042	0.023	0.054	0.03
Dec 6 2021 12:49:00 PM	0.042	0.023	0.056	0.03
Dec 6 2021 12:50:00 PM	0.043	0.023	0.057	0.03
Dec 6 2021 12:51:00 PM	0.044	0.023	0.058	0.03
Dec 6 2021 12:52:00 PM	0.044	0.024	0.057	0.03
Dec 6 2021 12:53:00 PM	0.044	0.024	0.057	0.031
Dec 6 2021 12:54:00 PM	0.047	0.024	0.06	0.031
Dec 6 2021 12:55:00 PM	0.046	0.024	0.058	0.031
Dec 6 2021 12:56:00 PM	0.044	0.024	0.057	0.031
Dec 6 2021 12:57:00 PM	0.045	0.024	0.058	0.031
Dec 6 2021 12:58:00 PM	0.044	0.024	0.057	0.031
Dec 6 2021 12:59:00 PM	0.044	0.024	0.056	0.031
Dec 6 2021 1:00:00 PM	0.044	0.024	0.058	0.031
Dec 6 2021 1:01:00 PM	0.043	0.024	0.056	0.032
Dec 6 2021 1:02:00 PM	0.044	0.024	0.057	0.032
Dec 6 2021 1:03:00 PM	0.044	0.025	0.057	0.032
Dec 6 2021 1:04:00 PM	0.047	0.025	0.058	0.032
Dec 6 2021 1:05:00 PM	0.044	0.025	0.057	0.032
Dec 6 2021 1:06:00 PM	0.045	0.025	0.057	0.032
Dec 6 2021 1:07:00 PM	0.043	0.025	0.057	0.032
Dec 6 2021 1:08:00 PM	0.044	0.025	0.057	0.032
Dec 6 2021 1:09:00 PM	0.043	0.025	0.056	0.032
Dec 6 2021 1:10:00 PM	0.044	0.025	0.058	0.033
Dec 6 2021 1:11:00 PM	0.045	0.025	0.057	0.033
Dec 6 2021 1:12:00 PM	0.046	0.025	0.058	0.033
Dec 6 2021 1:13:00 PM	0.044	0.025	0.057	0.033
Dec 6 2021 1:14:00 PM	0.044	0.026	0.058	0.033
Dec 6 2021 1:15:00 PM	0.044	0.026	0.059	0.033
Dec 6 2021 1:16:00 PM	0.046	0.026	0.06	0.033
Dec 6 2021 1:17:00 PM	0.044	0.026	0.057	0.033
Dec 6 2021 1:18:00 PM	0.043	0.026	0.056	0.034
Dec 6 2021 1:19:00 PM	0.044	0.026	0.055	0.034
Dec 6 2021 1:20:00 PM	0.046	0.026	0.055	0.034
Dec 6 2021 1:21:00 PM	0.047	0.026	0.056	0.034
Dec 6 2021 1:22:00 PM	0.045	0.026	0.056	0.034
Dec 6 2021 1:23:00 PM	0.045	0.026	0.056	0.034
Dec 6 2021 1:24:00 PM	0.044	0.026	0.055	0.034
Dec 6 2021 1:25:00 PM	0.042	0.027	0.054	0.034
Dec 6 2021 1:26:00 PM	0.043	0.027	0.055	0.034
Dec 6 2021 1:27:00 PM	0.048	0.027	0.056	0.035
Dec 6 2021 1:28:00 PM	0.049	0.027	0.057	0.035
Dec 6 2021 1:29:00 PM	0.045	0.027	0.056	0.035
Dec 6 2021 1:30:00 PM	0.045	0.027	0.057	0.035
Dec 6 2021 1:31:00 PM	0.044	0.027	0.057	0.035
Dec 6 2021 1:32:00 PM	0.045	0.027	0.057	0.035
Dec 6 2021 1:33:00 PM	0.045	0.027	0.056	0.035
Dec 6 2021 1:34:00 PM	0.044	0.027	0.059	0.035
Dec 6 2021 1:35:00 PM	0.047	0.028	0.061	0.036
Dec 6 2021 1:36:00 PM	0.047	0.028	0.064	0.036
Dec 6 2021 1:37:00 PM	0.052	0.028	0.065	0.036
Dec 6 2021 1:38:00 PM	0.051	0.028	0.064	0.036

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 1:39:00 PM	0.051	0.028	0.065	0.036
Dec 6 2021 1:40:00 PM	0.048	0.028	0.058	0.036
Dec 6 2021 1:41:00 PM	0.046	0.028	0.06	0.036
Dec 6 2021 1:42:00 PM	0.05	0.028	0.062	0.036
Dec 6 2021 1:43:00 PM	0.047	0.028	0.06	0.037
Dec 6 2021 1:44:00 PM	0.046	0.028	0.06	0.037
Dec 6 2021 1:45:00 PM	0.047	0.029	0.061	0.037
Dec 6 2021 1:46:00 PM	0.049	0.029	0.063	0.037
Dec 6 2021 1:47:00 PM	0.048	0.029	0.062	0.037
Dec 6 2021 1:48:00 PM	0.049	0.029	0.062	0.037
Dec 6 2021 1:49:00 PM	0.048	0.029	0.061	0.037
Dec 6 2021 1:50:00 PM	0.048	0.029	0.061	0.037
Dec 6 2021 1:51:00 PM	0.048	0.029	0.063	0.038
Dec 6 2021 1:52:00 PM	0.048	0.029	0.065	0.038
Dec 6 2021 1:53:00 PM	0.048	0.029	0.062	0.038
Dec 6 2021 1:54:00 PM	0.048	0.029	0.061	0.038
Dec 6 2021 1:55:00 PM	0.047	0.03	0.061	0.038
Dec 6 2021 1:56:00 PM	0.048	0.03	0.06	0.038
Dec 6 2021 1:57:00 PM	0.049	0.03	0.062	0.038
Dec 6 2021 1:58:00 PM	0.048	0.03	0.062	0.039
Dec 6 2021 1:59:00 PM	0.048	0.03	0.06	0.039
Dec 6 2021 2:00:00 PM	0.047	0.03	0.06	0.039
Dec 6 2021 2:01:00 PM	0.047	0.03	0.06	0.039
Dec 6 2021 2:02:00 PM	0.048	0.03	0.061	0.039
Dec 6 2021 2:03:00 PM	0.047	0.03	0.06	0.039
Dec 6 2021 2:04:00 PM	0.047	0.03	0.06	0.039
Dec 6 2021 2:05:00 PM	0.048	0.031	0.062	0.039
Dec 6 2021 2:06:00 PM	0.049	0.031	0.062	0.04
Dec 6 2021 2:07:00 PM	0.049	0.031	0.062	0.04
Dec 6 2021 2:08:00 PM	0.049	0.031	0.061	0.04
Dec 6 2021 2:09:00 PM	0.047	0.031	0.061	0.04
Dec 6 2021 2:10:00 PM	0.047	0.031	0.06	0.04
Dec 6 2021 2:11:00 PM	0.047	0.031	0.06	0.04
Dec 6 2021 2:12:00 PM	0.05	0.031	0.064	0.04
Dec 6 2021 2:13:00 PM	0.051	0.031	0.067	0.037
Dec 6 2021 2:14:00 PM	0.05	0.031	0.062	0.041
Dec 6 2021 2:15:00 PM	0.048	0.032	0.061	0.041
Dec 6 2021 2:16:00 PM	0.049	0.032	0.062	0.041
Dec 6 2021 2:17:00 PM	0.047	0.032	0.061	0.041
Dec 6 2021 2:18:00 PM	0.048	0.032	0.061	0.041
Dec 6 2021 2:19:00 PM	0.048	0.032	0.062	0.041
Dec 6 2021 2:20:00 PM	0.05	0.032	0.06	0.041
Dec 6 2021 2:21:00 PM	0.047	0.032	0.059	0.041
Dec 6 2021 2:22:00 PM	0.046	0.032	0.059	0.042
Dec 6 2021 2:23:00 PM	0.046	0.032	0.059	0.042
Dec 6 2021 2:24:00 PM	0.045	0.032	0.059	0.042
Dec 6 2021 2:25:00 PM	0.046	0.032	0.058	0.042
Dec 6 2021 2:26:00 PM	0.046		0.059	0.042
Dec 6 2021 2:27:00 PM	0.045		0.059	0.042
Dec 6 2021 2:28:00 PM	0.045		0.058	0.042
Dec 6 2021 2:29:00 PM			0.058	0.042
Dec 6 2021 2:30:00 PM			0.058	0.043
Dec 6 2021 2:31:00 PM			0.058	0.043
Dec 6 2021 2:32:00 PM			0.058	0.043

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 6 2021 2:33:00 PM			0.058	0.043
Dec 6 2021 2:34:00 PM			0.057	0.043
Dec 6 2021 2:35:00 PM			0.064	0.043
Dec 6 2021 2:36:00 PM			0.056	0.043
Dec 6 2021 2:37:00 PM			0.06	0.043
Dec 6 2021 2:38:00 PM			0.059	0.043
Dec 6 2021 2:39:00 PM			0.059	
Dec 6 2021 2:40:00 PM			0.058	
Dec 6 2021 2:41:00 PM			0.053	
Dec 6 2021 2:42:00 PM			0.053	
Dec 6 2021 2:43:00 PM			0.053	
Dec 6 2021 2:44:00 PM			0.046	
Dec 6 2021 2:45:00 PM			0.074	
Dec 6 2021 2:46:00 PM				
Dec 13 2021 7:25:00 AM	0.01		0.013	0
Dec 13 2021 7:26:00 AM	0.016		0.024	0.001
Dec 13 2021 7:27:00 AM	0.017		0.023	0.001
Dec 13 2021 7:28:00 AM	0.01		0.015	0.001
Dec 13 2021 7:29:00 AM	0.011		0.009	0.001
Dec 13 2021 7:30:00 AM	0.023		0.008	0.001
Dec 13 2021 7:31:00 AM			0.008	0.001
Dec 13 2021 7:32:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:33:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:34:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:35:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:36:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:37:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:38:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:39:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:40:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:41:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:42:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:43:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:44:00 AM	0.006	0.001	0.008	0.001
Dec 13 2021 7:45:00 AM	0.006	0.001	0.009	0.001
Dec 13 2021 7:46:00 AM	0.006	0.001	0.009	0.001
Dec 13 2021 7:47:00 AM	0.006	0.001	0.009	0.001
Dec 13 2021 7:48:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:49:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:50:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:51:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:52:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:53:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:54:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:55:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:56:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:57:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 7:58:00 AM	0.006	0.001	0.009	0.001
Dec 13 2021 7:59:00 AM	0.007	0.001	0.009	0.001
Dec 13 2021 8:00:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:01:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:02:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:03:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:04:00 AM	0.007	0.001	0.01	0.001

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 8:05:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:06:00 AM	0.006	0.001	0.01	0.001
Dec 13 2021 8:07:00 AM	0.006	0.001	0.01	0.001
Dec 13 2021 8:08:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:09:00 AM	0.007	0.001	0.011	0.001
Dec 13 2021 8:10:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:11:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:12:00 AM	0.007	0.001	0.01	0.001
Dec 13 2021 8:13:00 AM	0.007	0.001	0.011	0.001
Dec 13 2021 8:14:00 AM	0.008	0.001	0.012	0.001
Dec 13 2021 8:15:00 AM	0.008	0.001	0.012	0.002
Dec 13 2021 8:16:00 AM	0.007	0.001	0.012	0.002
Dec 13 2021 8:17:00 AM	0.007	0.001	0.012	0.002
Dec 13 2021 8:18:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:19:00 AM	0.007	0.001	0.015	0.002
Dec 13 2021 8:20:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:21:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:22:00 AM	0.007	0.001	0.01	0.002
Dec 13 2021 8:23:00 AM	0.006	0.001	0.011	0.002
Dec 13 2021 8:24:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:25:00 AM	0.006	0.001	0.01	0.002
Dec 13 2021 8:26:00 AM	0.006	0.001	0.01	0.002
Dec 13 2021 8:27:00 AM	0.006	0.001	0.011	0.002
Dec 13 2021 8:28:00 AM	0.006	0.001	0.011	0.002
Dec 13 2021 8:29:00 AM	0.006	0.001	0.011	0.002
Dec 13 2021 8:30:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:31:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:32:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:33:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:34:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:35:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:36:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:37:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:38:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:39:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:40:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:41:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:42:00 AM	0.007	0.001	0.011	0.002
Dec 13 2021 8:43:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:44:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:45:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:46:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:47:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:48:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:49:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:50:00 AM	0.007	0.002	0.011	0.002
Dec 13 2021 8:51:00 AM	0.008	0.002	0.012	0.002
Dec 13 2021 8:52:00 AM	0.008	0.002	0.012	0.002
Dec 13 2021 8:53:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:54:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:55:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:56:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:57:00 AM	0.008	0.002	0.011	0.002
Dec 13 2021 8:58:00 AM	0.008	0.002	0.011	0.003

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 8:59:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:00:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:01:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:02:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:03:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:04:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:05:00 AM	0.008	0.002	0.012	0.003
Dec 13 2021 9:06:00 AM	0.008	0.002	0.013	0.003
Dec 13 2021 9:07:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:08:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:09:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:10:00 AM	0.008	0.002	0.012	0.003
Dec 13 2021 9:11:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:12:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:13:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:14:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:15:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:16:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:17:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:18:00 AM	0.007	0.002	0.011	0.003
Dec 13 2021 9:19:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:20:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:21:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:22:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:23:00 AM	0.008	0.002	0.012	0.003
Dec 13 2021 9:24:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:25:00 AM	0.007	0.002	0.011	0.003
Dec 13 2021 9:26:00 AM	0.008	0.002	0.011	0.003
Dec 13 2021 9:27:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:28:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:29:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:30:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:31:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:32:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:33:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:34:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:35:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:36:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:37:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:38:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:39:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:40:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:41:00 AM	0.007	0.002	0.01	0.003
Dec 13 2021 9:42:00 AM	0.008	0.002	0.01	0.003
Dec 13 2021 9:43:00 AM	0.007	0.002	0.01	0.004
Dec 13 2021 9:44:00 AM	0.007	0.002	0.01	0.004
Dec 13 2021 9:45:00 AM	0.008	0.002	0.011	0.004
Dec 13 2021 9:46:00 AM	0.008	0.003	0.01	0.004
Dec 13 2021 9:47:00 AM	0.008	0.003	0.01	0.004
Dec 13 2021 9:48:00 AM	0.008	0.003	0.01	0.004
Dec 13 2021 9:49:00 AM	0.008	0.003	0.01	0.004
Dec 13 2021 9:50:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:51:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:52:00 AM	0.008	0.003	0.011	0.004

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 9:53:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:54:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:55:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:56:00 AM	0.008	0.003	0.011	0.004
Dec 13 2021 9:57:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 9:58:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 9:59:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:00:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:01:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:02:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:03:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:04:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:05:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:06:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:07:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:08:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:09:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:10:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:11:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:12:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:13:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:14:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:15:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:16:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:17:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:18:00 AM	0.009	0.003	0.012	0.004
Dec 13 2021 10:19:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:20:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:21:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:22:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:23:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:24:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:25:00 AM	0.009	0.003	0.011	0.004
Dec 13 2021 10:26:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:27:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:28:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:29:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:30:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:31:00 AM	0.008	0.003	0.017	0.005
Dec 13 2021 10:32:00 AM	0.008	0.003	0.012	0.005
Dec 13 2021 10:33:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:34:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:35:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:36:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:37:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:38:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:39:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:40:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:41:00 AM	0.008	0.003	0.011	0.005
Dec 13 2021 10:42:00 AM	0.008	0.003	0.01	0.005
Dec 13 2021 10:43:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:44:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:45:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:46:00 AM	0.008	0.004	0.011	0.005

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 10:47:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:48:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:49:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:50:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:51:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:52:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 10:53:00 AM	0.008	0.004	0.012	0.005
Dec 13 2021 10:54:00 AM	0.009	0.004	0.012	0.005
Dec 13 2021 10:55:00 AM	0.009	0.004	0.012	0.005
Dec 13 2021 10:56:00 AM	0.009	0.004	0.012	0.005
Dec 13 2021 10:57:00 AM	0.009	0.004	0.012	0.005
Dec 13 2021 10:58:00 AM	0.008	0.004	0.012	0.005
Dec 13 2021 10:59:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 11:00:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 11:01:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 11:02:00 AM	0.008	0.004	0.011	0.005
Dec 13 2021 11:03:00 AM	0.007	0.004	0.01	0.005
Dec 13 2021 11:04:00 AM	0.007	0.004	0.01	0.005
Dec 13 2021 11:05:00 AM	0.007	0.004	0.01	0.005
Dec 13 2021 11:06:00 AM	0.007	0.004	0.01	0.005
Dec 13 2021 11:07:00 AM	0.007	0.004	0.01	0.005
Dec 13 2021 11:08:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:09:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:10:00 AM	0.008	0.004	0.01	0.006
Dec 13 2021 11:11:00 AM	0.008	0.004	0.01	0.006
Dec 13 2021 11:12:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:13:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:14:00 AM	0.008	0.004	0.01	0.006
Dec 13 2021 11:15:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:16:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:17:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:18:00 AM	0.008	0.004	0.01	0.006
Dec 13 2021 11:19:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:20:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:21:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:22:00 AM	0.008	0.004	0.01	0.006
Dec 13 2021 11:23:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:24:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:25:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:26:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:27:00 AM	0.006	0.004	0.009	0.006
Dec 13 2021 11:28:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:29:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:30:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:31:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:32:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:33:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:34:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:35:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:36:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:37:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:38:00 AM	0.007	0.004	0.011	0.006
Dec 13 2021 11:39:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:40:00 AM	0.007	0.004	0.01	0.006

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 11:41:00 AM	0.007	0.004	0.01	0.006
Dec 13 2021 11:42:00 AM	0.007	0.004	0.011	0.006
Dec 13 2021 11:43:00 AM	0.007	0.004	0.011	0.006
Dec 13 2021 11:44:00 AM	0.007	0.004	0.011	0.006
Dec 13 2021 11:45:00 AM	0.008	0.004	0.011	0.006
Dec 13 2021 11:46:00 AM	0.008	0.005	0.011	0.006
Dec 13 2021 11:47:00 AM	0.008	0.005	0.011	0.006
Dec 13 2021 11:48:00 AM	0.008	0.005	0.011	0.006
Dec 13 2021 11:49:00 AM	0.007	0.005	0.011	0.006
Dec 13 2021 11:50:00 AM	0.007	0.005	0.01	0.006
Dec 13 2021 11:51:00 AM	0.007	0.005	0.01	0.006
Dec 13 2021 11:52:00 AM	0.007	0.005	0.01	0.006
Dec 13 2021 11:53:00 AM	0.007	0.005	0.01	0.006
Dec 13 2021 11:54:00 AM	0.007	0.005	0.009	0.006
Dec 13 2021 11:55:00 AM	0.006	0.005	0.01	0.007
Dec 13 2021 11:56:00 AM	0.007	0.005	0.009	0.007
Dec 13 2021 11:57:00 AM	0.007	0.005	0.009	0.007
Dec 13 2021 11:58:00 AM	0.007	0.005	0.009	0.007
Dec 13 2021 11:59:00 AM	0.007	0.005	0.009	0.007
Dec 13 2021 12:00:00 PM	0.007	0.005	0.009	0.007
Dec 13 2021 12:01:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:02:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:03:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:04:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:05:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:06:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:07:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:08:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:09:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:10:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:11:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:12:00 PM	0.007	0.005	0.009	0.007
Dec 13 2021 12:13:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:14:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:15:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:16:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:17:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:18:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:19:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:20:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:21:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:22:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:23:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:24:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:25:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:26:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:27:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:28:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:29:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:30:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:31:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:32:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:33:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:34:00 PM	0.006	0.005	0.008	0.007

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 12:35:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:36:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:37:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:38:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:39:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:40:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:41:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:42:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:43:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:44:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:45:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:46:00 PM	0.006	0.005	0.008	0.007
Dec 13 2021 12:47:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:48:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:49:00 PM	0.006	0.005	0.009	0.007
Dec 13 2021 12:50:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:51:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:52:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:53:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:54:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:55:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:56:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:57:00 PM	0.006	0.005	0.008	0.008
Dec 13 2021 12:58:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 12:59:00 PM	0.006	0.005	0.008	0.008
Dec 13 2021 1:00:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 1:01:00 PM	0.006	0.005	0.009	0.008
Dec 13 2021 1:02:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:03:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:04:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:05:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:06:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:07:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:08:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:09:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:10:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:11:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:12:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:13:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:14:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:15:00 PM	0.006	0.006	0.009	0.008
Dec 13 2021 1:16:00 PM	0.006	0.006	0.009	0.008
Dec 13 2021 1:17:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:18:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:19:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:20:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:21:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:22:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:23:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:24:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:25:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:26:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:27:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:28:00 PM	0.005	0.006	0.008	0.008

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 1:29:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:30:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:31:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:32:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:33:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:34:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:35:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:36:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:37:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:38:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:39:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:40:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:41:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:42:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:43:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:44:00 PM	0.005	0.006	0.008	0.008
Dec 13 2021 1:45:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:46:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:47:00 PM	0.006	0.006	0.008	0.008
Dec 13 2021 1:48:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:49:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:50:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:51:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:52:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:53:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:54:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:55:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:56:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:57:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:58:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 1:59:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 2:00:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 2:01:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:02:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:03:00 PM	0.006	0.006	0.008	0.009
Dec 13 2021 2:04:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:05:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:06:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:07:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:08:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:09:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:10:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:11:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:12:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:13:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:14:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:15:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:16:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:17:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:18:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:19:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:20:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:21:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:22:00 PM	0.005	0.006	0.007	0.009

End Time	47119 Dust Trak Mass Conc. Total (Avg)	47119 Dust Trak TWA (Avg)	50061 Dust Trak Mass Conc. Total (Avg)	50061 Dust Trak TWA (Avg)
Dec 13 2021 2:23:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:24:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:25:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:26:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:27:00 PM	0.005	0.006	0.008	0.009
Dec 13 2021 2:28:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:29:00 PM	0.005	0.006	0.007	0.009
Dec 13 2021 2:30:00 PM	0.007	0.006	0.007	0.009
Dec 13 2021 2:31:00 PM	0.009	0.007	0.007	0.009
Dec 13 2021 2:32:00 PM	0.016	0.007	0.007	0.009
Dec 13 2021 2:33:00 PM	0.019	0.007	0.007	0.009
Dec 13 2021 2:34:00 PM	0.023	0.007	0.007	0.009
Dec 13 2021 2:35:00 PM	0.02	0.007	0.007	0.009
Dec 13 2021 2:36:00 PM	0.018	0.007	0.007	0.009
Dec 13 2021 2:37:00 PM	0.017	0.007	0.007	0.009
Dec 13 2021 2:38:00 PM	0.016	0.007	0.007	0.009
Dec 13 2021 2:39:00 PM	0.014	0.007	0.009	0.009
Dec 13 2021 2:40:00 PM	0.014	0.007	0.008	0.009
Dec 13 2021 2:41:00 PM	0.012	0.007	0.007	0.009
Dec 13 2021 2:42:00 PM	0.011	0.007	0.007	0.009
Dec 13 2021 2:43:00 PM	0.011	0.007	0.007	0.009
Dec 13 2021 2:44:00 PM	0.01	0.007	0.008	0.009
Dec 13 2021 2:45:00 PM	0.009	0.007	0.008	0.009
Dec 13 2021 2:46:00 PM	0.008	0.007	0.008	0.009
Dec 13 2021 2:47:00 PM	0.007	0.007	0.008	0.009
Dec 13 2021 2:48:00 PM	0.006	0.007	0.008	0.009
Dec 13 2021 2:49:00 PM	0.006	0.007	0.008	0.009
Dec 13 2021 2:50:00 PM	0.005	0.007	0.008	0.009
Dec 13 2021 2:51:00 PM	0.015	0.007	0.008	0.01
Dec 13 2021 2:52:00 PM	0.006		0.304	0.01
Dec 13 2021 2:53:00 PM	0.005		0.076	0.01
Dec 13 2021 2:54:00 PM	0.015	0.007	0.022	0.01
Dec 13 2021 2:55:00 PM	0.018	0.007	0.025	0.01
Dec 13 2021 2:56:00 PM	0.015	0.007	0.023	0.01
Dec 13 2021 2:57:00 PM	0.007	0.007	0.012	0.011
Dec 13 2021 2:58:00 PM	0.006	0.007	0.009	0.011
Dec 13 2021 2:59:00 PM	0.004	0.007	0.01	0.011
Dec 13 2021 3:00:00 PM	0.005	0.007	0.008	0.011
Dec 13 2021 3:01:00 PM	0.005	0.007	0.008	0.011
Dec 13 2021 3:02:00 PM	0.005	0.007	0.008	0.011
Dec 13 2021 3:03:00 PM	0.005	0.007	0.008	0.011
Dec 13 2021 3:04:00 PM	0.007	0.007	0.021	0.011
Dec 13 2021 3:05:00 PM	0.005	0.007	0.046	0.011

APPENDIX C

Weekly Report – Westchester Airport Storm Sewer Replacement

Week of: 11/28/21 to 12/03/21

FE Personnel: Dave Luer

Equipment present on site:

314E Excavator

Wacker walk behind roller

Vibratory Roller

Komatsu 930M Front Loader

Dump Truck

Observations:

No elevated readings were encountered on the PID.

No dust monitoring operations this week as no intrusive work was performed.

Progress:

Sections trenched: None.

Structures placed: None.

Backfill completed: None.

Progress this week consisted of paving open areas of prior excavations, cleanup of the site and repairs to known leaks in the system.

See attached map for a visual representation of progress.

Testing and Disposal:

An influent and effluent sample were collected on November 30, to determine the current concentration of the water in the system and the efficacy of one cycle through the carbon units. A second effluent sample was collected on December 2, following two days of cycling water to determine system efficacy following longer periods of treatment. No water was discharged this week.

Waste class samples to characterize the soil pile were collected on December 2nd. Samples S-9 through S-16 were collected and sent to York on a standard turn around time.

Other FE Activities:

FE continued to monitor the water levels in the treatment system. After the Airport maintenance staff moved 7,000 gallons of highly impacted PFAS water from the south end of the airport to the treatment system on November 29 and 30, the system was run on December 1, 2 and 3, cycling the water through the system to remove the PFAS.

In concert with American Geophysics, First Environment video recorded all the newly installed storm sewer piping to ensure watertightness and no damage to the piping happened during installation. These videos will be reviewed and analyzed.

Soil was shipped off site December 1, 2 and 3.

Weekly Report – Westchester Airport Storm Sewer Replacement

Week of: 12/04/21 to 12/11/21

FE Personnel: Dave Luer

Equipment present on site:

314E Excavator

Wacker walk behind roller

Vibratory Roller

Komatsu 930M Front Loader

Dump Truck

Observations:

No elevated readings were encountered on the PID.

No dust monitoring excursions were noted this week.

Progress:

Sections trenched: Around Structure 7013.3

Structures placed: Structure 7013.3 was replaced this week.

Backfill completed: Around Structure 7013.3.

Additional progress this week consisted of paving open areas of prior excavations, cleanup of the site and repairs to known leaks in the system. Specific leaks corrected included the Jellyfish Filters, as well as structures 7013.1, 7013.3 and 7017. The elevated inlets and manholes at structures 7010 and 7009 were lowered to be consistent with the proposed finished grade following paving.

See attached map for a visual representation of progress.

Testing and Disposal:

An effluent sample were collected on December 9, to determine the current concentration of the effluent from the system. No water was discharged this week.

Other FE Activities:

FE continued to monitor the water levels in the treatment system.

The system was run on December 6 through 9, cycling the water through the system to remove the PFAS. On the 9th, freezing conditions limited treatment to a half day

Soil was shipped off site December 6 through 10.

Weekly Report – Westchester Airport Storm Sewer Replacement

Week of: 12/12/21 to 12/18/21

FE Personnel: Dave Luer, Andrew Truman

Equipment present on site:

314E Excavator

Wacker walk behind roller

Vibratory Roller

Komatsu 930M Front Loader

Dump Truck

Observations:

No elevated readings were encountered on the PID.

No dust monitoring excursions were noted this week.

Progress:

Sections trenched: None.

Structures placed: Structure 7015.1 was replaced this week.

Backfill completed: Around Structure 7015.1.

Additional progress this week consisted of paving open areas of prior excavations, installation of new concrete gutter leading to 7015.1, cleanup of the site and repairs to known leaks in the system. Specific leaks corrected included the Jellyfish Filters, as well as the roof drain leading to structure 7010.2. The Jellyfish Filters and associated manholes that were previously disconnected from the storm sewer system were removed and backfilled.

See attached map for a visual representation of progress.

Testing and Disposal:

A sample was collected on December 16, to ensure compliance with the 60 day interval between samples for the county discharge permit. Approximately 9,253 gallons of water was discharged this week.

Other FE Activities:

FE continued to monitor the water levels in the treatment system.

The carbon vessels were replaced on December 15th to ensure that the discharged water met standards.

The system was run on December 13 through 17, cycling the water through the system to remove the PFAS on the 13th and 14th. Discharging occurred on the 15th through 17th.

Soil was shipped off site December 13 through 17.

Weekly Report – Westchester Airport Storm Sewer Replacement

Week of: 12/19/21 to 12/25/21

FE Personnel: Andrew Truman

Equipment present on site:

314E Excavator

Wacker walk behind roller

Vibratory Roller

Komatsu 930M Front Loader

Dump Truck

Observations:

No PID readings were collected this week.

No dust monitoring was performed this week.

Progress:

Sections trenched: None.

Structures placed: None.

Backfill completed: None.

Additional progress this week consisted of top coat paving in the overflow lot and behind Building 10 as well as cleanup of the site. With the exception of a small portion from 7007 to 7007.1, construction of the storm sewer system is complete. Once the 30 inch shut off valve and the large volume vault are delivered, further plans will be made for installation of those items between structures 7006 and 7007.

See attached map for a visual representation of progress.

Testing and Disposal:

No samples were collected this week. Approximately 9,006 gallons of water were discharged this week.

Other FE Activities:

FE continued to monitor the water levels in the treatment system. No further water is expected to be generated in regards to this project.

Due to cold weather conditions, the system could not be defrosted to the point of functionality on the 20th. The system was run on December 21. Discharging occurred on the 21st. Mr. Truman stayed late to ensure all water possible was pumped out of the system. The system will now be decommissioned, taken off rental and removed from the site.

Soil was shipped off site December 20th and 21st.

APPENDIX D

**APPENDIX D
Photo Log**



Photo 1 – MH-7013.3 during removal



Photo 2 – MH-7013.3 after replacement with new single piece structure.

APPENDIX D
Photo Log

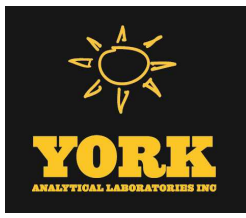


Photo 3 – Steady state flow at MH-7015.1



Photo 4 – Placing new inlet at MH-7015.1

APPENDIX E



Technical Report

prepared for:

First Environment, Inc.
10 Park Place Building 1A
Butler NJ, 07405
Attention: David Luer

Report Date: 12/10/2021

Client Project ID: WESTC028 Westchester Airport Disposal
York Project (SDG) No.: 21L0141

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/10/2021
Client Project ID: WESTC028 Westchester Airport Diposal
York Project (SDG) No.: 21L0141

First Environment, Inc.
10 Park Place Building 1A
Butler NJ, 07405
Attention: David Luer

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 02, 2021 and listed below. The project was identified as your project: **WESTC028 Westchester Airport Diposal**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21L0141-01	S-9	Soil	12/02/2021	12/02/2021
21L0141-02	S-10	Soil	12/02/2021	12/02/2021
21L0141-03	S-11	Soil	12/02/2021	12/02/2021
21L0141-04	S-12	Soil	12/02/2021	12/02/2021
21L0141-05	S-13	Soil	12/02/2021	12/02/2021
21L0141-06	S-14	Soil	12/02/2021	12/02/2021
21L0141-07	S-15	Soil	12/02/2021	12/02/2021
21L0141-08	S-16	Soil	12/02/2021	12/02/2021

General Notes for York Project (SDG) No.: 21L0141

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/10/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 8:35 am	12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:27	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:27	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.094	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
67-64-1	Acetone	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-09-2	Methylene chloride	0.032		mg/kg dry	0.0047	0.0094	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:27	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0070	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:27	OC
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	100 %		77-125							



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURRE: Toluene-d8	99.3 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	106 %			76-130						

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:16	OC
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %			65-135						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.0 %			86-118						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	104 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 10:34	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 10:34	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: SURR: 2-Fluorophenol	88.4 %			10-90.9
4165-62-2	Surrogate: SURR: Phenol-d5	70.3 %	S-08		10-69.2
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	118 %			19.2-141
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	112 %			24.8-127
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	152 %			23-163
1718-51-0	Surrogate: SURR: Terphenyl-d14	128 %	S-08		25.8-110

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	1.19		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	0.815		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	2.34		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

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WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	0.899		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	88.2		ug/kg dry	1.32	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 11:11	WL
375-95-1	* Perfluorononanoic acid (PFNA)	2.72		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	1.72		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	81.6		ug/kg dry	1.32	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 11:11	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	1.92		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	31.9		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	0.684		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	1.55		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	0.452		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	6.66		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	32.6		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	0.673		ug/kg dry	0.265	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 18:58	WL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		79.5 %	25-150							
Surrogate: M3PFBS		73.2 %	25-150							
Surrogate: M5PFHxA		87.1 %	25-150							
Surrogate: M5PFHxA		78.1 %	25-150							
Surrogate: M4PFHpA		77.3 %	25-150							
Surrogate: M4PFHpA		77.0 %	25-150							
Surrogate: M3PFHxS		103 %	25-150							



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:35 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	71.2 %								
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	104 %								
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	88.3 %								
	Surrogate: M6PFDA	71.6 %								
	Surrogate: M6PFDA	66.4 %								
	Surrogate: M7PFUdA	78.4 %								
	Surrogate: M7PFUdA	55.6 %								
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	72.2 %								
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	79.6 %								
	Surrogate: M2PFTeDA	52.1 %								
	Surrogate: M2PFTeDA	53.0 %								
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	97.8 %								
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	82.2 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.9 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	45.9 %								
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	89.5 %								
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	78.7 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.7 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	56.4 %								
	Surrogate: d3-N-MeFOSAA	79.5 %								
	Surrogate: d3-N-MeFOSAA	48.8 %								
	Surrogate: d5-N-EtFOSAA	61.1 %								
	Surrogate: d5-N-EtFOSAA	58.6 %								
	Surrogate: M2-6:2 FTS	49.2 %								
	Surrogate: M2-6:2 FTS	54.0 %								
	Surrogate: M2-8:2 FTS	44.6 %								
	Surrogate: M2-8:2 FTS	48.3 %								
	Surrogate: M9PFNA	65.7 %								
	Surrogate: M9PFNA	60.8 %								



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:35 am	<u>Date Received</u> 12/02/2021
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Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:03	CM
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	55.9 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	71.4 %			30-150						

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:15	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:15	BJ	
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	76.4 %			10-130						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-DRO	ND		mg/kg dry	10.7	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:36	12/09/2021 12:47	SK	
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triacontane	39.1 %			30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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WESTC028 Westchester Airport Diposal

Soil

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Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	72.8	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/07/2021 12:20	12/07/2021 16:03	PD
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	172 %	S-08	70-130						

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:40	RTH

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	12/08/2021 18:17	12/08/2021 18:17	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	ND		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

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WESTC028 Westchester Airport Diposal

Soil

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Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Chemical Oxygen Demand (COD)		9800		mg/kg dry	1100	1	SM 5220 D	12/07/2021 08:40	12/07/2021 13:41	JAG

Certifications:

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
pH		6.95		pH units	0.500	1	EPA 9045D	12/06/2021 14:03	12/06/2021 17:40	MAO

Certifications: NELAC-NY10854,CTDOH,PADEP

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Reactivity - Cyanide		ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	12/09/2021 08:34	12/09/2021 15:02	TJA

Certifications: CTDOH,PADEP

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Reactivity - Sulfide		ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	12/09/2021 08:41	12/09/2021 15:03	TJA

Certifications: CTDOH,PADEP

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Temperature		23.2		°C	1.00	1	EPA 170.1	12/06/2021 14:03	12/06/2021 17:40	JAMT

Certifications:

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Ignitability		Non-Ignit.		None	1	1	EPA 1030P	12/06/2021 11:21	12/06/2021 12:27	JAMT

Certifications:

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Paint Filter Test		No Free Liquid		None	0.05	1	EPA 9095B	12/07/2021 17:41	12/07/2021 18:25	AA

Certifications: NELAC-NY10854,NJDEP

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-9

York Sample ID: 21L0141-01

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:35 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.3		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCs/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for SVOC/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW

Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:45 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:54	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:54	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.048	0.096	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
67-64-1	Acetone	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-09-2	Methylene chloride	0.032		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0048	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 16:54	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0072	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 16:54	OC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	102 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	99.7 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	76-130								

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 02:43	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %			65-135						
2037-26-5	Surrogate: SURR: Toluene-d8	99.4 %			86-118						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 11:04	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:04	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	71.5 %			10-90.9						
4165-62-2	Surrogate: SURR: Phenol-d5	56.0 %			10-69.2						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	92.5 %			19.2-141						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	88.4 %			24.8-127						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	124 %			23-163						
1718-51-0	Surrogate: SURR: Terphenyl-d14	107 %			25.8-110						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.685		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	0.317		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	1.21		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.436		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	65.2		ug/kg dry	1.25	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 11:24	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.308		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	1.00		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:45 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	0.601		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	0.636		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	0.727		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	0.286		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.99		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.5		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	0.344		ug/kg dry	0.250	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:22	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	80.4 %	25-150
Surrogate: M3PFBS	84.6 %	25-150
Surrogate: M5PFHxA	87.4 %	25-150
Surrogate: M5PFHxA	77.9 %	25-150
Surrogate: M4PFHpA	78.2 %	25-150
Surrogate: M4PFHpA	73.7 %	25-150
Surrogate: M3PFHxS	69.9 %	25-150
Surrogate: M3PFHxS	79.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	91.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	84.7 %	25-150
Surrogate: M6PFDA	47.9 %	25-150
Surrogate: M6PFDA	60.9 %	25-150
Surrogate: M7PFUdA	64.1 %	25-150
Surrogate: M7PFUdA	75.8 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	74.3 %	25-150



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

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WESTC028 Westchester Airport Diposal

Soil

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12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	84.1 %			25-150					
	Surrogate: M2PFTeDA	68.2 %			10-150					
	Surrogate: M2PFTeDA	62.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	87.2 %			25-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	60.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	51.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.4 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	85.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	70.2 %			10-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	57.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	65.0 %			25-150					
	Surrogate: d3-N-MeFOSAA	52.5 %			25-150					
	Surrogate: d5-N-EtFOSAA	12.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	55.0 %			25-150					
	Surrogate: M2-6:2 FTS	67.5 %			25-200					
	Surrogate: M2-6:2 FTS	46.1 %			25-200					
	Surrogate: M2-8:2 FTS	19.1 %			25-200					
	Surrogate: M2-8:2 FTS	39.4 %			25-200					
	Surrogate: M9PFNA	54.8 %			25-150					
	Surrogate: M9PFNA	75.8 %			25-150					

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

York Project (SDG) No.

Client Project ID

Matrix

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Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:20	CM
Surrogate Recoveries		Result						Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	76.1 %						30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	91.4 %						30-150			

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:26	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:26	BJ	
Surrogate Recoveries		Result						Acceptance Range			
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	58.2 %						10-130			

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-DRO	31.2		mg/kg dry	10.7	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:36	12/09/2021 13:18	SK	
Surrogate Recoveries		Result						Acceptance Range			
638-68-6	Surrogate: Triacontane	40.8 %						30-150			

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	94.1	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 12:30	12/03/2021 18:48	PD	
Surrogate Recoveries		Result						Acceptance Range			
460-00-4	Surrogate: Surr: p-Bromofluorobenzene	116 %						70-130			

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 8:45 am	12/02/2021

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:43	RTH

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	12/08/2021 18:17	12/08/2021 18:17	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	ND		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	10000		mg/kg dry	1100	1	SM 5220 D Certifications:	12/07/2021 08:40	12/07/2021 13:41	JAG

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.39		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	12/06/2021 14:03	12/06/2021 17:40	MAO

Reactivity-Cyanide

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:45 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	12/09/2021 08:34	12/09/2021 15:02	TJA

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	16.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	12/09/2021 08:41	12/09/2021 15:03	TJA

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	22.8		°C	1.00	1	EPA 170.1 Certifications:	12/06/2021 14:03	12/06/2021 17:40	JAMT

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	12/06/2021 11:21	12/06/2021 12:27	JAMT

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	12/07/2021 17:41	12/07/2021 18:25	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.3		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp



Sample Information

Client Sample ID: S-10

York Sample ID: 21L0141-02

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:45 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW

Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:55 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:20	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:20	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.090	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
67-64-1	Acetone	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-09-2	Methylene chloride	0.067		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0045	0.0090	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:20	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:20	OC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	99.0 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %	76-130								

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:10	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	102 %			65-135						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	99.6 %			86-118						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	104 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 11:35	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 11:35	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: <i>SURR: 2-Fluorophenol</i>	63.7 %			10-90.9						
4165-62-2	Surrogate: <i>SURR: Phenol-d5</i>	50.5 %			10-69.2						
4165-60-0	Surrogate: <i>SURR: Nitrobenzene-d5</i>	75.5 %			19.2-141						



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	73.4 %			24.8-127						
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	99.8 %			23-163						
1718-51-0	Surrogate: SURRE: Terphenyl-d14	86.3 %			25.8-110						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.621		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	2.04		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.768		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	65.0		ug/kg dry	1.17	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 11:36	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.429		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	0.419		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	18.3		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	0.641		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	5.02		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.62		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.234	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:35	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	76.5 %	25-150
Surrogate: M3PFBS	75.2 %	25-150
Surrogate: M5PFHxA	78.5 %	25-150
Surrogate: M5PFHxA	74.0 %	25-150
Surrogate: M4PFHpA	72.8 %	25-150
Surrogate: M4PFHpA	74.7 %	25-150
Surrogate: M3PFHxS	56.1 %	25-150
Surrogate: M3PFHxS	73.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	90.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	87.9 %	25-150
Surrogate: M6PFDA	44.0 %	25-150
Surrogate: M6PFDA	57.1 %	25-150
Surrogate: M7PFUdA	57.5 %	25-150
Surrogate: M7PFUdA	74.2 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	64.2 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	74.0 %	25-150
Surrogate: M2PFTeDA	56.1 %	10-150
Surrogate: M2PFTeDA	48.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.1 %	25-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.3 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.3 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	50.8 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	75.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	80.4 %	25-150



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

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Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 8:55 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.2 %			10-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	56.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	56.5 %			25-150					
	Surrogate: d3-N-MeFOSAA	48.7 %			25-150					
	Surrogate: d5-N-EtFOSAA	76.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	83.2 %			25-150					
	Surrogate: M2-6:2 FTS	47.6 %			25-200					
	Surrogate: M2-6:2 FTS	55.2 %			25-200					
	Surrogate: M2-8:2 FTS	41.3 %			25-200					
	Surrogate: M2-8:2 FTS	35.9 %			25-200					
	Surrogate: M9PFNA	58.2 %			25-150					
	Surrogate: M9PFNA	58.3 %			25-150					

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:36	CM
	Surrogate Recoveries	Result									Acceptance Range
2051-24-3	Surrogate: Decachlorobiphenyl	72.9 %									30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	78.7 %									30-150

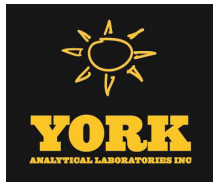
Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:37	BJ



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

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Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for CAS No. 94-75-7 and 19719-28-9.

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for Total Petroleum Hydrocarbons-DRO and Surrogate Recoveries.

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for Total Petroleum Hydrocarbons-GRO and Surrogate Recoveries.

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various metals like Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver.



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

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WESTC028 Westchester Airport Diposal

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Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NIDEP,PADEP,NELAC-NY10854	12/08/2021 18:17	12/08/2021 18:17	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	6.54		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	11000		mg/kg dry	1100	1	SM 5220 D Certifications:	12/07/2021 08:40	12/07/2021 13:41	JAG

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.40		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	12/06/2021 14:03	12/06/2021 17:40	MAO

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	12/09/2021 08:34	12/09/2021 15:02	TJA

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	16.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	12/09/2021 08:41	12/09/2021 15:03	TJA

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	22.9		°C	1.00	1	EPA 170.1 Certifications:	12/06/2021 14:03	12/06/2021 17:40	JAMT



Sample Information

Client Sample ID: S-11

York Sample ID: 21L0141-03

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 8:55 am	<u>Date Received</u> 12/02/2021
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Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	12/07/2021 11:12	12/07/2021 13:21	JAMT

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	12/07/2021 17:41	12/07/2021 18:25	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.4		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:05 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:47	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:47	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.041	0.082	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-09-2	Methylene chloride	0.0095		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 17:47	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0062	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 17:47	OC

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	99.4 %	85-120



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	107 %			76-130						

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 03:37	OC

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	102 %			65-135
2037-26-5	Surrogate: SURRE: Toluene-d8	100 %			86-118
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %			81-114

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 12:05	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:05	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	56.1 %			10-90.9						
4165-62-2	Surrogate: SURR: Phenol-d5	44.4 %			10-69.2						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.5 %			19.2-141						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.3 %			24.8-127						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	90.6 %			23-163						
1718-51-0	Surrogate: SURR: Terphenyl-d14	74.0 %			25.8-110						

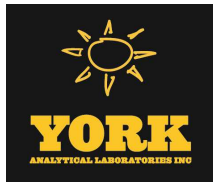
PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.533		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	1.47		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.507		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

Client Project ID

Matrix

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	45.3		ug/kg dry	1.32	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 11:48	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.264		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	0.600		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	0.374		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	0.415		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	12.0		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	0.340		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.86		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	8.48		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	0.337		ug/kg dry	0.263	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:47	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	97.1 %	25-150
Surrogate: M3PFBS	76.7 %	25-150
Surrogate: M5PFHxA	83.5 %	25-150
Surrogate: M5PFHxA	80.0 %	25-150
Surrogate: M4PFHpA	78.5 %	25-150
Surrogate: M4PFHpA	85.9 %	25-150
Surrogate: M3PFHxS	89.9 %	25-150
Surrogate: M3PFHxS	69.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	104 %	25-150





Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

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Client Project ID

Matrix

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21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:05 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	87.8 %				25-150				
	Surrogate: M6PFDA	64.5 %				25-150				
	Surrogate: M6PFDA	66.8 %				25-150				
	Surrogate: M7PFUdA	81.0 %				25-150				
	Surrogate: M7PFUdA	78.4 %				25-150				
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	82.2 %				25-150				
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	82.1 %				25-150				
	Surrogate: M2PFTeDA	64.7 %				10-150				
	Surrogate: M2PFTeDA	69.7 %				10-150				
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	97.6 %				25-150				
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	81.1 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.3 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	66.9 %				25-150				
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	88.3 %				25-150				
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	82.3 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	53.2 %				10-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	75.1 %				10-150				
	Surrogate: d3-N-MeFOSAA	95.5 %				25-150				
	Surrogate: d3-N-MeFOSAA	75.2 %				25-150				
	Surrogate: d5-N-EtFOSAA	82.9 %				25-150				
	Surrogate: d5-N-EtFOSAA	74.7 %				25-150				
	Surrogate: M2-6:2 FTS	78.9 %				25-200				
	Surrogate: M2-6:2 FTS	59.0 %				25-200				
	Surrogate: M2-8:2 FTS	54.8 %				25-200				
	Surrogate: M2-8:2 FTS	48.5 %				25-200				
	Surrogate: M9PFNA	70.9 %				25-150				
	Surrogate: M9PFNA	61.1 %				25-150				

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:05 am	12/02/2021

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 10:53	CM
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	86.9 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	88.8 %			30-150						

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:48	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:48	BJ	
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	75.4 %			10-130						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
Total Petroleum Hydrocarbons-DRO		41.6		mg/kg dry	10.9	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:36	12/09/2021 14:49	SK	
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triacontane	32.4 %			30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
Total Petroleum Hydrocarbons-GRO		ND		mg/kg dry	65.3	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 12:30	12/03/2021 20:03	PD	
Surrogate Recoveries		Result			Acceptance Range						



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

York Project (SDG) No.

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Soil

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Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	108 %			70-130					

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:49	RTH

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	12/08/2021 18:17	12/08/2021 18:17	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	10.6		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	12000		mg/kg dry	1100	1	SM 5220 D Certifications:	12/07/2021 08:40	12/07/2021 13:41	JAG

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:05 am	12/02/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	pH	7.17		pH units	0.500	1	EPA 9045D	12/08/2021 14:10	12/08/2021 19:23	ZTS	
							Certifications: NELAC-NY10854,CTDOH,PADEP				

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	12/09/2021 08:34	12/09/2021 15:02	TJA	
							Certifications: CTDOH,PADEP				

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	* Reactivity - Sulfide	16.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	12/09/2021 08:41	12/09/2021 15:03	TJA	
							Certifications: CTDOH,PADEP				

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	* Temperature	19.9		°C	1.00	1	EPA 170.1	12/08/2021 14:10	12/08/2021 19:23	ZTS	
							Certifications:				

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P	12/07/2021 11:12	12/07/2021 13:21	JAMT	
							Certifications:				

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B	12/07/2021 17:41	12/07/2021 18:25	AA	
							Certifications: NELAC-NY10854,NJDEP				

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
solids	* % Solids	91.2		%	0.100	1	SM 2540G	12/09/2021 09:18	12/09/2021 15:21	VR	
							Certifications: CTDOH				

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp



Sample Information

Client Sample ID: S-12

York Sample ID: 21L0141-04

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:05 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW

Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:25 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 18:14	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 18:14	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
67-64-1	Acetone	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-09-2	Methylene chloride	0.022		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 18:14	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 18:14	OC

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	104 %	77-125
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	99.7 %	85-120
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	106 %	76-130

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:04	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	102 %			65-135						
2037-26-5	Surrogate: SURRE: Toluene-d8	100 %			86-118						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 12:36	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 12:36	KH
	Surrogate Recoveries	Result						Acceptance Range			
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.4 %						10-90.9			
4165-62-2	Surrogate: SURR: Phenol-d5	43.9 %						10-69.2			
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	78.8 %						19.2-141			
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	72.4 %						24.8-127			
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	101 %						23-163			
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.4 %						25.8-110			

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.520		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	0.330		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	0.972		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.549		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	23.7		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.393		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	1.36		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	14.3		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	0.555		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	3.19		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:25 am	<u>Date Received</u> 12/02/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	0.694		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	11.9		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.9		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 19:59	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	77.6 %	25-150
Surrogate: M5PFHxA	76.1 %	25-150
Surrogate: M4PFHpA	62.8 %	25-150
Surrogate: M3PFHxS	68.8 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	81.3 %	25-150
Surrogate: M6PFDA	71.7 %	25-150
Surrogate: M7PFUDA	68.1 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	73.5 %	25-150
Surrogate: M2PFTeDA	53.2 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	75.1 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	62.2 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	83.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	41.0 %	10-150
Surrogate: d3-N-MeFOSAA	53.5 %	25-150
Surrogate: d5-N-EtFOSAA	94.4 %	25-150
Surrogate: M2-6:2 FTS	69.4 %	25-200
Surrogate: M2-8:2 FTS	45.2 %	25-200
Surrogate: M9PFNA	75.0 %	25-150



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:25 am	<u>Date Received</u> 12/02/2021
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Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:10	CM
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	79.6 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	84.3 %			30-150						

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:58	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 15:58	BJ	
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	66.2 %			10-130						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
Total Petroleum Hydrocarbons-DRO		16.5		mg/kg dry	11.0	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:36	12/09/2021 15:19	SK	
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triacontane	40.3 %			30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	92.4	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 12:30	12/03/2021 20:40	PD
	Surrogate Recoveries	Result					Acceptance Range			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	111 %					70-130			

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 12:53	RTH

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	12/08/2021 18:17	12/08/2021 18:17	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	ND		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:25 am

12/02/2021

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Chemical Oxygen Demand (COD)		8500		mg/kg dry	1100	1	SM 5220 D	12/07/2021 08:40	12/07/2021 13:41	JAG

Certifications:

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
pH		7.54		pH units	0.500	1	EPA 9045D	12/08/2021 14:10	12/08/2021 19:23	ZTS

Certifications: NELAC-NY10854,CTDOH,PADEP

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Reactivity - Cyanide		ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	12/09/2021 08:34	12/09/2021 15:02	TJA

Certifications: CTDOH,PADEP

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Reactivity - Sulfide		16.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	12/09/2021 08:41	12/09/2021 15:03	TJA

Certifications: CTDOH,PADEP

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Temperature		20.5		°C	1.00	1	EPA 170.1	12/08/2021 14:10	12/08/2021 19:23	ZTS

Certifications:

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Ignitability		Non-Ignit.		None	1	1	EPA 1030P	12/07/2021 11:12	12/07/2021 13:21	JAMT

Certifications:

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Paint Filter Test		No Free Liquid		None	0.05	1	EPA 9095B	12/07/2021 17:41	12/07/2021 18:25	AA

Certifications: NELAC-NY10854,NJDEP

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-13

York Sample ID: 21L0141-05

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:25 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
solids	* % Solids	88.9		%	0.100	1	SM 2540G	12/09/2021 09:18	12/09/2021 15:21	VR	
							Certifications:	CTDOH			

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/07/2021 17:23	12/08/2021 14:20	MEW	
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/07/2021 17:12	12/08/2021 12:49	TAJ	
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/07/2021 16:09	12/08/2021 14:09	MEW	
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:30 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C	12/07/2021 09:00	12/07/2021 19:17	OC
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C	12/07/2021 09:00	12/07/2021 19:17	OC
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C	12/07/2021 09:00	12/07/2021 19:17	OC
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C	12/07/2021 09:00	12/07/2021 19:17	OC
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C	12/07/2021 09:00	12/07/2021 19:17	OC
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:30 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 19:17	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
67-64-1	Acetone	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:30 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-09-2	Methylene chloride	0.085		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:30 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2021 09:00	12/07/2021 19:17	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/07/2021 09:00	12/07/2021 19:17	OC
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	118 %		77-125							
2037-26-5	Surrogate: SURRE: Toluene-d8	82.3 %	S-08	85-120							
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	94.7 %		76-130							

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:30 am

12/02/2021

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:31	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	101 %			65-135						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	99.7 %			86-118						
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	106 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 13:07	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

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Matrix

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21L0141

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Soil

December 2, 2021 9:30 am

12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:07	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	53.2 %			10-90.9						
4165-62-2	Surrogate: SURR: Phenol-d5	40.9 %			10-69.2						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.6 %			19.2-141						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	62.4 %			24.8-127						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	83.3 %			23-163						
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.5 %			25.8-110						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.507		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	1.17		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.368		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	27.0		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.322		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	2.38		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

Client Project ID

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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	2.45		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	0.488		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	4.30		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	6.38		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.48		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.248	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:11	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	70.0 %	25-150
Surrogate: M5PFHxA	72.4 %	25-150
Surrogate: M4PFHpA	61.5 %	25-150
Surrogate: M3PFHxS	64.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	75.1 %	25-150
Surrogate: M6PFDA	43.8 %	25-150
Surrogate: M7PFUdA	65.2 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	69.2 %	25-150
Surrogate: M2PFTeDA	58.7 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	74.3 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	50.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	72.4 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	47.9 %	10-150
Surrogate: d3-N-MeFOSAA	57.6 %	25-150





Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:30 am	<u>Date Received</u> 12/02/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d5-N-EtFOSAA	54.6 %			25-150					
	Surrogate: M2-6:2 FTS	42.2 %			25-200					
	Surrogate: M2-8:2 FTS	47.6 %			25-200					
	Surrogate: M9PFNA	61.9 %			25-150					

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:27	CM
	Surrogate Recoveries	Result						Acceptance Range			
2051-24-3	Surrogate: Decachlorobiphenyl	73.3 %						30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	76.7 %						30-150			

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:09	BJ
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:09	BJ
	Surrogate Recoveries	Result						Acceptance Range		
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	59.4 %						10-130		

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

York Project (SDG) No.

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Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	80.4		mg/kg dry	10.3	1	EPA 8015D	12/08/2021 13:36	12/09/2021 15:49	SK
							Certifications: NELAC-NY10854,NJDEP,PADEP			
	Surrogate Recoveries	Result					Acceptance Range			
638-68-6	Surrogate: Triacontane	43.7 %					30-150			

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	75.3	100	EPA 8015D	12/03/2021 12:30	12/03/2021 21:17	PD
							Certifications: NELAC-NY10854,NJDEP,PADEP			
	Surrogate Recoveries	Result					Acceptance Range			
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %					70-130			

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:56	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311	12/08/2021 18:17	12/08/2021 18:17	AD
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

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Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:30 am	12/02/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	ND		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	11000		mg/kg dry	1100	1	SM 5220 D Certifications:	12/07/2021 08:40	12/07/2021 13:41	JAG

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.15		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	12/08/2021 14:10	12/08/2021 19:23	ZTS

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	12/09/2021 08:34	12/09/2021 15:02	TJA

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	24.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	12/09/2021 08:41	12/09/2021 15:03	TJA

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	20.3		°C	1.00	1	EPA 170.1 Certifications:	12/08/2021 14:10	12/08/2021 19:23	ZTS

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	12/07/2021 11:12	12/07/2021 13:21	JAMT

Paint Filter Test

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-14

York Sample ID: 21L0141-06

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:30 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	12/07/2021 17:41	12/07/2021 18:25	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.6		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCs/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW

Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:40 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:40 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/08/2021 09:00	12/09/2021 04:58	OC
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/08/2021 09:00	12/09/2021 04:58	OC
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.42	0.85	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
67-64-1	Acetone	ND		mg/kg dry	0.042	0.085	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:40 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		mg/kg dry	0.042	0.085	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
71-43-2	Benzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-25-2	Bromoform	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
67-66-3	Chloroform	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:40 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-09-2	Methylene chloride	0.055	J	mg/kg dry	0.042	0.085	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.042	0.085	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
100-42-5	Styrene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
108-88-3	Toluene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.021	0.042	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 04:58	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.064	0.13	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/08/2021 09:00	12/09/2021 04:58	OC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	99.2 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	104 %	76-130								



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:40 am	<u>Date Received</u> 12/02/2021
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Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 04:58	OC

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	106 %	65-135
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	99.2 %	86-118
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	104 %	81-114

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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21L0141

WESTC028 Westchester Airport Diposal

Soil

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12/02/2021

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 13:38	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 13:38	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: SURR: 2-Fluorophenol	52.8 %			10-90.9						
4165-62-2	Surrogate: SURR: Phenol-d5	39.8 %			10-69.2						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	68.3 %			19.2-141						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.3 %			24.8-127						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	85.3 %			23-163						
1718-51-0	Surrogate: SURR: Terphenyl-d14	73.4 %			25.8-110						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	0.531		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	1.88		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	0.522		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	65.7		ug/kg dry	1.08	5	EPA 537m Certifications:	12/06/2021 17:01	12/09/2021 12:00	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.410		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

York Project (SDG) No.

Client Project ID

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Soil

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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	0.722		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
72629-94-8	* Perfluorotridecanoic acid (PFTriDA)	0.397		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	21.5		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	0.292		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	5.16		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	5.56		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.215	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:24	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	78.5 %	25-150
Surrogate: M3PFBS	78.3 %	25-150
Surrogate: M5PFHxA	83.3 %	25-150
Surrogate: M5PFHxA	84.9 %	25-150
Surrogate: M4PFHpA	79.3 %	25-150
Surrogate: M4PFHpA	72.8 %	25-150
Surrogate: M3PFHxS	64.8 %	25-150
Surrogate: M3PFHxS	79.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	88.3 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	79.2 %	25-150
Surrogate: M6PFDA	52.1 %	25-150
Surrogate: M6PFDA	77.7 %	25-150
Surrogate: M7PFUdA	74.0 %	25-150
Surrogate: M7PFUdA	56.4 %	25-150





Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	83.1 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	28.1 %			25-150					
	Surrogate: M2PFTeDA	67.2 %			10-150					
	Surrogate: M2PFTeDA	63.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.6 %			25-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	87.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	55.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	53.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	82.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	53.6 %			10-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	60.7 %			25-150					
	Surrogate: d3-N-MeFOSAA	30.3 %			25-150					
	Surrogate: d5-N-EtFOSAA	71.3 %			25-150					
	Surrogate: d5-N-EtFOSAA	64.0 %			25-150					
	Surrogate: M2-6:2 FTS	47.8 %			25-200					
	Surrogate: M2-6:2 FTS	74.5 %			25-200					
	Surrogate: M2-8:2 FTS	43.1 %			25-200					
	Surrogate: M2-8:2 FTS	14.8 %			25-200					
	Surrogate: M9PFNA	77.8 %			25-150					
	Surrogate: M9PFNA	71.6 %			25-150					

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM



Sample Information

Client Sample ID: S-15

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Soil

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Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 11:44	CM
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	88.0 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	87.9 %			30-150						

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:20	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:20	BJ	
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	59.2 %			10-130						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-DRO	26.3		mg/kg dry	10.7	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:36	12/09/2021 16:19	SK	
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triacotane	44.1 %			30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	71.2	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 12:30	12/03/2021 21:54	PD	
Surrogate Recoveries		Result			Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			70-130						

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

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Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:40 am	12/02/2021

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7440-39-3	Barium	0.767		mg/L	0.625	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	12/08/2021 15:02	12/09/2021 12:59	RTH
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP										

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311	12/09/2021 14:06	12/09/2021 14:06	AD
Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854										

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	6.80		mg/kg	5.00	1	SM 4500-NH3 D	12/07/2021 15:27	12/07/2021 20:34	ZTS
Certifications:										

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	10000		mg/kg dry	1100	1	SM 5220 D	12/07/2021 08:40	12/07/2021 13:41	JAG
Certifications:										

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.19		pH units	0.500	1	EPA 9045D	12/08/2021 14:10	12/08/2021 19:23	ZTS
Certifications: NELAC-NY10854,CTDOH,PADEP										

Reactivity-Cyanide

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:40 am	12/02/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	12/09/2021 08:34	12/09/2021 15:02	TJA

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	12/09/2021 08:41	12/09/2021 15:03	TJA

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	20.3		°C	1.00	1	EPA 170.1 Certifications:	12/08/2021 14:10	12/08/2021 19:23	ZTS

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	12/07/2021 11:12	12/07/2021 13:21	JAMT

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	12/07/2021 17:41	12/07/2021 18:25	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.0		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCs/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp



Sample Information

Client Sample ID: S-15

York Sample ID: 21L0141-07

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21L0141, WESTC028 Westchester Airport Diposal, Soil, December 2, 2021 9:40 am, 12/02/2021

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Values: TCLP Extraction, Completed, N/A, 1.00, 1, EPA 1311, 12/07/2021 17:12, 12/08/2021 12:49, TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Values: TCLP Extraction, Completed, N/A, 1.00, 1, EPA 1311, 12/07/2021 16:09, 12/08/2021 14:09, MEW

Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21L0141, WESTC028 Westchester Airport Diposal, Soil, December 2, 2021 9:50 am, 12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chemical compounds and their results (ND).



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:50 am	<u>Date Received</u> 12/02/2021
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Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.48	0.97	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
78-93-3	2-Butanone	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
591-78-6	2-Hexanone	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
67-64-1	Acetone	ND		mg/kg dry	0.048	0.097	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
107-02-8	Acrolein	ND		mg/kg dry	0.048	0.097	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
107-13-1	Acrylonitrile	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
71-43-2	Benzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
74-97-5	Bromochloromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-25-2	Bromoform	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
74-83-9	Bromomethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-15-0	Carbon disulfide	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
108-90-7	Chlorobenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-00-3	Chloroethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:50 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
74-87-3	Chloromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
110-82-7	Cyclohexane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
74-95-3	Dibromomethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
79-20-9	Methyl acetate	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-09-2	Methylene chloride	0.059	J	mg/kg dry	0.048	0.097	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
95-47-6	o-Xylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.048	0.097	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
100-42-5	Styrene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:50 am

12/02/2021

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
108-88-3	Toluene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
79-01-6	Trichloroethylene	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.024	0.048	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 09:00	12/09/2021 05:25	OC
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.073	0.15	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/08/2021 09:00	12/09/2021 05:25	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.7 %			85-120						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %			76-130						

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:50 am

12/02/2021

Volatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/08/2021 12:30	12/09/2021 05:25	OC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	103 %			65-135						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	99.7 %			86-118						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	105 %			81-114						

Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
95-48-7	2-Methylphenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
1319-77-3	Cresols, total	ND		mg/L	0.0200	0.0300	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	12/08/2021 13:33	12/09/2021 14:09	KH
118-74-1	Hexachlorobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
87-68-3	Hexachlorobutadiene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
67-72-1	Hexachloroethane	ND		mg/L	0.00250	0.00500	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
98-95-3	Nitrobenzene	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
87-86-5	Pentachlorophenol	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
110-86-1	Pyridine	ND		mg/L	0.00500	0.0100	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 13:33	12/09/2021 14:09	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: <i>SURR: 2-Fluorophenol</i>	54.7 %			10-90.9						
4165-62-2	Surrogate: <i>SURR: Phenol-d5</i>	38.6 %			10-69.2						
4165-60-0	Surrogate: <i>SURR: Nitrobenzene-d5</i>	74.2 %			19.2-141						



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:50 am	<u>Date Received</u> 12/02/2021
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Semivolatiles, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	67.2 %			24.8-127						
118-79-6	Surrogate: SURRE: 2,4,6-Tribromophenol	90.1 %			23-163						
1718-51-0	Surrogate: SURRE: Terphenyl-d14	77.0 %			25.8-110						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	0.888		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	34.7		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
375-95-1	* Perfluorononanoic acid (PFNA)	0.276		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	0.617		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	7.65		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:50 am

12/02/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1.25		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1.61		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.244	1	EPA 537m Certifications:	12/06/2021 17:01	12/08/2021 20:36	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	75.0 %	25-150
Surrogate: M5PFHxA	77.4 %	25-150
Surrogate: M4PFHpA	72.0 %	25-150
Surrogate: M3PFHxS	63.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	79.5 %	25-150
Surrogate: M6PFDA	53.0 %	25-150
Surrogate: M7PFUdA	57.1 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	63.3 %	25-150
Surrogate: M2PFTeDA	48.2 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.2 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	83.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	37.8 %	10-150
Surrogate: d3-N-MeFOSAA	46.1 %	25-150
Surrogate: d5-N-EtFOSAA	43.9 %	25-150
Surrogate: M2-6:2 FTS	59.2 %	25-200
Surrogate: M2-8:2 FTS	51.0 %	25-200
Surrogate: M9PFNA	56.0 %	25-150

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM
76-44-8	Heptachlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0141

WESTC028 Westchester Airport Diposal

Soil

December 2, 2021 9:50 am

12/02/2021

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM
72-43-5	Methoxychlor	ND		mg/L	0.0000444	0.0000444	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM
8001-35-2	Toxaphene	ND		mg/L	0.00111	0.00111	1	EPA 8081B/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 17:57	12/09/2021 12:00	CM
Surrogate Recoveries		Result			Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	79.3 %			30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	82.1 %			30-150						

Herbicides, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
93-72-1	2,4,5-TP (Silvex)	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:31	BJ	
94-75-7	2,4-D	ND		mg/L	0.00500	1	EPA 8151A/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/09/2021 08:05	12/09/2021 16:31	BJ	
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	60.2 %			10-130						

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-DRO	48.1		mg/kg dry	10.3	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 14:55	12/06/2021 01:22	SK	
Surrogate Recoveries		Result			Acceptance Range						
638-68-6	Surrogate: Triacotane	63.9 %			30-150						

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	78.9	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	12/03/2021 12:30	12/03/2021 22:31	PD	
Surrogate Recoveries		Result			Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			70-130						

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

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132-02 89th AVENUE
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Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0141	WESTC028 Westchester Airport Diposal	Soil	December 2, 2021 9:50 am	12/02/2021

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7440-39-3	Barium	0.765		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/08/2021 15:02	12/09/2021 13:09	RTH

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	12/09/2021 14:06	12/09/2021 14:06	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	ND		mg/kg	5.00	1	SM 4500-NH3 D Certifications:	12/07/2021 15:27	12/07/2021 20:34	ZTS

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chemical Oxygen Demand (COD)	12000		mg/kg dry	1100	1	SM 5220 D Certifications:	12/07/2021 08:40	12/07/2021 13:41	JAG

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.32		pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	12/08/2021 14:10	12/08/2021 19:23	ZTS

Reactivity-Cyanide

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:50 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	12/09/2021 08:34	12/09/2021 15:02	TJA

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	24.0		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4 Certifications: CTDOH,PADEP	12/09/2021 08:41	12/09/2021 15:03	TJA

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	20.4		°C	1.00	1	EPA 170.1 Certifications:	12/08/2021 14:10	12/08/2021 19:23	ZTS

Ignitability

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		None	1	1	EPA 1030P Certifications:	12/07/2021 11:12	12/07/2021 13:21	JAMT

Paint Filter Test

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Paint Filter Test	No Free Liquid		None	0.05	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	12/07/2021 17:41	12/07/2021 18:25	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.2		%	0.100	1	SM 2540G Certifications: CTDOH	12/09/2021 09:18	12/09/2021 15:21	VR

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:23	12/08/2021 14:20	MEW

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes: EXT-Temp



Sample Information

Client Sample ID: S-16

York Sample ID: 21L0141-08

<u>York Project (SDG) No.</u> 21L0141	<u>Client Project ID</u> WESTC028 Westchester Airport Diposal	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 2, 2021 9:50 am	<u>Date Received</u> 12/02/2021
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Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 17:12	12/08/2021 12:49	TAJ

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/07/2021 16:09	12/08/2021 14:09	MEW



Analytical Batch Summary

Batch ID: BL11373 **Preparation Method:** EPA 5035A **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-02	S-10	12/03/21
21L0141-03	S-11	12/03/21
21L0141-04	S-12	12/03/21
21L0141-05	S-13	12/03/21
21L0141-06	S-14	12/03/21
21L0141-07	S-15	12/03/21
21L0141-08	S-16	12/03/21
BL11373-BLK1	Blank	12/03/21
BL11373-DUP1	Duplicate	12/03/21
BL11373-MS1	Matrix Spike	12/03/21
BL11373-SRM1	Reference	12/03/21

Batch ID: BL11386 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-08	S-16	12/03/21
BL11386-BLK1	Blank	12/03/21
BL11386-BS1	LCS	12/03/21
BL11386-MS1	Matrix Spike	12/03/21
BL11386-MSD1	Matrix Spike Dup	12/03/21

Batch ID: BL11451 **Preparation Method:** Analysis Preparation **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/06/21
21L0141-02	S-10	12/06/21

Batch ID: BL11466 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/06/21
21L0141-01	S-9	12/06/21
21L0141-02	S-10	12/06/21
21L0141-02	S-10	12/06/21
21L0141-03	S-11	12/06/21
21L0141-03	S-11	12/06/21
BL11466-DUP1	Duplicate	12/06/21

Batch ID: BL11489 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/06/21
21L0141-01RE1	S-9	12/06/21



21L0141-02	S-10	12/06/21
21L0141-02RE1	S-10	12/06/21
21L0141-03	S-11	12/06/21
21L0141-03RE1	S-11	12/06/21
21L0141-04	S-12	12/06/21
21L0141-04RE1	S-12	12/06/21
21L0141-05	S-13	12/06/21
21L0141-06	S-14	12/06/21
21L0141-07	S-15	12/06/21
21L0141-07RE1	S-15	12/06/21
21L0141-08	S-16	12/06/21
BL11489-BLK1	Blank	12/06/21
BL11489-BS1	LCS	12/06/21
BL11489-MS1	Matrix Spike	12/06/21
BL11489-MSD1	Matrix Spike Dup	12/06/21

Batch ID: BL11514 **Preparation Method:** EPA 5035A **Prepared By:** OC

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-06	S-14	12/07/21
BL11514-BLK1	Blank	12/07/21
BL11514-BLK2	Blank	12/07/21
BL11514-BS1	LCS	12/07/21
BL11514-BSD1	LCS Dup	12/07/21

Batch ID: BL11515 **Preparation Method:** EPA 5035A **Prepared By:** OC

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
BL11515-BLK1	Blank	12/07/21
BL11515-BLK2	Blank	12/07/21
BL11515-BS1	LCS	12/07/21
BL11515-BSD1	LCS Dup	12/07/21
BL11515-MS1	Matrix Spike	12/07/21
BL11515-MSD1	Matrix Spike Dup	12/07/21

Batch ID: BL11520 **Preparation Method:** Analysis Preparation **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21



21L0141-08	S-16	12/07/21
BL11520-BLK1	Blank	12/07/21
BL11520-BS1	LCS	12/07/21
BL11520-DUP1	Duplicate	12/07/21
BL11520-MS1	Matrix Spike	12/07/21

Batch ID: BL11538 **Preparation Method:** Analysis Preparation **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21

Batch ID: BL11545 **Preparation Method:** EPA 5035A **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
BL11545-BLK1	Blank	12/07/21
BL11545-DUP1	Duplicate	12/07/21
BL11545-MS1	Matrix Spike	12/07/21
BL11545-SRM1	Reference	12/07/21

Batch ID: BL11574 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21
BL11574-BLK1	Blank	12/07/21
BL11574-DUP1	Duplicate	12/07/21
BL11574-SRM1	Reference	12/07/21

Batch ID: BL11580 **Preparation Method:** EPA SW 846-1311 TCLP ZHE for VO **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21



21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21
BL11580-BLK1	Blank	12/07/21

Batch ID: BL11598 **Preparation Method:** EPA SW 846-1311 TCLP extr. for SVOC **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21
BL11598-BLK1	Blank	12/07/21

Batch ID: BL11601 **Preparation Method:** EPA SW 846-1311 TCLP ext. for metals **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21
BL11601-BLK1	Blank	12/07/21

Batch ID: BL11603 **Preparation Method:** Analysis Preparation **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/07/21
21L0141-02	S-10	12/07/21
21L0141-03	S-11	12/07/21
21L0141-04	S-12	12/07/21
21L0141-05	S-13	12/07/21
21L0141-06	S-14	12/07/21
21L0141-07	S-15	12/07/21
21L0141-08	S-16	12/07/21

Batch ID: BL11621 **Preparation Method:** EPA 5035A **Prepared By:** OC

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21
BL11621-BLK1	Blank	12/08/21
BL11621-BLK2	Blank	12/08/21



BL11621-BS1 LCS 12/08/21
BL11621-BSD1 LCS Dup 12/08/21

Batch ID: BL11637 **Preparation Method:** EPA 3015A/1311 **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21
BL11637-BLK1	Blank	12/08/21
BL11637-BS1	LCS	12/08/21
BL11637-DUP1	Duplicate	12/08/21
BL11637-LBK1	Leach Fluid Blank	12/08/21
BL11637-MS1	Matrix Spike	12/08/21
BL11637-PS1	Post Spike	12/08/21

Batch ID: BL11645 **Preparation Method:** EPA 3510C/1311 **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21

Batch ID: BL11647 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
BL11647-BLK1	Blank	12/08/21
BL11647-BS1	LCS	12/08/21
BL11647-MS1	Matrix Spike	12/08/21
BL11647-MSD1	Matrix Spike Dup	12/08/21

Batch ID: BL11652 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS



YORK Sample ID	Client Sample ID	Preparation Date
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21
BL11652-DUP1	Duplicate	12/08/21

Batch ID: BL11667 **Preparation Method:** EPA 5030B/1311 **Prepared By:** OC

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21
BL11667-BLK1	Blank	12/08/21
BL11667-BS1	LCS	12/08/21
BL11667-BSD1	LCS Dup	12/08/21
BL11667-LBK1	Leach Fluid Blank	12/08/21

Batch ID: BL11674 **Preparation Method:** EPA 3510C/1311 **Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
21L0141-07	S-15	12/08/21
21L0141-08	S-16	12/08/21
BL11674-BLK1	Blank	12/08/21
BL11674-BS1	LCS	12/08/21
BL11674-BSD1	LCS Dup	12/08/21

Batch ID: BL11675 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/08/21
21L0141-02	S-10	12/08/21
21L0141-03	S-11	12/08/21
21L0141-04	S-12	12/08/21
21L0141-05	S-13	12/08/21
21L0141-06	S-14	12/08/21
BL11675-BLK1	Blank	12/08/21
BL11675-BLK2	Blank	12/08/21



BL11675-BS1 LCS 12/08/21
BL11675-BS2 LCS 12/08/21

Batch ID: BL11697 **Preparation Method:** EPA 3535A/1311 **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/09/21
21L0141-02	S-10	12/09/21
21L0141-03	S-11	12/09/21
21L0141-04	S-12	12/09/21
21L0141-05	S-13	12/09/21
21L0141-06	S-14	12/09/21
21L0141-07	S-15	12/09/21
21L0141-08	S-16	12/09/21
BL11697-BLK1	Blank	12/09/21
BL11697-BS1	LCS	12/09/21
BL11697-BSD1	LCS Dup	12/09/21
BL11697-MS1	Matrix Spike	12/09/21

Batch ID: BL11700 **Preparation Method:** Analysis Preparation **Prepared By:** TJA

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/09/21
21L0141-02	S-10	12/09/21
21L0141-03	S-11	12/09/21
21L0141-04	S-12	12/09/21
21L0141-05	S-13	12/09/21
21L0141-06	S-14	12/09/21
21L0141-07	S-15	12/09/21
21L0141-08	S-16	12/09/21
BL11700-BLK1	Blank	12/09/21

Batch ID: BL11701 **Preparation Method:** Analysis Preparation **Prepared By:** TJA

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-01	S-9	12/09/21
21L0141-02	S-10	12/09/21
21L0141-03	S-11	12/09/21
21L0141-04	S-12	12/09/21
21L0141-05	S-13	12/09/21
21L0141-06	S-14	12/09/21
21L0141-07	S-15	12/09/21
21L0141-08	S-16	12/09/21
BL11701-BLK1	Blank	12/09/21
BL11701-DUP1	Duplicate	12/09/21

Batch ID: BL11706 **Preparation Method:** % Solids Prep **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
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21L0141-01	S-9	12/09/21
21L0141-02	S-10	12/09/21
21L0141-03	S-11	12/09/21
21L0141-04	S-12	12/09/21
21L0141-05	S-13	12/09/21
21L0141-06	S-14	12/09/21
21L0141-07	S-15	12/09/21
21L0141-08	S-16	12/09/21
BL11706-DUP1	Duplicate	12/09/21

Batch ID: BL11741 **Preparation Method:** EPA SW846-7470A **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
21L0141-07	S-15	12/09/21
21L0141-08	S-16	12/09/21
BL11741-BLK1	Blank	12/09/21
BL11741-BLK2	Blank	12/09/21
BL11741-BS1	LCS	12/09/21
BL11741-BS2	LCS	12/09/21



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
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Batch BL11514 - EPA 5035A

Blank (BL11514-BLK1)

Prepared & Analyzed: 12/07/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit			Result	Limits	Limit				

Batch BL11514 - EPA 5035A

Blank (BL11514-BLK1)

Prepared & Analyzed: 12/07/2021

Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>77-125</i>				
<i>Surrogate: SURRE: Toluene-d8</i>	<i>46.2</i>		<i>"</i>	<i>50.0</i>		<i>92.5</i>	<i>85-120</i>				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	<i>48.1</i>		<i>"</i>	<i>50.0</i>		<i>96.2</i>	<i>76-130</i>				

Blank (BL11514-BLK2)

Prepared & Analyzed: 12/07/2021

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								



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
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Batch BL11514 - EPA 5035A

Blank (BL11514-BLK2)

Prepared & Analyzed: 12/07/2021

Bromochloromethane	ND	0.50	mg/kg wet								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.7		ug/L	50.0		105	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	45.4		"	50.0		90.9	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	48.2		"	50.0		96.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
		Limit			Result				RPD		
Batch BL11514 - EPA 5035A											
LCS (BL11514-BS1)											
Prepared & Analyzed: 12/07/2021											
1,1,1,2-Tetrachloroethane	47.1		ug/L	50.0		94.3	75-129				
1,1,1-Trichloroethane	48.6		"	50.0		97.1	71-137				
1,1,2,2-Tetrachloroethane	46.9		"	50.0		93.9	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.6		"	50.0		101	58-146				
1,1,2-Trichloroethane	46.0		"	50.0		92.0	83-123				
1,1-Dichloroethane	47.8		"	50.0		95.6	75-130				
1,1-Dichloroethylene	50.3		"	50.0		101	64-137				
1,2,3-Trichlorobenzene	45.6		"	50.0		91.3	81-140				
1,2,3-Trichloropropane	47.4		"	50.0		94.8	81-126				
1,2,4-Trichlorobenzene	46.2		"	50.0		92.4	80-141				
1,2,4-Trimethylbenzene	47.0		"	50.0		93.9	84-125				
1,2-Dibromo-3-chloropropane	40.8		"	50.0		81.6	74-142				
1,2-Dibromoethane	48.5		"	50.0		97.0	86-123				
1,2-Dichlorobenzene	45.8		"	50.0		91.7	85-122				
1,2-Dichloroethane	49.3		"	50.0		98.6	71-133				
1,2-Dichloropropane	46.7		"	50.0		93.4	81-122				
1,3,5-Trimethylbenzene	46.0		"	50.0		92.0	82-126				
1,3-Dichlorobenzene	46.1		"	50.0		92.2	84-124				
1,4-Dichlorobenzene	46.5		"	50.0		93.0	84-124				
1,4-Dioxane	705		"	1050		67.1	10-228				
2-Butanone	47.2		"	50.0		94.3	58-147				
2-Hexanone	41.4		"	50.0		82.8	70-139				
4-Methyl-2-pentanone	46.0		"	50.0		92.1	72-132				
Acetone	33.9		"	50.0		67.9	36-155				
Acrolein	111		"	50.0		223	10-238				
Acrylonitrile	50.7		"	50.0		101	66-141				
Benzene	49.8		"	50.0		99.7	77-127				
Bromochloromethane	49.0		"	50.0		98.0	74-129				
Bromodichloromethane	42.1		"	50.0		84.2	81-124				
Bromoform	42.0		"	50.0		84.0	80-136				
Bromomethane	55.6		"	50.0		111	32-177				
Carbon disulfide	58.8		"	50.0		118	10-136				
Carbon tetrachloride	49.5		"	50.0		98.9	66-143				
Chlorobenzene	48.6		"	50.0		97.2	86-120				
Chloroethane	53.8		"	50.0		108	51-142				
Chloroform	49.2		"	50.0		98.3	76-131				
Chloromethane	60.3		"	50.0		121	49-132				
cis-1,2-Dichloroethylene	48.1		"	50.0		96.2	74-132				
cis-1,3-Dichloropropylene	43.2		"	50.0		86.3	81-129				
Cyclohexane	49.6		"	50.0		99.2	70-130				
Dibromochloromethane	41.4		"	50.0		82.8	10-200				
Dibromomethane	46.7		"	50.0		93.3	83-124				
Dichlorodifluoromethane	96.2		"	50.0		192	28-158	High Bias			
Ethyl Benzene	48.0		"	50.0		96.0	84-125				
Hexachlorobutadiene	43.3		"	50.0		86.5	83-133				
Isopropylbenzene	47.2		"	50.0		94.3	81-127				
Methyl acetate	48.7		"	50.0		97.4	41-143				
Methyl tert-butyl ether (MTBE)	51.1		"	50.0		102	74-131				
Methylcyclohexane	46.4		"	50.0		92.7	70-130				
Methylene chloride	47.1		"	50.0		94.1	57-141				



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 BL11514 - EPA 5035A											
LCS (BL11514-BS1)											
Prepared & Analyzed: 12/07/2021											
n-Butylbenzene	46.3		ug/L	50.0		92.6	80-130				
n-Propylbenzene	46.5		"	50.0		92.9	74-136				
o-Xylene	49.7		"	50.0		99.4	83-123				
p- & m- Xylenes	86.5		"	100		86.5	82-128				
p-Isopropyltoluene	47.0		"	50.0		93.9	85-125				
sec-Butylbenzene	46.3		"	50.0		92.6	83-125				
Styrene	48.9		"	50.0		97.9	86-126				
tert-Butyl alcohol (TBA)	250		"	250		100	70-130				
tert-Butylbenzene	46.1		"	50.0		92.2	80-127				
Tetrachloroethylene	42.8		"	50.0		85.5	80-129				
Toluene	46.6		"	50.0		93.2	85-121				
trans-1,2-Dichloroethylene	49.6		"	50.0		99.1	72-132				
trans-1,3-Dichloropropylene	42.3		"	50.0		84.6	78-132				
Trichloroethylene	46.2		"	50.0		92.3	84-123				
Trichlorofluoromethane	52.7		"	50.0		105	62-140				
Vinyl Chloride	59.4		"	50.0		119	52-130				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>48.0</i>		<i>"</i>	<i>50.0</i>		<i>96.0</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>48.7</i>		<i>"</i>	<i>50.0</i>		<i>97.3</i>	<i>76-130</i>				
LCS Dup (BL11514-BS1)											
Prepared & Analyzed: 12/07/2021											
1,1,1,2-Tetrachloroethane	51.4		ug/L	50.0		103	75-129		8.65	30	
1,1,1-Trichloroethane	54.7		"	50.0		109	71-137		11.8	30	
1,1,2,2-Tetrachloroethane	51.2		"	50.0		102	79-129		8.70	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55.4		"	50.0		111	58-146		9.12	30	
1,1,2-Trichloroethane	49.9		"	50.0		99.9	83-123		8.24	30	
1,1-Dichloroethane	53.4		"	50.0		107	75-130		11.0	30	
1,1-Dichloroethylene	56.1		"	50.0		112	64-137		10.8	30	
1,2,3-Trichlorobenzene	49.3		"	50.0		98.6	81-140		7.69	30	
1,2,3-Trichloropropane	51.3		"	50.0		103	81-126		7.91	30	
1,2,4-Trichlorobenzene	49.8		"	50.0		99.7	80-141		7.60	30	
1,2,4-Trimethylbenzene	50.5		"	50.0		101	84-125		7.30	30	
1,2-Dibromo-3-chloropropane	47.0		"	50.0		94.0	74-142		14.2	30	
1,2-Dibromoethane	52.4		"	50.0		105	86-123		7.65	30	
1,2-Dichlorobenzene	49.3		"	50.0		98.6	85-122		7.32	30	
1,2-Dichloroethane	55.0		"	50.0		110	71-133		10.9	30	
1,2-Dichloropropane	50.7		"	50.0		101	81-122		8.13	30	
1,3,5-Trimethylbenzene	49.6		"	50.0		99.2	82-126		7.55	30	
1,3-Dichlorobenzene	49.7		"	50.0		99.4	84-124		7.50	30	
1,4-Dichlorobenzene	49.9		"	50.0		99.7	84-124		7.02	30	
1,4-Dioxane	756		"	1050		72.0	10-228		6.98	30	
2-Butanone	55.7		"	50.0		111	58-147		16.6	30	
2-Hexanone	44.7		"	50.0		89.4	70-139		7.64	30	
4-Methyl-2-pentanone	50.2		"	50.0		100	72-132		8.71	30	
Acetone	38.7		"	50.0		77.3	36-155		13.1	30	
Acrolein	122		"	50.0		244	10-238	High Bias	9.04	30	
Acrylonitrile	55.6		"	50.0		111	66-141		9.14	30	
Benzene	55.8		"	50.0		112	77-127		11.3	30	
Bromochloromethane	54.6		"	50.0		109	74-129		10.8	30	
Bromodichloromethane	45.8		"	50.0		91.5	81-124		8.36	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 BL11514 - EPA 5035A											
LCS Dup (BL11514-BSD1)											
Prepared & Analyzed: 12/07/2021											
Bromoform	46.2		ug/L	50.0		92.5	80-136		9.59	30	
Bromomethane	63.7		"	50.0		127	32-177		13.6	30	
Carbon disulfide	66.0		"	50.0		132	10-136		11.5	30	
Carbon tetrachloride	55.7		"	50.0		111	66-143		11.9	30	
Chlorobenzene	52.7		"	50.0		105	86-120		8.03	30	
Chloroethane	61.7		"	50.0		123	51-142		13.8	30	
Chloroform	54.7		"	50.0		109	76-131		10.7	30	
Chloromethane	67.3		"	50.0		135	49-132	High Bias	11.0	30	
cis-1,2-Dichloroethylene	53.5		"	50.0		107	74-132		10.7	30	
cis-1,3-Dichloropropylene	47.1		"	50.0		94.2	81-129		8.77	30	
Cyclohexane	55.4		"	50.0		111	70-130		11.0	30	
Dibromochloromethane	45.4		"	50.0		90.8	10-200		9.26	30	
Dibromomethane	50.5		"	50.0		101	83-124		7.88	30	
Dichlorodifluoromethane	109		"	50.0		217	28-158	High Bias	12.1	30	
Ethyl Benzene	52.1		"	50.0		104	84-125		8.23	30	
Hexachlorobutadiene	47.3		"	50.0		94.5	83-133		8.84	30	
Isopropylbenzene	51.1		"	50.0		102	81-127		7.96	30	
Methyl acetate	54.7		"	50.0		109	41-143		11.6	30	
Methyl tert-butyl ether (MTBE)	57.1		"	50.0		114	74-131		11.0	30	
Methylcyclohexane	50.3		"	50.0		101	70-130		8.11	30	
Methylene chloride	52.6		"	50.0		105	57-141		11.1	30	
n-Butylbenzene	50.0		"	50.0		100	80-130		7.66	30	
n-Propylbenzene	50.0		"	50.0		100	74-136		7.42	30	
o-Xylene	53.9		"	50.0		108	83-123		8.22	30	
p- & m- Xylenes	94.2		"	100		94.2	82-128		8.50	30	
p-Isopropyltoluene	50.8		"	50.0		102	85-125		7.95	30	
sec-Butylbenzene	50.1		"	50.0		100	83-125		7.88	30	
Styrene	53.0		"	50.0		106	86-126		7.87	30	
tert-Butyl alcohol (TBA)	283		"	250		113	70-130		12.3	30	
tert-Butylbenzene	49.9		"	50.0		99.7	80-127		7.88	30	
Tetrachloroethylene	46.4		"	50.0		92.8	80-129		8.19	30	
Toluene	50.6		"	50.0		101	85-121		8.19	30	
trans-1,2-Dichloroethylene	55.3		"	50.0		111	72-132		10.9	30	
trans-1,3-Dichloropropylene	45.9		"	50.0		91.8	78-132		8.19	30	
Trichloroethylene	50.1		"	50.0		100	84-123		8.17	30	
Trichlorofluoromethane	59.7		"	50.0		119	62-140		12.5	30	
Vinyl Chloride	67.9		"	50.0		136	52-130	High Bias	13.4	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	51.2		"	50.0		102	77-125				
Surrogate: SURRE: Toluene-d8	47.5		"	50.0		95.0	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	48.8		"	50.0		97.6	76-130				



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
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Batch BL11515 - EPA 5035A

Blank (BL11515-BLK1)

Prepared & Analyzed: 12/07/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



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
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Batch BL11515 - EPA 5035A

Blank (BL11515-BLK1)

Prepared & Analyzed: 12/07/2021

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	50.5		ug/L	50.0		101	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	50.0		"	50.0		100	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130				

Blank (BL11515-BLK2)

Prepared & Analyzed: 12/07/2021

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BL11515 - EPA 5035A

Blank (BL11515-BLK2)

Prepared & Analyzed: 12/07/2021

Bromodichloromethane	ND	0.50	mg/kg wet										
Bromoform	ND	0.50	"										
Bromomethane	ND	0.50	"										
Carbon disulfide	ND	0.50	"										
Carbon tetrachloride	ND	0.50	"										
Chlorobenzene	ND	0.50	"										
Chloroethane	ND	0.50	"										
Chloroform	ND	0.50	"										
Chloromethane	ND	0.50	"										
cis-1,2-Dichloroethylene	ND	0.50	"										
cis-1,3-Dichloropropylene	ND	0.50	"										
Cyclohexane	ND	0.50	"										
Dibromochloromethane	ND	0.50	"										
Dibromomethane	ND	0.50	"										
Dichlorodifluoromethane	ND	0.50	"										
Ethyl Benzene	ND	0.50	"										
Hexachlorobutadiene	ND	0.50	"										
Isopropylbenzene	ND	0.50	"										
Methyl acetate	ND	0.50	"										
Methyl tert-butyl ether (MTBE)	ND	0.50	"										
Methylcyclohexane	ND	0.50	"										
Methylene chloride	ND	1.0	"										
n-Butylbenzene	ND	0.50	"										
n-Propylbenzene	ND	0.50	"										
o-Xylene	ND	0.50	"										
p- & m- Xylenes	ND	1.0	"										
p-Isopropyltoluene	ND	0.50	"										
sec-Butylbenzene	ND	0.50	"										
Styrene	ND	0.50	"										
tert-Butyl alcohol (TBA)	ND	0.50	"										
tert-Butylbenzene	ND	0.50	"										
Tetrachloroethylene	ND	0.50	"										
Toluene	ND	0.50	"										
trans-1,2-Dichloroethylene	ND	0.50	"										
trans-1,3-Dichloropropylene	ND	0.50	"										
Trichloroethylene	ND	0.50	"										
Trichlorofluoromethane	ND	0.50	"										
Vinyl Chloride	ND	0.50	"										
Xylenes, Total	ND	1.5	"										

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.4		ug/L	50.0		101	77-125
Surrogate: SURRE: Toluene-d8	50.1		"	50.0		100	85-120
Surrogate: SURRE: p-Bromofluorobenzene	52.3		"	50.0		105	76-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	
Batch BL11515 - EPA 5035A											
LCS (BL11515-BS1)											
Prepared & Analyzed: 12/07/2021											
1,1,1,2-Tetrachloroethane	50.2		ug/L	50.0		100	75-129				
1,1,1-Trichloroethane	53.7		"	50.0		107	71-137				
1,1,2,2-Tetrachloroethane	54.3		"	50.0		109	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56.0		"	50.0		112	58-146				
1,1,2-Trichloroethane	52.5		"	50.0		105	83-123				
1,1-Dichloroethane	52.3		"	50.0		105	75-130				
1,1-Dichloroethylene	54.3		"	50.0		109	64-137				
1,2,3-Trichlorobenzene	54.7		"	50.0		109	81-140				
1,2,3-Trichloropropane	54.2		"	50.0		108	81-126				
1,2,4-Trichlorobenzene	56.4		"	50.0		113	80-141				
1,2,4-Trimethylbenzene	53.7		"	50.0		107	84-125				
1,2-Dibromo-3-chloropropane	50.6		"	50.0		101	74-142				
1,2-Dibromoethane	54.7		"	50.0		109	86-123				
1,2-Dichlorobenzene	52.7		"	50.0		105	85-122				
1,2-Dichloroethane	52.9		"	50.0		106	71-133				
1,2-Dichloropropane	53.4		"	50.0		107	81-122				
1,3,5-Trimethylbenzene	52.0		"	50.0		104	82-126				
1,3-Dichlorobenzene	53.3		"	50.0		107	84-124				
1,4-Dichlorobenzene	53.5		"	50.0		107	84-124				
1,4-Dioxane	758		"	1050		72.2	10-228				
2-Butanone	52.6		"	50.0		105	58-147				
2-Hexanone	53.6		"	50.0		107	70-139				
4-Methyl-2-pentanone	54.0		"	50.0		108	72-132				
Acetone	35.4		"	50.0		70.7	36-155				
Acrolein	114		"	50.0		229	10-238				
Acrylonitrile	53.9		"	50.0		108	66-141				
Benzene	52.5		"	50.0		105	77-127				
Bromochloromethane	52.8		"	50.0		106	74-129				
Bromodichloromethane	51.2		"	50.0		102	81-124				
Bromoform	53.4		"	50.0		107	80-136				
Bromomethane	62.1		"	50.0		124	32-177				
Carbon disulfide	69.3		"	50.0		139	10-136	High Bias			
Carbon tetrachloride	52.4		"	50.0		105	66-143				
Chlorobenzene	55.3		"	50.0		111	86-120				
Chloroethane	59.1		"	50.0		118	51-142				
Chloroform	53.2		"	50.0		106	76-131				
Chloromethane	65.3		"	50.0		131	49-132				
cis-1,2-Dichloroethylene	52.4		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	50.2		"	50.0		100	81-129				
Cyclohexane	57.5		"	50.0		115	70-130				
Dibromochloromethane	50.4		"	50.0		101	10-200				
Dibromomethane	52.9		"	50.0		106	83-124				
Dichlorodifluoromethane	97.3		"	50.0		195	28-158	High Bias			
Ethyl Benzene	53.5		"	50.0		107	84-125				
Hexachlorobutadiene	53.1		"	50.0		106	83-133				
Isopropylbenzene	54.5		"	50.0		109	81-127				
Methyl acetate	52.4		"	50.0		105	41-143				
Methyl tert-butyl ether (MTBE)	54.5		"	50.0		109	74-131				
Methylcyclohexane	54.0		"	50.0		108	70-130				
Methylene chloride	48.8		"	50.0		97.7	57-141				



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 BL11515 - EPA 5035A											
LCS (BL11515-BS1)											
Prepared & Analyzed: 12/07/2021											
n-Butylbenzene	53.1		ug/L	50.0		106	80-130				
n-Propylbenzene	53.2		"	50.0		106	74-136				
o-Xylene	54.5		"	50.0		109	83-123				
p- & m- Xylenes	107		"	100		107	82-128				
p-Isopropyltoluene	54.2		"	50.0		108	85-125				
sec-Butylbenzene	53.2		"	50.0		106	83-125				
Styrene	52.9		"	50.0		106	86-126				
tert-Butyl alcohol (TBA)	286		"	250		114	70-130				
tert-Butylbenzene	48.5		"	50.0		97.0	80-127				
Tetrachloroethylene	47.2		"	50.0		94.5	80-129				
Toluene	52.7		"	50.0		105	85-121				
trans-1,2-Dichloroethylene	54.3		"	50.0		109	72-132				
trans-1,3-Dichloropropylene	50.0		"	50.0		100	78-132				
Trichloroethylene	53.6		"	50.0		107	84-123				
Trichlorofluoromethane	58.7		"	50.0		117	62-140				
Vinyl Chloride	65.3		"	50.0		131	52-130	High Bias			
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>76-130</i>				
LCS Dup (BL11515-BS1)											
Prepared & Analyzed: 12/07/2021											
1,1,1,2-Tetrachloroethane	50.5		ug/L	50.0		101	75-129		0.715	30	
1,1,1-Trichloroethane	54.5		"	50.0		109	71-137		1.37	30	
1,1,2,2-Tetrachloroethane	54.7		"	50.0		109	79-129		0.587	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.4		"	50.0		115	58-146		2.51	30	
1,1,2-Trichloroethane	52.4		"	50.0		105	83-123		0.267	30	
1,1-Dichloroethane	53.6		"	50.0		107	75-130		2.55	30	
1,1-Dichloroethylene	55.8		"	50.0		112	64-137		2.67	30	
1,2,3-Trichlorobenzene	55.2		"	50.0		110	81-140		0.946	30	
1,2,3-Trichloropropane	55.1		"	50.0		110	81-126		1.48	30	
1,2,4-Trichlorobenzene	56.8		"	50.0		114	80-141		0.706	30	
1,2,4-Trimethylbenzene	55.1		"	50.0		110	84-125		2.48	30	
1,2-Dibromo-3-chloropropane	53.2		"	50.0		106	74-142		5.12	30	
1,2-Dibromoethane	54.6		"	50.0		109	86-123		0.183	30	
1,2-Dichlorobenzene	53.8		"	50.0		108	85-122		1.93	30	
1,2-Dichloroethane	53.8		"	50.0		108	71-133		1.80	30	
1,2-Dichloropropane	54.0		"	50.0		108	81-122		1.04	30	
1,3,5-Trimethylbenzene	53.6		"	50.0		107	82-126		2.93	30	
1,3-Dichlorobenzene	54.4		"	50.0		109	84-124		2.03	30	
1,4-Dichlorobenzene	54.4		"	50.0		109	84-124		1.56	30	
1,4-Dioxane	773		"	1050		73.7	10-228		2.02	30	
2-Butanone	53.0		"	50.0		106	58-147		0.700	30	
2-Hexanone	53.3		"	50.0		107	70-139		0.598	30	
4-Methyl-2-pentanone	54.4		"	50.0		109	72-132		0.775	30	
Acetone	36.8		"	50.0		73.7	36-155		4.10	30	
Acrolein	117		"	50.0		233	10-238		2.11	30	
Acrylonitrile	53.7		"	50.0		107	66-141		0.502	30	
Benzene	53.7		"	50.0		107	77-127		2.28	30	
Bromochloromethane	53.6		"	50.0		107	74-129		1.48	30	
Bromodichloromethane	51.6		"	50.0		103	81-124		0.739	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 BL11515 - EPA 5035A											
LCS Dup (BL11515-BSD1)											
Prepared & Analyzed: 12/07/2021											
Bromoform	54.3		ug/L	50.0		109	80-136		1.60	30	
Bromomethane	63.9		"	50.0		128	32-177		2.75	30	
Carbon disulfide	66.9		"	50.0		134	10-136		3.60	30	
Carbon tetrachloride	53.0		"	50.0		106	66-143		1.27	30	
Chlorobenzene	56.1		"	50.0		112	86-120		1.44	30	
Chloroethane	61.3		"	50.0		123	51-142		3.65	30	
Chloroform	54.5		"	50.0		109	76-131		2.53	30	
Chloromethane	66.3		"	50.0		133	49-132	High Bias	1.51	30	
cis-1,2-Dichloroethylene	53.7		"	50.0		107	74-132		2.47	30	
cis-1,3-Dichloropropylene	51.1		"	50.0		102	81-129		1.80	30	
Cyclohexane	58.6		"	50.0		117	70-130		1.79	30	
Dibromochloromethane	51.0		"	50.0		102	10-200		1.24	30	
Dibromomethane	52.8		"	50.0		106	83-124		0.0757	30	
Dichlorodifluoromethane	99.5		"	50.0		199	28-158	High Bias	2.28	30	
Ethyl Benzene	54.0		"	50.0		108	84-125		0.911	30	
Hexachlorobutadiene	55.2		"	50.0		110	83-133		3.99	30	
Isopropylbenzene	56.1		"	50.0		112	81-127		2.86	30	
Methyl acetate	50.8		"	50.0		102	41-143		3.04	30	
Methyl tert-butyl ether (MTBE)	55.0		"	50.0		110	74-131		1.02	30	
Methylcyclohexane	54.4		"	50.0		109	70-130		0.701	30	
Methylene chloride	49.2		"	50.0		98.4	57-141		0.694	30	
n-Butylbenzene	54.2		"	50.0		108	80-130		2.12	30	
n-Propylbenzene	54.6		"	50.0		109	74-136		2.61	30	
o-Xylene	54.9		"	50.0		110	83-123		0.694	30	
p- & m- Xylenes	108		"	100		108	82-128		1.14	30	
p-Isopropyltoluene	55.1		"	50.0		110	85-125		1.70	30	
sec-Butylbenzene	54.7		"	50.0		109	83-125		2.85	30	
Styrene	53.6		"	50.0		107	86-126		1.24	30	
tert-Butyl alcohol (TBA)	284		"	250		114	70-130		0.589	30	
tert-Butylbenzene	50.0		"	50.0		99.9	80-127		2.90	30	
Tetrachloroethylene	48.1		"	50.0		96.1	80-129		1.76	30	
Toluene	53.2		"	50.0		106	85-121		0.983	30	
trans-1,2-Dichloroethylene	55.4		"	50.0		111	72-132		2.04	30	
trans-1,3-Dichloropropylene	50.6		"	50.0		101	78-132		1.23	30	
Trichloroethylene	54.4		"	50.0		109	84-123		1.67	30	
Trichlorofluoromethane	59.6		"	50.0		119	62-140		1.49	30	
Vinyl Chloride	67.4		"	50.0		135	52-130	High Bias	3.16	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.6</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>				



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 BL11515 - EPA 5035A												
Matrix Spike (BL11515-MS1)	*Source sample: 21L0133-01 (Matrix Spike)						Prepared & Analyzed: 12/07/2021					
1,1,1,2-Tetrachloroethane	41.7		ug/L	50.0	0.00	83.4	15-161					
1,1,1-Trichloroethane	41.2		"	50.0	0.00	82.4	42-145					
1,1,2,2-Tetrachloroethane	45.7		"	50.0	0.00	91.4	16-167					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	38.0		"	50.0	0.00	76.1	11-160					
1,1,2-Trichloroethane	43.4		"	50.0	0.00	86.8	44-145					
1,1-Dichloroethane	42.6		"	50.0	0.00	85.3	46-142					
1,1-Dichloroethylene	40.6		"	50.0	0.00	81.3	30-153					
1,2,3-Trichlorobenzene	37.2		"	50.0	0.00	74.3	10-157					
1,2,3-Trichloropropane	44.9		"	50.0	0.00	89.7	38-155					
1,2,4-Trichlorobenzene	36.0		"	50.0	0.00	72.0	10-151					
1,2,4-Trimethylbenzene	13.8		"	50.0	0.00	27.5	10-170					
1,2-Dibromo-3-chloropropane	35.9		"	50.0	0.00	71.9	36-138					
1,2-Dibromoethane	43.2		"	50.0	0.00	86.4	40-142					
1,2-Dichlorobenzene	38.5		"	50.0	0.00	77.0	10-147					
1,2-Dichloroethane	44.3		"	50.0	0.00	88.6	48-133					
1,2-Dichloropropane	43.7		"	50.0	0.00	87.5	47-141					
1,3,5-Trimethylbenzene	39.3		"	50.0	0.00	78.7	10-150					
1,3-Dichlorobenzene	38.2		"	50.0	0.00	76.3	10-144					
1,4-Dichlorobenzene	38.0		"	50.0	0.00	76.0	10-160					
1,4-Dioxane	629		"	1050	0.00	59.9	10-191					
2-Butanone	40.6		"	50.0	0.00	81.1	10-189					
2-Hexanone	38.2		"	50.0	0.00	76.4	10-181					
4-Methyl-2-pentanone	42.2		"	50.0	0.00	84.4	10-166					
Acetone	27.1		"	50.0	2.84	48.5	10-196					
Acrolein	15.1		"	50.0	0.00	30.2	10-192					
Acrylonitrile	40.9		"	50.0	0.00	81.8	13-161					
Benzene	42.1		"	50.0	0.00	84.2	43-139					
Bromochloromethane	44.4		"	50.0	0.00	88.7	38-145					
Bromodichloromethane	39.4		"	50.0	0.00	78.8	38-147					
Bromoform	37.7		"	50.0	0.00	75.4	29-156					
Bromomethane	49.5		"	50.0	0.00	98.9	10-166					
Carbon disulfide	46.6		"	50.0	0.00	93.2	10-131					
Carbon tetrachloride	37.1		"	50.0	0.00	74.2	35-145					
Chlorobenzene	41.6		"	50.0	0.00	83.2	21-154					
Chloroethane	47.5		"	50.0	0.00	95.0	15-160					
Chloroform	44.0		"	50.0	0.00	88.0	47-142					
Chloromethane	51.6		"	50.0	0.00	103	10-159					
cis-1,2-Dichloroethylene	41.6		"	50.0	0.00	83.2	42-144					
cis-1,3-Dichloropropylene	38.5		"	50.0	0.00	76.9	18-159					
Cyclohexane	42.3		"	50.0	0.00	84.5	70-130					
Dibromochloromethane	38.4		"	50.0	0.00	76.8	10-179					
Dibromomethane	42.3		"	50.0	0.00	84.7	47-143					
Dichlorodifluoromethane	66.3		"	50.0	0.00	133	10-145					
Ethyl Benzene	38.4		"	50.0	0.00	76.9	11-158					
Hexachlorobutadiene	32.1		"	50.0	0.00	64.2	10-158					
Isopropylbenzene	39.2		"	50.0	0.00	78.3	10-162					
Methyl acetate	52.2		"	50.0	0.00	104	10-149					
Methyl tert-butyl ether (MTBE)	47.8		"	50.0	0.00	95.6	42-152					
Methylcyclohexane	35.6		"	50.0	0.00	71.2	70-130					
Methylene chloride	41.4		"	50.0	0.00	82.7	28-151					



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 BL11515 - EPA 5035A											
Matrix Spike (BL11515-MS1)		*Source sample: 21L0133-01 (Matrix Spike)					Prepared & Analyzed: 12/07/2021				
n-Butylbenzene	31.0		ug/L	50.0	0.00	62.1	10-162				
n-Propylbenzene	36.4		"	50.0	0.00	72.9	10-155				
o-Xylene	41.1		"	50.0	0.00	82.1	10-158				
p- & m- Xylenes	49.1		"	100	0.00	49.1	10-156				
p-Isopropyltoluene	37.1		"	50.0	0.00	74.2	10-147				
sec-Butylbenzene	36.0		"	50.0	0.00	72.0	10-157				
Styrene	39.0		"	50.0	0.00	78.1	13-171				
tert-Butyl alcohol (TBA)	224		"	250	0.00	89.5	34-179				
tert-Butylbenzene	36.9		"	50.0	0.00	73.8	10-160				
Tetrachloroethylene	32.1		"	50.0	0.00	64.2	30-167				
Toluene	39.1		"	50.0	0.00	78.1	21-160				
trans-1,2-Dichloroethylene	41.1		"	50.0	0.00	82.2	29-153				
trans-1,3-Dichloropropylene	36.5		"	50.0	0.00	73.0	18-155				
Trichloroethylene	39.2		"	50.0	0.00	78.3	24-169				
Trichlorofluoromethane	42.4		"	50.0	0.00	84.8	35-142				
Vinyl Chloride	50.7		"	50.0	0.00	101	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.5		"	50.0		99.0	77-125				
Surrogate: SURR: Toluene-d8	49.2		"	50.0		98.4	85-120				
Surrogate: SURR: p-Bromofluorobenzene	52.2		"	50.0		104	76-130				
Matrix Spike Dup (BL11515-MSD1)		*Source sample: 21L0133-01 (Matrix Spike Dup)					Prepared & Analyzed: 12/07/2021				
1,1,1,2-Tetrachloroethane	39.6		ug/L	50.0	0.00	79.3	15-161		5.07		33
1,1,1-Trichloroethane	42.9		"	50.0	0.00	85.8	42-145		4.04		30
1,1,2,2-Tetrachloroethane	42.7		"	50.0	0.00	85.4	16-167		6.72		56
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39.7		"	50.0	0.00	79.4	11-160		4.35		31
1,1,2-Trichloroethane	41.6		"	50.0	0.00	83.1	44-145		4.38		40
1,1-Dichloroethane	43.0		"	50.0	0.00	86.0	46-142		0.887		36
1,1-Dichloroethylene	42.1		"	50.0	0.00	84.2	30-153		3.55		31
1,2,3-Trichlorobenzene	34.6		"	50.0	0.00	69.2	10-157		7.16		47
1,2,3-Trichloropropane	42.7		"	50.0	0.00	85.4	38-155		4.93		48
1,2,4-Trichlorobenzene	33.7		"	50.0	0.00	67.4	10-151		6.60		52
1,2,4-Trimethylbenzene	12.5		"	50.0	0.00	25.0	10-170		9.59		242
1,2-Dibromo-3-chloropropane	35.0		"	50.0	0.00	70.1	36-138		2.51		54
1,2-Dibromoethane	41.7		"	50.0	0.00	83.4	40-142		3.46		39
1,2-Dichlorobenzene	37.5		"	50.0	0.00	75.0	10-147		2.61		52
1,2-Dichloroethane	42.7		"	50.0	0.00	85.5	48-133		3.59		32
1,2-Dichloropropane	43.4		"	50.0	0.00	86.8	47-141		0.781		37
1,3,5-Trimethylbenzene	36.9		"	50.0	0.00	73.8	10-150		6.35		62
1,3-Dichlorobenzene	37.3		"	50.0	0.00	74.7	10-144		2.15		51
1,4-Dichlorobenzene	36.9		"	50.0	0.00	73.8	10-160		2.91		52
1,4-Dioxane	577		"	1050	0.00	55.0	10-191		8.47		196
2-Butanone	36.8		"	50.0	0.00	73.6	10-189		9.75		67
2-Hexanone	34.7		"	50.0	0.00	69.4	10-181		9.69		60
4-Methyl-2-pentanone	39.4		"	50.0	0.00	78.9	10-166		6.74		47
Acetone	25.6		"	50.0	2.84	45.6	10-196		5.50		150
Acrolein	17.4		"	50.0	0.00	34.8	10-192		14.1		128
Acrylonitrile	37.9		"	50.0	0.00	75.7	13-161		7.74		48
Benzene	42.2		"	50.0	0.00	84.5	43-139		0.380		64
Bromochloromethane	43.2		"	50.0	0.00	86.4	38-145		2.58		30
Bromodichloromethane	39.3		"	50.0	0.00	78.7	38-147		0.127		37



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	Limits	Flag	RPD	RPD Limit	Flag
Batch BL11515 - EPA 5035A											
Matrix Spike Dup (BL11515-MSD1)	*Source sample: 21L0133-01 (Matrix Spike Dup)						Prepared & Analyzed: 12/07/2021				
Bromoform	37.1		ug/L	50.0	0.00	74.1	29-156		1.71	51	
Bromomethane	49.6		"	50.0	0.00	99.2	10-166		0.222	42	
Carbon disulfide	46.0		"	50.0	0.00	92.1	10-131		1.25	36	
Carbon tetrachloride	39.5		"	50.0	0.00	79.0	35-145		6.27	31	
Chlorobenzene	41.7		"	50.0	0.00	83.4	21-154		0.216	32	
Chloroethane	47.5		"	50.0	0.00	95.0	15-160		0.0421	40	
Chloroform	44.1		"	50.0	0.00	88.2	47-142		0.182	29	
Chloromethane	52.1		"	50.0	0.00	104	10-159		0.829	31	
cis-1,2-Dichloroethylene	42.1		"	50.0	0.00	84.3	42-144		1.29	30	
cis-1,3-Dichloropropylene	38.6		"	50.0	0.00	77.1	18-159		0.234	39	
Cyclohexane	43.6		"	50.0	0.00	87.2	70-130		3.07	30	
Dibromochloromethane	37.6		"	50.0	0.00	75.2	10-179		2.08	41	
Dibromomethane	40.8		"	50.0	0.00	81.6	47-143		3.68	41	
Dichlorodifluoromethane	68.1		"	50.0	0.00	136	10-145		2.71	34	
Ethyl Benzene	39.0		"	50.0	0.00	78.0	11-158		1.50	42	
Hexachlorobutadiene	31.4		"	50.0	0.00	62.9	10-158		2.01	45	
Isopropylbenzene	39.6		"	50.0	0.00	79.2	10-162		1.12	57	
Methyl acetate	48.3		"	50.0	0.00	96.6	10-149		7.74	64	
Methyl tert-butyl ether (MTBE)	46.3		"	50.0	0.00	92.6	42-152		3.23	47	
Methylcyclohexane	36.8		"	50.0	0.00	73.6	70-130		3.37	30	
Methylene chloride	40.9		"	50.0	0.00	81.8	28-151		1.17	49	
n-Butylbenzene	30.9		"	50.0	0.00	61.7	10-162		0.517	96	
n-Propylbenzene	36.8		"	50.0	0.00	73.7	10-155		1.06	56	
o-Xylene	40.8		"	50.0	0.00	81.5	10-158		0.733	51	
p- & m- Xylenes	48.6		"	100	0.00	48.6	10-156		1.00	47	
p-Isopropyltoluene	37.2		"	50.0	0.00	74.4	10-147		0.323	60	
sec-Butylbenzene	36.1		"	50.0	0.00	72.3	10-157		0.333	56	
Styrene	37.9		"	50.0	0.00	75.8	13-171		3.02	39	
tert-Butyl alcohol (TBA)	210		"	250	0.00	83.8	34-179		6.54	35	
tert-Butylbenzene	36.7		"	50.0	0.00	73.5	10-160		0.407	79	
Tetrachloroethylene	32.8		"	50.0	0.00	65.6	30-167		2.25	33	
Toluene	39.5		"	50.0	0.00	78.9	21-160		1.02	50	
trans-1,2-Dichloroethylene	42.2		"	50.0	0.00	84.4	29-153		2.59	30	
trans-1,3-Dichloropropylene	36.6		"	50.0	0.00	73.3	18-155		0.410	30	
Trichloroethylene	40.2		"	50.0	0.00	80.4	24-169		2.57	30	
Trichlorofluoromethane	44.3		"	50.0	0.00	88.5	35-142		4.32	30	
Vinyl Chloride	51.6		"	50.0	0.00	103	12-160		1.78	35	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	48.2		"	50.0		96.5	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	49.9		"	50.0		99.9	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	51.7		"	50.0		103	76-130				



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
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Batch BL11621 - EPA 5035A

Blank (BL11621-BLK1)

Prepared & Analyzed: 12/08/2021

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								



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
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Batch BL11621 - EPA 5035A

Blank (BL11621-BLK1)

Prepared & Analyzed: 12/08/2021

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	49.8		ug/L	50.0		99.6	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	49.8		"	50.0		99.5	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	50.2		"	50.0		100	76-130				

Blank (BL11621-BLK2)

Prepared & Analyzed: 12/08/2021

1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BL11621 - EPA 5035A

Blank (BL11621-BLK2)

Prepared & Analyzed: 12/08/2021

Bromodichloromethane	ND	0.50	mg/kg wet										
Bromoform	ND	0.50	"										
Bromomethane	ND	0.50	"										
Carbon disulfide	ND	0.50	"										
Carbon tetrachloride	ND	0.50	"										
Chlorobenzene	ND	0.50	"										
Chloroethane	ND	0.50	"										
Chloroform	ND	0.50	"										
Chloromethane	ND	0.50	"										
cis-1,2-Dichloroethylene	ND	0.50	"										
cis-1,3-Dichloropropylene	ND	0.50	"										
Cyclohexane	ND	0.50	"										
Dibromochloromethane	ND	0.50	"										
Dibromomethane	ND	0.50	"										
Dichlorodifluoromethane	ND	0.50	"										
Ethyl Benzene	ND	0.50	"										
Hexachlorobutadiene	ND	0.50	"										
Isopropylbenzene	ND	0.50	"										
Methyl acetate	ND	0.50	"										
Methyl tert-butyl ether (MTBE)	ND	0.50	"										
Methylcyclohexane	ND	0.50	"										
Methylene chloride	ND	1.0	"										
n-Butylbenzene	ND	0.50	"										
n-Propylbenzene	ND	0.50	"										
o-Xylene	ND	0.50	"										
p- & m- Xylenes	ND	1.0	"										
p-Isopropyltoluene	ND	0.50	"										
sec-Butylbenzene	ND	0.50	"										
Styrene	ND	0.50	"										
tert-Butyl alcohol (TBA)	ND	0.50	"										
tert-Butylbenzene	ND	0.50	"										
Tetrachloroethylene	ND	0.50	"										
Toluene	ND	0.50	"										
trans-1,2-Dichloroethylene	ND	0.50	"										
trans-1,3-Dichloropropylene	ND	0.50	"										
Trichloroethylene	ND	0.50	"										
Trichlorofluoromethane	ND	0.50	"										
Vinyl Chloride	ND	0.50	"										
Xylenes, Total	ND	1.5	"										

Surrogate: SURRE: 1,2-Dichloroethane-d4	50.7		ug/L	50.0		101	77-125
Surrogate: SURRE: Toluene-d8	49.3		"	50.0		98.5	85-120
Surrogate: SURRE: p-Bromofluorobenzene	59.6		"	50.0		119	76-130



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 BL11621 - EPA 5035A											
LCS (BL11621-BS1)											
Prepared & Analyzed: 12/08/2021											
1,1,1,2-Tetrachloroethane	49.9		ug/L	50.0		99.9	75-129				
1,1,1-Trichloroethane	52.5		"	50.0		105	71-137				
1,1,2,2-Tetrachloroethane	49.9		"	50.0		99.9	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	60.4		"	50.0		121	58-146				
1,1,2-Trichloroethane	48.1		"	50.0		96.2	83-123				
1,1-Dichloroethane	51.6		"	50.0		103	75-130				
1,1-Dichloroethylene	58.1		"	50.0		116	64-137				
1,2,3-Trichlorobenzene	49.4		"	50.0		98.8	81-140				
1,2,3-Trichloropropane	49.9		"	50.0		99.8	81-126				
1,2,4-Trichlorobenzene	51.2		"	50.0		102	80-141				
1,2,4-Trimethylbenzene	52.2		"	50.0		104	84-125				
1,2-Dibromo-3-chloropropane	51.0		"	50.0		102	74-142				
1,2-Dibromoethane	50.9		"	50.0		102	86-123				
1,2-Dichlorobenzene	50.3		"	50.0		101	85-122				
1,2-Dichloroethane	51.4		"	50.0		103	71-133				
1,2-Dichloropropane	50.6		"	50.0		101	81-122				
1,3,5-Trimethylbenzene	51.7		"	50.0		103	82-126				
1,3-Dichlorobenzene	51.8		"	50.0		104	84-124				
1,4-Dichlorobenzene	51.3		"	50.0		103	84-124				
1,4-Dioxane	693		"	1050		66.0	10-228				
2-Butanone	48.8		"	50.0		97.7	58-147				
2-Hexanone	44.9		"	50.0		89.8	70-139				
4-Methyl-2-pentanone	48.1		"	50.0		96.1	72-132				
Acetone	32.5		"	50.0		65.0	36-155				
Acrolein	93.3		"	50.0		187	10-238				
Acrylonitrile	50.7		"	50.0		101	66-141				
Benzene	52.3		"	50.0		105	77-127				
Bromochloromethane	48.5		"	50.0		96.9	74-129				
Bromodichloromethane	50.3		"	50.0		101	81-124				
Bromoform	50.5		"	50.0		101	80-136				
Bromomethane	72.7		"	50.0		145	32-177				
Carbon disulfide	63.6		"	50.0		127	10-136				
Carbon tetrachloride	54.5		"	50.0		109	66-143				
Chlorobenzene	54.1		"	50.0		108	86-120				
Chloroethane	66.9		"	50.0		134	51-142				
Chloroform	51.4		"	50.0		103	76-131				
Chloromethane	80.5		"	50.0		161	49-132	High Bias			
cis-1,2-Dichloroethylene	50.7		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	50.3		"	50.0		101	81-129				
Cyclohexane	52.1		"	50.0		104	70-130				
Dibromochloromethane	48.6		"	50.0		97.2	10-200				
Dibromomethane	48.6		"	50.0		97.1	83-124				
Dichlorodifluoromethane	124		"	50.0		247	28-158	High Bias			
Ethyl Benzene	52.5		"	50.0		105	84-125				
Hexachlorobutadiene	51.3		"	50.0		103	83-133				
Isopropylbenzene	54.1		"	50.0		108	81-127				
Methyl acetate	46.8		"	50.0		93.5	41-143				
Methyl tert-butyl ether (MTBE)	48.7		"	50.0		97.4	74-131				
Methylcyclohexane	53.9		"	50.0		108	70-130				
Methylene chloride	55.4		"	50.0		111	57-141				



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 BL11621 - EPA 5035A											
LCS (BL11621-BS1)											
Prepared & Analyzed: 12/08/2021											
n-Butylbenzene	52.6		ug/L	50.0		105	80-130				
n-Propylbenzene	53.1		"	50.0		106	74-136				
o-Xylene	53.2		"	50.0		106	83-123				
p- & m- Xylenes	106		"	100		106	82-128				
p-Isopropyltoluene	53.0		"	50.0		106	85-125				
sec-Butylbenzene	53.0		"	50.0		106	83-125				
Styrene	51.5		"	50.0		103	86-126				
tert-Butyl alcohol (TBA)	232		"	250		93.0	70-130				
tert-Butylbenzene	53.2		"	50.0		106	80-127				
Tetrachloroethylene	42.6		"	50.0		85.2	80-129				
Toluene	51.8		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	54.1		"	50.0		108	72-132				
trans-1,3-Dichloropropylene	49.3		"	50.0		98.6	78-132				
Trichloroethylene	51.8		"	50.0		104	84-123				
Trichlorofluoromethane	69.2		"	50.0		138	62-140				
Vinyl Chloride	75.8		"	50.0		152	52-130	High Bias			
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.2</i>	<i>77-125</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>85-120</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.4</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				
LCS Dup (BL11621-BS1)											
Prepared & Analyzed: 12/08/2021											
1,1,1,2-Tetrachloroethane	49.9		ug/L	50.0		99.8	75-129		0.0200	30	
1,1,1-Trichloroethane	52.3		"	50.0		105	71-137		0.344	30	
1,1,2,2-Tetrachloroethane	51.6		"	50.0		103	79-129		3.23	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.1		"	50.0		102	58-146		16.6	30	
1,1,2-Trichloroethane	49.6		"	50.0		99.2	83-123		3.01	30	
1,1-Dichloroethane	52.1		"	50.0		104	75-130		1.04	30	
1,1-Dichloroethylene	49.3		"	50.0		98.6	64-137		16.3	30	
1,2,3-Trichlorobenzene	50.6		"	50.0		101	81-140		2.32	30	
1,2,3-Trichloropropane	52.3		"	50.0		105	81-126		4.71	30	
1,2,4-Trichlorobenzene	51.9		"	50.0		104	80-141		1.36	30	
1,2,4-Trimethylbenzene	51.7		"	50.0		103	84-125		0.866	30	
1,2-Dibromo-3-chloropropane	52.8		"	50.0		106	74-142		3.49	30	
1,2-Dibromoethane	51.3		"	50.0		103	86-123		0.861	30	
1,2-Dichlorobenzene	50.9		"	50.0		102	85-122		1.28	30	
1,2-Dichloroethane	50.2		"	50.0		100	71-133		2.20	30	
1,2-Dichloropropane	51.5		"	50.0		103	81-122		1.66	30	
1,3,5-Trimethylbenzene	51.8		"	50.0		104	82-126		0.174	30	
1,3-Dichlorobenzene	51.4		"	50.0		103	84-124		0.737	30	
1,4-Dichlorobenzene	51.1		"	50.0		102	84-124		0.293	30	
1,4-Dioxane	769		"	1050		73.2	10-228		10.4	30	
2-Butanone	51.1		"	50.0		102	58-147		4.42	30	
2-Hexanone	47.4		"	50.0		94.9	70-139		5.52	30	
4-Methyl-2-pentanone	50.4		"	50.0		101	72-132		4.83	30	
Acetone	30.1		"	50.0		60.1	36-155		7.77	30	
Acrolein	85.2		"	50.0		170	10-238		9.09	30	
Acrylonitrile	54.6		"	50.0		109	66-141		7.28	30	
Benzene	52.3		"	50.0		105	77-127		0.0191	30	
Bromochloromethane	50.4		"	50.0		101	74-129		3.96	30	
Bromodichloromethane	49.7		"	50.0		99.3	81-124		1.22	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 BL11621 - EPA 5035A											
LCS Dup (BL11621-BSD1)											
Prepared & Analyzed: 12/08/2021											
Bromoform	52.8		ug/L	50.0		106	80-136		4.47	30	
Bromomethane	60.1		"	50.0		120	32-177		19.0	30	
Carbon disulfide	55.9		"	50.0		112	10-136		12.8	30	
Carbon tetrachloride	53.3		"	50.0		107	66-143		2.30	30	
Chlorobenzene	54.1		"	50.0		108	86-120		0.111	30	
Chloroethane	56.4		"	50.0		113	51-142		16.9	30	
Chloroform	51.9		"	50.0		104	76-131		0.833	30	
Chloromethane	66.0		"	50.0		132	49-132		19.8	30	
cis-1,2-Dichloroethylene	51.3		"	50.0		103	74-132		1.10	30	
cis-1,3-Dichloropropylene	51.0		"	50.0		102	81-129		1.38	30	
Cyclohexane	54.0		"	50.0		108	70-130		3.65	30	
Dibromochloromethane	49.2		"	50.0		98.5	10-200		1.31	30	
Dibromomethane	49.0		"	50.0		98.1	83-124		0.963	30	
Dichlorodifluoromethane	102		"	50.0		205	28-158	High Bias	18.9	30	
Ethyl Benzene	52.1		"	50.0		104	84-125		0.803	30	
Hexachlorobutadiene	51.1		"	50.0		102	83-133		0.410	30	
Isopropylbenzene	53.9		"	50.0		108	81-127		0.241	30	
Methyl acetate	52.8		"	50.0		106	41-143		12.2	30	
Methyl tert-butyl ether (MTBE)	50.7		"	50.0		101	74-131		3.92	30	
Methylcyclohexane	53.7		"	50.0		107	70-130		0.372	30	
Methylene chloride	56.0		"	50.0		112	57-141		1.08	30	
n-Butylbenzene	51.9		"	50.0		104	80-130		1.34	30	
n-Propylbenzene	52.6		"	50.0		105	74-136		1.00	30	
o-Xylene	52.9		"	50.0		106	83-123		0.452	30	
p- & m- Xylenes	105		"	100		105	82-128		0.826	30	
p-Isopropyltoluene	52.4		"	50.0		105	85-125		1.12	30	
sec-Butylbenzene	52.4		"	50.0		105	83-125		1.04	30	
Styrene	51.2		"	50.0		102	86-126		0.545	30	
tert-Butyl alcohol (TBA)	260		"	250		104	70-130		11.2	30	
tert-Butylbenzene	52.8		"	50.0		106	80-127		0.924	30	
Tetrachloroethylene	42.2		"	50.0		84.5	80-129		0.849	30	
Toluene	51.1		"	50.0		102	85-121		1.48	30	
trans-1,2-Dichloroethylene	55.5		"	50.0		111	72-132		2.48	30	
trans-1,3-Dichloropropylene	50.5		"	50.0		101	78-132		2.38	30	
Trichloroethylene	51.3		"	50.0		103	84-123		0.970	30	
Trichlorofluoromethane	57.4		"	50.0		115	62-140		18.6	30	
Vinyl Chloride	61.2		"	50.0		122	52-130		21.4	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	48.9		"	50.0		97.8	77-125				
Surrogate: SURRE: Toluene-d8	49.9		"	50.0		99.7	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	50.8		"	50.0		102	76-130				



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
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Batch BL11667 - EPA 5030B/1311

Blank (BL11667-BLK1)

Prepared & Analyzed: 12/08/2021

1,1-Dichloroethylene	ND	5.0	ug/L								
1,2-Dichloroethane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2-Butanone	ND	5.0	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.2		"	50.0		104	65-135				
<i>Surrogate: SURR: Toluene-d8</i>	49.6		"	50.0		99.2	86-118				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	51.7		"	50.0		103	81-114				

LCS (BL11667-BS1)

Prepared & Analyzed: 12/08/2021

1,1-Dichloroethylene	57.0		ug/L	50.0		114	68-134				
1,2-Dichloroethane	57.2		"	50.0		114	69-133				
1,4-Dichlorobenzene	51.8		"	50.0		104	82-124				
2-Butanone	57.0		"	50.0		114	44-169				
Benzene	53.8		"	50.0		108	72-134				
Carbon tetrachloride	53.2		"	50.0		106	62-145				
Chlorobenzene	55.5		"	50.0		111	85-119				
Chloroform	54.9		"	50.0		110	74-131				
Tetrachloroethylene	45.9		"	50.0		91.7	78-133				
Trichloroethylene	53.6		"	50.0		107	81-125				
Vinyl Chloride	66.1		"	50.0		132	42-136				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	52.7		"	50.0		105	65-135				
<i>Surrogate: SURR: Toluene-d8</i>	49.4		"	50.0		98.8	86-118				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	49.8		"	50.0		99.5	81-114				



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
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Batch BL11667 - EPA 5030B/1311

LCS Dup (BL11667-BSD1)

Prepared & Analyzed: 12/08/2021

1,1-Dichloroethylene	56.2		ug/L	50.0		112	68-134		1.25	30	
1,2-Dichloroethane	55.6		"	50.0		111	69-133		2.77	30	
1,4-Dichlorobenzene	52.5		"	50.0		105	82-124		1.23	30	
2-Butanone	55.8		"	50.0		112	44-169		1.99	30	
Benzene	54.0		"	50.0		108	72-134		0.352	30	
Carbon tetrachloride	53.9		"	50.0		108	62-145		1.31	30	
Chlorobenzene	55.9		"	50.0		112	85-119		0.629	30	
Chloroform	54.8		"	50.0		110	74-131		0.292	30	
Tetrachloroethylene	46.6		"	50.0		93.3	78-133		1.67	30	
Trichloroethylene	54.0		"	50.0		108	81-125		0.762	30	
Vinyl Chloride	66.1		"	50.0		132	42-136		0.0151	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.6</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>65-135</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.1</i>	<i>86-118</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81-114</i>				

Leach Fluid Blank (BL11667-LBK1)

Prepared & Analyzed: 12/08/2021

1,1-Dichloroethylene	ND	50	ug/L								
1,2-Dichloroethane	ND	50	"								
1,4-Dichlorobenzene	ND	50	"								
2-Butanone	ND	50	"								
Benzene	ND	50	"								
Carbon tetrachloride	ND	50	"								
Chlorobenzene	ND	50	"								
Chloroform	ND	50	"								
Tetrachloroethylene	ND	50	"								
Trichloroethylene	ND	50	"								
Vinyl Chloride	ND	50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>65-135</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>86-118</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>81-114</i>				



PFAS Target compounds by LC/MS-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
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Batch BL11489 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BL11489-BLK1)

Prepared: 12/06/2021 Analyzed: 12/08/2021

Perfluorobutanesulfonic acid (PFBS)	ND	0.244	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.244	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.244	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.244	"								
Perfluorooctanoic acid (PFOA)	ND	0.244	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.244	"								
Perfluorononanoic acid (PFNA)	ND	0.244	"								
Perfluorodecanoic acid (PFDA)	ND	0.244	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.244	"								
Perfluorododecanoic acid (PFDoA)	ND	0.244	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.244	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.244	"								
N-MeFOSAA	ND	0.244	"								
N-EtFOSAA	ND	0.244	"								
Perfluoropentanoic acid (PFPeA)	ND	0.244	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.244	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.244	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.244	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.244	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.244	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.244	"								
Surrogate: M3PFBS	4.16		"	4.53		91.8	25-150				
Surrogate: M5PFHxA	4.51		"	4.88		92.5	25-150				
Surrogate: M4PFHpA	4.50		"	4.88		92.3	25-150				
Surrogate: M3PFHxS	4.33		"	4.61		93.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.48		"	4.88		91.9	25-150				
Surrogate: M6PFDA	3.99		"	4.88		81.9	25-150				
Surrogate: M7PFUdA	3.59		"	4.88		73.7	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.70		"	4.88		75.9	25-150				
Surrogate: M2PFTeDA	2.91		"	4.88		59.6	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.68		"	4.88		96.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.83		"	4.67		82.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.57		"	4.88		93.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.08		"	4.88		63.2	10-150				
Surrogate: d3-N-MeFOSAA	3.35		"	4.88		68.7	25-150				
Surrogate: d5-N-EtFOSAA	2.88		"	4.88		59.0	25-150				
Surrogate: M2-6:2 FTS	3.46		"	4.63		74.7	25-200				
Surrogate: M2-8:2 FTS	2.96		"	4.67		63.3	25-200				
Surrogate: M9PFNA	3.97		"	4.88		81.4	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL11489 - SPE PFAS Extraction-Soil-EPA 537m

LCS (BL11489-BS1)

Prepared: 12/06/2021 Analyzed: 12/08/2021

Perfluorobutanesulfonic acid (PFBS)	4.48	0.242	ug/kg wet	4.28		104	50-130				
Perfluorohexanoic acid (PFHxA)	5.41	0.242	"	4.84		112	50-130				
Perfluoroheptanoic acid (PFHpA)	5.07	0.242	"	4.84		105	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.99	0.242	"	4.40		113	50-130				
Perfluorooctanoic acid (PFOA)	4.69	0.242	"	4.84		97.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.51	0.242	"	4.48		101	50-130				
Perfluorononanoic acid (PFNA)	5.12	0.242	"	4.84		106	50-130				
Perfluorodecanoic acid (PFDA)	5.09	0.242	"	4.84		105	50-130				
Perfluoroundecanoic acid (PFUnA)	5.13	0.242	"	4.84		106	50-130				
Perfluorododecanoic acid (PFDoA)	5.11	0.242	"	4.84		106	50-130				
Perfluorotridecanoic acid (PFTriDA)	4.12	0.242	"	4.84		85.0	50-130				
Perfluorotetradecanoic acid (PFTA)	5.47	0.242	"	4.84		113	50-130				
N-MeFOSAA	5.68	0.242	"	4.84		117	50-130				
N-EtFOSAA	5.29	0.242	"	4.84		109	50-130				
Perfluoropentanoic acid (PFPeA)	5.20	0.242	"	4.84		107	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.37	0.242	"	4.84		90.3	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.10	0.242	"	4.62		110	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.37	0.242	"	4.67		93.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	8.56	0.242	"	4.60		186	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	14.3	0.242	"	4.65		308	50-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	5.24	0.242	"	4.84		108	50-130				
Surrogate: M3PFBS	4.08		"	4.50		90.7	25-150				
Surrogate: M5PFHxA	4.08		"	4.84		84.3	25-150				
Surrogate: M4PFHpA	4.03		"	4.84		83.3	25-150				
Surrogate: M3PFHxS	3.90		"	4.58		85.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.37		"	4.84		90.3	25-150				
Surrogate: M6PFDA	4.26		"	4.84		88.0	25-150				
Surrogate: M7PFUdA	3.66		"	4.84		75.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.20		"	4.84		86.7	25-150				
Surrogate: M2PFTeDA	2.94		"	4.84		60.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	4.27		"	4.84		88.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.09		"	4.63		88.3	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.38		"	4.84		90.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.54		"	4.84		73.1	10-150				
Surrogate: d3-N-MeFOSAA	3.03		"	4.84		62.7	25-150				
Surrogate: d5-N-EtFOSAA	3.55		"	4.84		73.4	25-150				
Surrogate: M2-6:2 FTS	4.18		"	4.59		91.0	25-200				
Surrogate: M2-8:2 FTS	2.53		"	4.64		54.6	25-200				
Surrogate: M9PFNA	3.76		"	4.84		77.6	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL11489 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike (BL11489-MS1)	*Source sample: 21L0077-03 (Matrix Spike)						Prepared: 12/06/2021 Analyzed: 12/08/2021				
Perfluorobutanesulfonic acid (PFBS)	3.91	0.216	ug/kg dry	3.82	ND	102	25-150				
Perfluorohexanoic acid (PFHxA)	4.90	0.216	"	4.32	ND	113	25-150				
Perfluoroheptanoic acid (PFHpA)	4.98	0.216	"	4.32	ND	115	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.00	0.216	"	3.93	ND	102	25-150				
Perfluorooctanoic acid (PFOA)	4.98	0.216	"	4.32	ND	115	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.30	0.216	"	4.00	ND	108	25-150				
Perfluorononanoic acid (PFNA)	3.97	0.216	"	4.32	ND	91.8	25-150				
Perfluorodecanoic acid (PFDA)	4.12	0.216	"	4.32	ND	95.3	25-150				
Perfluoroundecanoic acid (PFUnA)	4.39	0.216	"	4.32	ND	102	25-150				
Perfluorododecanoic acid (PFDoA)	4.53	0.216	"	4.32	ND	105	25-150				
Perfluorotridecanoic acid (PFTriDA)	3.25	0.216	"	4.32	ND	75.3	25-150				
Perfluorotetradecanoic acid (PFTA)	4.93	0.216	"	4.32	ND	114	25-150				
N-MeFOSAA	4.89	0.216	"	4.32	ND	113	25-150				
N-EtFOSAA	4.35	0.216	"	4.32	ND	101	25-150				
Perfluoropentanoic acid (PFPeA)	4.23	0.216	"	4.32	ND	97.9	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.91	0.216	"	4.32	ND	114	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.88	0.216	"	4.13	ND	118	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.17	0.216	"	4.17	ND	100	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	8.04	0.216	"	4.10	ND	196	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	10.1	0.216	"	4.15	ND	244	25-200	High Bias			
Perfluoro-n-butanoic acid (PFBA)	4.51	0.216	"	4.32	0.509	92.6	25-150				
Surrogate: M3PFBS	3.36		"	4.01		83.7	25-150				
Surrogate: M5PFHxA	3.47		"	4.32		80.4	25-150				
Surrogate: M4PFHpA	3.22		"	4.32		74.5	25-150				
Surrogate: M3PFHxS	3.16		"	4.09		77.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.26		"	4.32		75.5	25-150				
Surrogate: M6PFDA	3.00		"	4.32		69.5	25-150				
Surrogate: M7PFUdA	2.68		"	4.32		62.1	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.28		"	4.32		75.8	25-150				
Surrogate: M2PFTeDA	2.22		"	4.32		51.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	3.75		"	4.32		86.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.55		"	4.13		61.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	3.89		"	4.32		90.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.39		"	4.32		55.4	10-150				
Surrogate: d3-N-MeFOSAA	2.56		"	4.32		59.2	25-150				
Surrogate: d5-N-EtFOSAA	2.43		"	4.32		56.3	25-150				
Surrogate: M2-6:2 FTS	3.12		"	4.10		76.2	25-200				
Surrogate: M2-8:2 FTS	1.83		"	4.14		44.3	25-200				
Surrogate: M9PFNA	3.21		"	4.32		74.3	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL11489 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BL11489-MSD1)	*Source sample: 21L0077-03 (Matrix Spike Dup)						Prepared: 12/06/2021 Analyzed: 12/08/2021				
Perfluorobutanesulfonic acid (PFBS)	3.68	0.216	ug/kg dry	3.83	ND	96.0	25-150		6.18	35	
Perfluorohexanoic acid (PFHxA)	4.52	0.216	"	4.33	ND	105	25-150		8.04	35	
Perfluoroheptanoic acid (PFHpA)	3.87	0.216	"	4.33	ND	89.5	25-150		25.0	35	
Perfluorohexanesulfonic acid (PFHxS)	3.72	0.216	"	3.94	ND	94.5	25-150		7.24	35	
Perfluorooctanoic acid (PFOA)	3.74	0.216	"	4.33	ND	86.6	25-150		28.3	35	
Perfluorooctanesulfonic acid (PFOS)	4.78	0.216	"	4.00	ND	119	25-150		10.6	35	
Perfluorononanoic acid (PFNA)	4.23	0.216	"	4.33	ND	97.8	25-150		6.44	35	
Perfluorodecanoic acid (PFDA)	3.84	0.216	"	4.33	ND	88.7	25-150		7.08	35	
Perfluoroundecanoic acid (PFUnA)	3.71	0.216	"	4.33	ND	85.7	25-150		16.8	35	
Perfluorododecanoic acid (PFDoA)	3.92	0.216	"	4.33	ND	90.6	25-150		14.6	35	
Perfluorotridecanoic acid (PFTriDA)	3.20	0.216	"	4.33	ND	74.0	25-150		1.51	35	
Perfluorotetradecanoic acid (PFTA)	3.95	0.216	"	4.33	ND	91.4	25-150		21.9	35	
N-MeFOSAA	3.80	0.216	"	4.33	ND	87.9	25-150		25.1	35	
N-EtFOSAA	4.09	0.216	"	4.33	ND	94.5	25-150		6.27	35	
Perfluoropentanoic acid (PFPeA)	4.27	0.216	"	4.33	ND	98.7	25-150		0.942	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.31	0.216	"	4.33	ND	99.7	25-150		13.0	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.22	0.216	"	4.13	ND	126	25-150		6.80	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.96	0.216	"	4.17	ND	119	25-150		17.3	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	7.60	0.216	"	4.11	ND	185	25-200		5.63	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	8.82	0.216	"	4.15	ND	212	25-200	High Bias	13.8	35	
Perfluoro-n-butanoic acid (PFBA)	3.89	0.216	"	4.33	0.509	78.2	25-150		14.6	35	
Surrogate: M3PFBS	3.38		"	4.02		84.1	25-150				
Surrogate: M5PFHxA	3.52		"	4.33		81.4	25-150				
Surrogate: M4PFHpA	3.74		"	4.33		86.4	25-150				
Surrogate: M3PFHxS	3.26		"	4.09		79.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.97		"	4.33		91.8	25-150				
Surrogate: M6PFDA	3.00		"	4.33		69.3	25-150				
Surrogate: M7PFUdA	3.43		"	4.33		79.3	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	3.66		"	4.33		84.6	25-150				
Surrogate: M2PFTeDA	3.16		"	4.33		73.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	3.74		"	4.33		86.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.38		"	4.14		57.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	3.81		"	4.33		88.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.39		"	4.33		55.2	10-150				
Surrogate: d3-N-MeFOSAA	2.85		"	4.33		66.0	25-150				
Surrogate: d5-N-EtFOSAA	2.98		"	4.33		68.8	25-150				
Surrogate: M2-6:2 FTS	2.75		"	4.11		66.9	25-200				
Surrogate: M2-8:2 FTS	2.13		"	4.14		51.3	25-200				
Surrogate: M9PFNA	2.84		"	4.33		65.6	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL11674 - EPA 3510C/1311

Blank (BL11674-BLK1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Endrin	ND	0.0000400	mg/L								
gamma-BHC (Lindane)	ND	0.0000400	"								
Heptachlor	ND	0.0000400	"								
Heptachlor epoxide	ND	0.0000400	"								
Methoxychlor	ND	0.0000400	"								
Toxaphene	ND	0.00100	"								
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.000725</i>		"	<i>0.00200</i>		<i>36.3</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.00156</i>		"	<i>0.00200</i>		<i>77.8</i>	<i>30-150</i>				

LCS (BL11674-BS1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Endrin	0.000723	0.0000400	mg/L	0.00100		72.3	40-140				
gamma-BHC (Lindane)	0.000853	0.0000400	"	0.00100		85.3	40-140				
Heptachlor	0.000801	0.0000400	"	0.00100		80.1	40-140				
Heptachlor epoxide	0.000920	0.0000400	"	0.00100		92.0	40-140				
Methoxychlor	0.000798	0.0000400	"	0.00100		79.8	40-140				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.000855</i>		"	<i>0.00200</i>		<i>42.7</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.00180</i>		"	<i>0.00200</i>		<i>90.0</i>	<i>30-150</i>				

LCS Dup (BL11674-BSD1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Endrin	0.000818	0.0000400	mg/L	0.00100		81.8	40-140	12.4	20		
gamma-BHC (Lindane)	0.00105	0.0000400	"	0.00100		105	40-140	20.7	20	Non-dir.	
Heptachlor	0.000918	0.0000400	"	0.00100		91.8	40-140	13.7	20		
Heptachlor epoxide	0.00112	0.0000400	"	0.00100		112	40-140	20.0	20		
Methoxychlor	0.000842	0.0000400	"	0.00100		84.2	40-140	5.33	20		
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.000781</i>		"	<i>0.00200</i>		<i>39.1</i>	<i>30-150</i>				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.00190</i>		"	<i>0.00200</i>		<i>95.0</i>	<i>30-150</i>				



Chlorinated Herbicides by GC/ECD - 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 BL11697 - EPA 3535A/1311											
Blank (BL11697-BLK1)											Prepared & Analyzed: 12/09/2021
2,4,5-TP (Silvex)	ND	0.00500	mg/L								
2,4-D	ND	0.00500	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>0.0768</i>		<i>"</i>	<i>0.125</i>		<i>61.4</i>	<i>10-130</i>				
LCS (BL11697-BS1)											Prepared & Analyzed: 12/09/2021
2,4,5-TP (Silvex)	0.0200	0.00500	mg/L	0.0400		50.0	10-139				
2,4-D	0.0225	0.00500	"	0.0400		56.2	10-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>0.0790</i>		<i>"</i>	<i>0.125</i>		<i>63.2</i>	<i>10-130</i>				
LCS Dup (BL11697-BSD1)											Prepared & Analyzed: 12/09/2021
2,4,5-TP (Silvex)	0.0198	0.00500	mg/L	0.0400		49.4	10-139		1.26	30	
2,4-D	0.0220	0.00500	"	0.0400		55.0	10-140		2.25	30	
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>0.0760</i>		<i>"</i>	<i>0.125</i>		<i>60.8</i>	<i>10-130</i>				
Matrix Spike (BL11697-MS1)											Prepared & Analyzed: 12/09/2021
		*Source sample: 21L0141-08 (S-16)									
2,4,5-TP (Silvex)	0.0290	0.00500	mg/L	0.0400	ND	72.5	20-140				
2,4-D	0.0225	0.00500	"	0.0400	ND	56.2	20-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	<i>0.0932</i>		<i>"</i>	<i>0.125</i>		<i>74.6</i>	<i>10-130</i>				



Gas Chromatography/Flame Ionization Detector - 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 BL11373 - EPA 5035A											
Blank (BL11373-BLK1)										Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	285		ug/L	200		143	70-130				
Duplicate (BL11373-DUP1)										*Source sample: 21L0141-08 (S-16) Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-GRO	84.6	86.8	mg/kg dry		75.1				11.9	30	
Surrogate: SURR: p-Bromofluorobenzene	200		ug/L	200		100	70-130				
Matrix Spike (BL11373-MS1)										*Source sample: 21L0141-08 (S-16) Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-GRO	5670		ug/L	20000	692	24.9	70-130	Low Bias			
Surrogate: SURR: p-Bromofluorobenzene	200		"	200		99.8	70-130				
Reference (BL11373-SRM1)										Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-GRO	132	20.0	mg/kg wet	181		73.2	21.5-509				
Surrogate: SURR: p-Bromofluorobenzene	322		ug/L	200		161	70-130				
Batch BL11386 - EPA 3550C											
Blank (BL11386-BLK1)										Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-DRO	ND	9.90	mg/kg wet								
Surrogate: Triacontane	6.75		"	9.90		68.1	30-150				
LCS (BL11386-BS1)										Prepared & Analyzed: 12/03/2021	
Total Petroleum Hydrocarbons-DRO	76.1	9.90	mg/kg wet	170		44.7	40-140				
Surrogate: Triacontane	5.92		"	9.90		59.8	30-150				
Matrix Spike (BL11386-MS1)										*Source sample: 21L0055-04 (Matrix Spike) Prepared: 12/03/2021 Analyzed: 12/06/2021	
Total Petroleum Hydrocarbons-DRO	78.2	10.1	mg/kg dry	173	12.7	37.8	30-150				
Surrogate: Triacontane	5.16		"	10.1		51.3	30-150				



Gas Chromatography/Flame Ionization Detector - 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 BL11386 - EPA 3550C											
Matrix Spike Dup (BL11386-MSD1)		*Source sample: 21L0055-04 (Matrix Spike Dup)					Prepared: 12/03/2021 Analyzed: 12/06/2021				
Total Petroleum Hydrocarbons-DRO	98.7	10.1	mg/kg dry	173	12.7	49.6	30-150		23.1	30	
Surrogate: <i>Triacontane</i>	6.42		"	10.1		63.8	30-150				
Batch BL11545 - EPA 5035A											
Blank (BL11545-BLK1)							Prepared & Analyzed: 12/07/2021				
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: <i>SURR: p-Bromofluorobenzene</i>	401		ug/L	200		200	70-130				
Duplicate (BL11545-DUP1)		*Source sample: 21L0307-01 (Duplicate)					Prepared & Analyzed: 12/07/2021				
Total Petroleum Hydrocarbons-GRO	305	213	mg/kg dry		315				3.28	30	
Surrogate: <i>SURR: p-Bromofluorobenzene</i>	239		ug/L	200		120	70-130				
Matrix Spike (BL11545-MS1)		*Source sample: 21L0307-01 (Matrix Spike)					Prepared & Analyzed: 12/07/2021				
Total Petroleum Hydrocarbons-GRO	6360		ug/L	20000	1190	25.9	70-130	Low Bias			
Surrogate: <i>SURR: p-Bromofluorobenzene</i>	249		"	200		125	70-130				
Reference (BL11545-SRM1)							Prepared & Analyzed: 12/07/2021				
Total Petroleum Hydrocarbons-GRO	152	20.0	mg/kg wet	181		83.8	21.5-509				
Surrogate: <i>SURR: p-Bromofluorobenzene</i>	485		ug/L	200		243	70-130				
Batch BL11647 - EPA 3550C											
Blank (BL11647-BLK1)							Prepared & Analyzed: 12/08/2021				
Total Petroleum Hydrocarbons-DRO	ND	9.90	mg/kg wet								
Surrogate: <i>Triacontane</i>	6.06		"	9.90		61.2	30-150				



Gas Chromatography/Flame Ionization Detector - 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 BL11647 - EPA 3550C											
LCS (BL11647-BS1)						Prepared & Analyzed: 12/08/2021					
Total Petroleum Hydrocarbons-DRO	112	9.90	mg/kg wet	170		66.0	40-140				
Surrogate: <i>Triacontane</i>	6.62		"	9.90		66.8	30-150				
Matrix Spike (BL11647-MS1)						*Source sample: 21L0301-15 (Matrix Spike) Prepared: 12/08/2021 Analyzed: 12/10/2021					
Total Petroleum Hydrocarbons-DRO	75.8	9.90	mg/kg wet	170	6.89	40.4	30-150				
Surrogate: <i>Triacontane</i>	4.38		"	9.90		44.2	30-150				
Matrix Spike Dup (BL11647-MSD1)						*Source sample: 21L0301-15 (Matrix Spike Dup) Prepared: 12/08/2021 Analyzed: 12/10/2021					
Total Petroleum Hydrocarbons-DRO	88.8	9.90	mg/kg wet	170	6.89	48.1	30-150		15.8	30	
Surrogate: <i>Triacontane</i>	5.43		"	9.90		54.8	30-150				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL11637 - EPA 3015A/1311

Blank (BL11637-BLK1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Arsenic	ND	0.017	mg/L								
Barium	ND	0.028	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Lead	ND	0.006	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								

LCS (BL11637-BS1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Arsenic	1.83		ug/mL	2.00		91.4	80-120				
Barium	2.10		"	2.00		105	80-120				
Cadmium	0.048		"	0.0500		95.7	80-120				
Chromium	0.203		"	0.200		101	80-120				
Lead	0.513		"	0.500		103	80-120				
Selenium	1.77		"	2.00		88.7	80-120				
Silver	0.049		"	0.0500		98.8	80-120				

Duplicate (BL11637-DUP1)

*Source sample: 21L0294-02 (Duplicate)

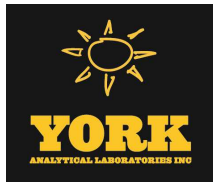
Prepared: 12/08/2021 Analyzed: 12/09/2021

Arsenic	ND	0.375	mg/L		ND					20	
Barium	ND	0.625	"		ND					20	
Cadmium	ND	0.075	"		ND					20	
Chromium	ND	0.125	"		ND					20	
Lead	ND	0.125	"		ND					20	
Selenium	ND	0.625	"		ND					20	
Silver	ND	0.125	"		ND					20	

Leach Fluid Blank (BL11637-LBK1)

Prepared: 12/08/2021 Analyzed: 12/09/2021

Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL11637 - EPA 3015A/1311

Matrix Spike (BL11637-MS1)	*Source sample: 21L0294-02 (Matrix Spike)						Prepared: 12/08/2021 Analyzed: 12/09/2021				
Arsenic	53.4	0.375	mg/L	50.0	ND	107	75-125				
Barium	58.6	0.625	"	50.0	ND	117	75-125				
Cadmium	1.37	0.075	"	1.25	ND	110	75-125				
Chromium	5.67	0.125	"	5.00	ND	113	75-125				
Lead	14.5	0.125	"	12.5	ND	116	75-125				
Selenium	52.3	0.625	"	50.0	ND	105	75-125				
Silver	1.41	0.125	"	1.25	ND	113	75-125				
Post Spike (BL11637-PS1)	*Source sample: 21L0294-02 (Post Spike)						Prepared: 12/08/2021 Analyzed: 12/09/2021				
Arsenic	1.93		ug/mL	2.00	-0.002	96.3	75-125				
Barium	2.12		"	2.00	0.018	105	75-125				
Cadmium	0.049		"	0.0500	-0.0001	98.4	75-125				
Chromium	0.205		"	0.200	-0.000005	102	75-125				
Lead	0.525		"	0.500	-0.002	105	75-125				
Selenium	1.87		"	2.00	0.012	93.1	75-125				
Silver	0.036		"	0.0500	-0.0003	71.5	75-125	Low Bias			



Mercury by EPA 7000/200 Series Methods - 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 BL11675 - EPA SW846-7470A											
Blank (BL11675-BLK1)								Prepared & Analyzed: 12/08/2021			
Mercury	ND	0.000200	mg/L								
Blank (BL11675-BLK2)								Prepared & Analyzed: 12/08/2021			
Mercury	ND	0.000200	mg/L								
LCS (BL11675-BS1)								Prepared & Analyzed: 12/08/2021			
Mercury	0.00212	0.000200	mg/L	0.00200		106	80-120				
LCS (BL11675-BS2)								Prepared & Analyzed: 12/08/2021			
Mercury	0.00215	0.000200	mg/L	0.00200		108	80-120				
Batch BL11741 - EPA SW846-7470A											
Blank (BL11741-BLK1)								Prepared & Analyzed: 12/09/2021			
Mercury	ND	0.000200	mg/L								
Blank (BL11741-BLK2)								Prepared & Analyzed: 12/09/2021			
Mercury	ND	0.000200	mg/L								
LCS (BL11741-BS1)								Prepared & Analyzed: 12/09/2021			
Mercury	0.00186	0.000200	mg/L	0.00200		92.9	80-120				
LCS (BL11741-BS2)								Prepared & Analyzed: 12/09/2021			
Mercury	0.00211	0.000200	mg/L	0.00200		105	80-120				



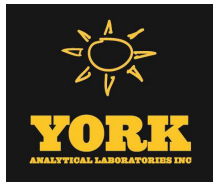
Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL11466 - Analysis Preparation											
Duplicate (BL11466-DUP1)	*Source sample: 21L0141-03 (S-11)						Prepared & Analyzed: 12/06/2021				
pH	7.43	0.500	pH units		7.40				0.405	10	
Temperature	23.0	1.00	°C		22.9				0.436	200	
Batch BL11520 - Analysis Preparation											
Blank (BL11520-BLK1)							Prepared & Analyzed: 12/07/2021				
Chemical Oxygen Demand (COD)	ND	10	mg/kg wet								
LCS (BL11520-BS1)							Prepared & Analyzed: 12/07/2021				
Chemical Oxygen Demand (COD)	99	10	mg/kg wet	100		99.1	0-200				
Duplicate (BL11520-DUP1)	*Source sample: 21L0141-08 (S-16)						Prepared & Analyzed: 12/07/2021				
Chemical Oxygen Demand (COD)	11000	1100	mg/kg dry		12000				11.1	25	
Matrix Spike (BL11520-MS1)	*Source sample: 21L0141-08 (S-16)						Prepared & Analyzed: 12/07/2021				
Chemical Oxygen Demand (COD)	23000	1100	mg/kg dry	217	12000	NR	0-200	High Bias			
Batch BL11574 - Analysis Preparation											
Blank (BL11574-BLK1)							Prepared & Analyzed: 12/07/2021				
Ammonia Nitrogen as N	ND	5.00	mg/kg								
Duplicate (BL11574-DUP1)	*Source sample: 21L0141-08 (S-16)						Prepared & Analyzed: 12/07/2021				
Ammonia Nitrogen as N	ND	5.00	mg/kg		ND					15	
Reference (BL11574-SRM1)							Prepared & Analyzed: 12/07/2021				
Ammonia Nitrogen as N	349	5.00	mg/kg	356		98.0	35.1-153.4				



Wet Chemistry Parameters - 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 BL11652 - Analysis Preparation											
Duplicate (BL11652-DUP1)	*Source sample: 21L0312-01 (Duplicate)						Prepared & Analyzed: 12/08/2021				
pH	9.20	0.500	pH units		9.18				0.218	10	
Temperature	20.1	1.00	°C		20.3				0.990	200	
Batch BL11700 - Analysis Preparation											
Blank (BL11700-BLK1)							Prepared & Analyzed: 12/09/2021				
Reactivity - Cyanide	ND	0.250	mg/kg								
Batch BL11701 - Analysis Preparation											
Blank (BL11701-BLK1)							Prepared & Analyzed: 12/09/2021				
Reactivity - Sulfide	ND	15.0	mg/kg								
Duplicate (BL11701-DUP1)	*Source sample: 21L0418-02 (Duplicate)						Prepared & Analyzed: 12/09/2021				
Reactivity - Sulfide	40.0	15.0	mg/kg		48.0				18.2	50	



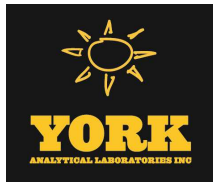
Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL11706 - % Solids Prep

Duplicate (BL11706-DUP1)	*Source sample: 21L0141-08 (S-16)					Prepared & Analyzed: 12/09/2021					
% Solids	93.1	0.100	%		92.2				0.967	20	



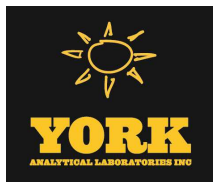
Leachate Preparations - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL11580 - EPA SW 846-1311 TCLP ZHE for VOA											
Blank (BL11580-BLK1)						Prepared: 12/07/2021 Analyzed: 12/08/2021					
TCLP Extraction	Completed	1.00	N/A								
Batch BL11598 - EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS											
Blank (BL11598-BLK1)						Prepared: 12/07/2021 Analyzed: 12/08/2021					
TCLP Extraction	Completed	1.00	N/A								
Batch BL11601 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BL11601-BLK1)						Prepared: 12/07/2021 Analyzed: 12/08/2021					
TCLP Extraction	Completed	1.00	N/A								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21L0141-01	S-9	40mL Vial with Stir Bar-Cool 4° C
21L0141-01	S-9	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-01	S-9	40mL 01_Clear Vial Cool to 4° C
21L0141-02	S-10	40mL Vial with Stir Bar-Cool 4° C
21L0141-02	S-10	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-02	S-10	40mL 01_Clear Vial Cool to 4° C
21L0141-03	S-11	40mL Vial with Stir Bar-Cool 4° C
21L0141-03	S-11	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-03	S-11	40mL 01_Clear Vial Cool to 4° C
21L0141-04	S-12	40mL Vial with Stir Bar-Cool 4° C
21L0141-04	S-12	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-04	S-12	40mL 01_Clear Vial Cool to 4° C
21L0141-05	S-13	40mL Vial with Stir Bar-Cool 4° C
21L0141-05	S-13	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-05	S-13	40mL 01_Clear Vial Cool to 4° C
21L0141-06	S-14	40mL Vial with Stir Bar-Cool 4° C
21L0141-06	S-14	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-06	S-14	40mL 01_Clear Vial Cool to 4° C
21L0141-07	S-15	40mL Vial with Stir Bar-Cool 4° C
21L0141-07	S-15	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-07	S-15	40mL 01_Clear Vial Cool to 4° C
21L0141-08	S-16	40mL Vial with Stir Bar-Cool 4° C
21L0141-08	S-16	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
21L0141-08	S-16	40mL 01_Clear Vial Cool to 4° C

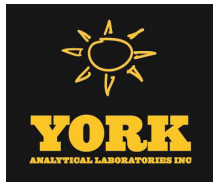


Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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.
PTel-VAR	This fluorotelomer acid is known to be unstable in mixtures of standards due to dehydrofluorination and formation of methoxy adducts. The data user should take note. These issues create variability in CCVs, LCSs and MSs.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PFAS-MSH	The recovery for this matrix spike compound was above control limits possibly due to matrix effects or non-homogeneity of the sample versus the native sample
PF-01	No Free Liquid
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.
IGN-01	Non-Ignit.
EXT-Temp	Extraction temperature slightly exceeded acceptance range.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-COMP	Completed

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW -846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 clientservices@yorklab.com www.yorklab.com 800-306-YORK 800-306-9675 Page 2 of 2

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company	Address	Company	Address	Company	Address	WESTCØ28		RUSH - Next Day	
FIRST Environmental	10 Park Place Bldg A 5th Fl	SAME	SAME	SAME	SAME	YOUR Project Name		RUSH - Two Day	
Phone	Phone	Phone	Phone	Phone	Phone	westerhester Airport		RUSH - Three Day	
973-334-0003						DISPORA		RUSH - Four Day	
Contact	Contact	Contact	Contact	Contact	Contact	YOUR PO#:		Standard (5-7 Day)	X
Scott Green/Dovebaer	Scott Green								
E-mail	E-mail	E-mail	E-mail	E-mail	E-mail				
ScottGreen@firstenvironment.com									

Please 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.

Samples Collected by: (print AND sign your name)	Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.
	S - soil / solid	GW - groundwater	New York	Other	Summary Report	CT RCP	
DHPL S-9			<input checked="" type="checkbox"/>		QA Report	Standard	Compared to the following Regulation(s): (please fill in)
S-10					NY ASP A Package	Excelsior	
S-11					NY ASP B Package	Standard	
S-12					Deliverables		
S-13					NJDEP Reduced		
S-14					NJDEP SRP HazSite		
S-15					Other:		
S-16							

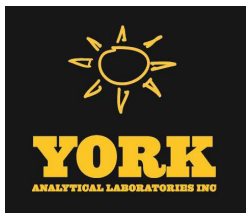
Sample Matrix	Date/Time Sampled	Analysis Requested	Container-Description
S	12/2/21 0835	FULL TCLP, PAINT FILTER	3X80Z
S	12/2/21 0845	RCRA characteristics, COD	3X TERRACOTE
S	12/2/21 0855	TPH/DRO/GRO, VOC, AMMONIA/NITROGEN	IX PLASTIC ZD
S	12/2/21 0905	PEAS	
S	12/2/21 0925		
S	12/2/21 0930		
S	12/2/21 0940		
S	12/2/21 0950		

Comments: Please run All samples for all parameters

1. Samples Relinquished by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Francisco York	12/2/21 1332	Francisco York	12/10/21 2108
4. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time

Samples Received in LAB by 104 Date/Time 12/10/21 2108 Temperature 5.3 Degrees C

APPENDIX F



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 08/20/2021
Client Project ID: 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)
York Project (SDG) No.: 21H0804

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/20/2021
Client Project ID: 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)
York Project (SDG) No.: 21H0804

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 August 17, 2021 and listed below. The project was identified as your project: **31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H0804-01	EFFLUENT 8/17	Water	08/17/2021	08/17/2021
21H0804-02	Trip Blank	Water	08/17/2021	08/17/2021

General Notes for York Project (SDG) No.: 21H0804

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 08/20/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H0804	31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	Water	August 17, 2021 12:30 pm	08/17/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	08/18/2021 09:00	08/18/2021 19:48	YG
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

York Project (SDG) No. 21H0804 **Client Project ID** 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA) **Matrix** Water **Collection Date/Time** August 17, 2021 12:30 pm **Date Received** 08/17/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 19:48	YG
Surrogate Recoveries		Result		Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	111 %		78-126						
2037-26-5	Surrogate: SURR: Toluene-d8	77.5 %	S-08	84-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	92.9 %		71-130						

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
95-50-1	* 1,2-Dichlorobenzene	ND		ug/L	5.13	1	EPA 625 Certifications:	08/18/2021 07:12	08/18/2021 22:50	KH
541-73-1	* 1,3-Dichlorobenzene	ND		ug/L	5.13	1	EPA 625 Certifications:	08/18/2021 07:12	08/18/2021 22:50	KH
106-46-7	* 1,4-Dichlorobenzene	ND		ug/L	5.13	1	EPA 625 Certifications:	08/18/2021 07:12	08/18/2021 22:50	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

<u>York Project (SDG) No.</u> 21H0804	<u>Client Project ID</u> 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> August 17, 2021 12:30 pm	<u>Date Received</u> 08/17/2021
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Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
95-57-8	2-Chlorophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
91-57-6	* 2-Methylnaphthalene	ND		ug/L	5.13	1	EPA 625 Certifications:	08/18/2021 07:12	08/18/2021 22:50	KH
88-75-5	2-Nitrophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
83-32-9	Acenaphthene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
208-96-8	Acenaphthylene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
62-53-3	Aniline	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
120-12-7	Anthracene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
92-87-5	Benzidine	ND		ug/L	20.5	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

<u>York Project (SDG) No.</u> 21H0804	<u>Client Project ID</u> 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> August 17, 2021 12:30 pm	<u>Date Received</u> 08/17/2021
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Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
100-51-6	* Benzyl alcohol	ND		ug/L	5.13	1	EPA 625 Certifications:	08/18/2021 07:12	08/18/2021 22:50	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
218-01-9	Chrysene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
84-66-2	Diethyl phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
131-11-3	Dimethyl phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
206-44-0	Fluoranthene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
86-73-7	Fluorene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
118-74-1	Hexachlorobenzene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
67-72-1	Hexachloroethane	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
78-59-1	Isophorone	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

<u>York Project (SDG) No.</u> 21H0804	<u>Client Project ID</u> 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> August 17, 2021 12:30 pm	<u>Date Received</u> 08/17/2021
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Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
98-95-3	Nitrobenzene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 07:12	08/18/2021 22:50	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 07:12	08/18/2021 22:50	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 07:12	08/18/2021 22:50	KH
87-86-5	Pentachlorophenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
85-01-8	Phenanthrene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
108-95-2	Phenol	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
129-00-0	Pyrene	ND		ug/L	5.13	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 07:12	08/18/2021 22:50	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	32.1 %	19.7-63.1							
4165-62-2	Surrogate: SURR: Phenol-d5	18.5 %	10.1-41.7							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	72.1 %	50.2-113							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.0 %	39.9-105							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	102 %	39.3-151							
1718-51-0	Surrogate: SURR: Terphenyl-d14	88.8 %	30.7-106							

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
57-74-9	Chlordane, total	ND		ug/L	0.0216	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

York Project (SDG) No. 21H0804 **Client Project ID** 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA) **Matrix** Water **Collection Date/Time** August 17, 2021 12:30 pm **Date Received** 08/17/2021

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
53494-70-5	* Endrin ketone	ND		ug/L	0.0108	1	EPA 608.3 Certifications: CTDOH	08/19/2021 07:26	08/20/2021 08:43	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/20/2021 08:43	CM
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	87.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	94.5 %	30-120							

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

York Project (SDG) No. 21H0804 **Client Project ID** 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA) **Matrix** Water **Collection Date/Time** August 17, 2021 12:30 pm **Date Received** 08/17/2021

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 608 Certifications: PADEP	08/19/2021 07:26	08/19/2021 17:45	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	87.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	85.0 %	30-120							

Arsenic by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	15.8		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Barium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	522		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Cadmium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Chromium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	1.08		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM



Sample Information

Client Sample ID: EFFLUENT 8/17

York Sample ID: 21H0804-01

<u>York Project (SDG) No.</u> 21H0804	<u>Client Project ID</u> 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> August 17, 2021 12:30 pm	<u>Date Received</u> 08/17/2021
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Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Nickel by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	3.42		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Selenium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	4.98		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Silver by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Zinc by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	50.1		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/18/2021 08:57	08/20/2021 13:51	WJM

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2021 20:12	08/17/2021 20:12	AA

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/17/2021 20:55	08/17/2021 21:35	ZTS



Sample Information

Client Sample ID: EFFLUENT 8/17 **York Sample ID:** 21H0804-01

York Project (SDG) No. 21H0804 **Client Project ID** 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA) **Matrix** Water **Collection Date/Time** August 17, 2021 12:30 pm **Date Received** 08/17/2021

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/19/2021 14:18	08/19/2021 22:11	ZTS

Oil & Grease

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
OILGREASE	Oil & Grease	ND		mg/L	0.500	1	EPA 1664A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/18/2021 14:51	08/18/2021 22:15	MAO

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* pH	7.78	HT-pH	pH units	0.500	1	SM 4500 H+B Certifications: CTDOH	08/18/2021 14:56	08/19/2021 21:29	MAO

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	1	EPA 420.1/2 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2021 08:42	08/20/2021 14:45	ALH

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 21H0804-02

York Project (SDG) No. 21H0804 **Client Project ID** 31402220.02 WESTCHESTER COUNTY AIRPORT (WCA) **Matrix** Water **Collection Date/Time** August 17, 2021 3:00 pm **Date Received** 08/17/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 21H0804-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21H0804

31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)

Water

August 17, 2021 3:00 pm

08/17/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	08/18/2021 09:00	08/18/2021 15:54	YG
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 21H0804-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H0804	31402220.02 WESTCHESTER COUNTY AIRPORT (WCA)	Water	August 17, 2021 3:00 pm	08/17/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	08/18/2021 09:00	08/18/2021 15:54	YG
	Surrogate Recoveries	Result		Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	112 %		78-126						
2037-26-5	Surrogate: SURRE: Toluene-d8	79.0 %	S-08	84-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	92.4 %		71-130						



Analytical Batch Summary

Batch ID: BH10914 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/17/21
BH10914-BLK1	Blank	08/17/21
BH10914-BS1	LCS	08/17/21
BH10914-DUP1	Duplicate	08/17/21
BH10914-MS1	Matrix Spike	08/17/21

Batch ID: BH10934 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/17/21
BH10934-BLK1	Blank	08/17/21
BH10934-BS1	LCS	08/17/21
BH10934-BS2	LCS	08/17/21

Batch ID: BH10937 **Preparation Method:** EPA 3510C **Prepared By:** JG

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/18/21
BH10937-BLK1	Blank	08/18/21
BH10937-BS1	LCS	08/18/21
BH10937-BSD1	LCS Dup	08/18/21

Batch ID: BH10948 **Preparation Method:** EPA 200.8 **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/18/21
BH10948-DUP1	Duplicate	08/18/21
BH10948-MS1	Matrix Spike	08/18/21

Batch ID: BH10968 **Preparation Method:** EPA 5030B **Prepared By:** YG

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/18/21
21H0804-02	Trip Blank	08/18/21
BH10968-BLK1	Blank	08/18/21
BH10968-BS1	LCS	08/18/21
BH10968-BS2	LCS	08/18/21
BH10968-BSD1	LCS Dup	08/18/21
BH10968-BSD2	LCS Dup	08/18/21

Batch ID: BH10987 **Preparation Method:** Analysis Preparation **Prepared By:** MAO



YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/18/21
BH10987-BLK1	Blank	08/18/21
BH10987-BS1	LCS	08/18/21

Batch ID: BH10990 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/18/21
BH10990-DUP1	Duplicate	08/18/21

Batch ID: BH11022 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** MC

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/19/21
21H0804-01	EFFLUENT 8/17	08/19/21
BH11022-BLK1	Blank	08/19/21
BH11022-BLK2	Blank	08/19/21
BH11022-BS1	LCS	08/19/21
BH11022-BS2	LCS	08/19/21
BH11022-BSD1	LCS Dup	08/19/21
BH11022-BSD2	LCS Dup	08/19/21

Batch ID: BH11066 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/19/21
BH11066-BLK1	Blank	08/19/21
BH11066-BS1	LCS	08/19/21
BH11066-DUP1	Duplicate	08/19/21
BH11066-MS1	Matrix Spike	08/19/21

Batch ID: BH11115 **Preparation Method:** Analysis Preparation **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21H0804-01	EFFLUENT 8/17	08/20/21
BH11115-BLK1	Blank	08/20/21
BH11115-BS1	LCS	08/20/21
BH11115-DUP1	Duplicate	08/20/21
BH11115-MS1	Matrix Spike	08/20/21



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
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Batch BH10968 - EPA 5030B

Blank (BH10968-BLK1)

Prepared & Analyzed: 08/18/2021

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>		<i>114</i>	<i>78-126</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>7.92</i>		<i>"</i>	<i>10.0</i>		<i>79.2</i>	<i>84-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>8.89</i>		<i>"</i>	<i>10.0</i>		<i>88.9</i>	<i>71-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					RPD	Limit
Batch BH10968 - EPA 5030B											
LCS (BH10968-BS1)										Prepared & Analyzed: 08/18/2021	
1,1,1-Trichloroethane	31		ug/L	20.0		156	78-136		High Bias		
1,1,2,2-Tetrachloroethane	19		"	20.0		96.8	76-129				
1,1,2-Trichloroethane	19		"	20.0		95.4	82-123				
1,1-Dichloroethane	30		"	20.0		152	82-129		High Bias		
1,1-Dichloroethylene	31		"	20.0		153	68-138		High Bias		
1,2-Dichlorobenzene	20		"	20.0		99.8	79-123				
1,2-Dichloroethane	30		"	20.0		151	73-132		High Bias		
1,2-Dichloropropane	21		"	20.0		104	78-126				
1,3-Dichlorobenzene	21		"	20.0		103	86-122				
1,4-Dichlorobenzene	20		"	20.0		102	84-124				
2-Chloroethylvinyl ether	20		"	20.0		101	10-201				
Acrolein	42		"	20.0		208	10-200		High Bias		
Acrylonitrile	31		"	20.0		157	49-160				
Benzene	30		"	20.0		150	85-126		High Bias		
Bromodichloromethane	20		"	20.0		100	79-128				
Bromoform	21		"	20.0		105	78-133				
Bromomethane	11		"	20.0		56.4	43-168				
Carbon tetrachloride	32		"	20.0		161	77-141		High Bias		
Chlorobenzene	22		"	20.0		108	88-120				
Chloroethane	34		"	20.0		169	65-136		High Bias		
Chloroform	30		"	20.0		150	82-128		High Bias		
Chloromethane	56		"	20.0		282	43-155		High Bias		
cis-1,2-Dichloroethylene	31		"	20.0		157	83-129		High Bias		
cis-1,3-Dichloropropylene	20		"	20.0		100	79-131				
Dibromochloromethane	20		"	20.0		99.8	80-130				
Ethyl Benzene	24		"	20.0		121	80-131				
Methyl tert-butyl ether (MTBE)	25		"	20.0		126	76-135				
Methylene chloride	34		"	20.0		169	55-137		High Bias		
Tetrachloroethylene	13		"	20.0		64.0	82-131		Low Bias		
Toluene	21		"	20.0		104	79-127				
trans-1,2-Dichloroethylene	31		"	20.0		156	80-132		High Bias		
trans-1,3-Dichloropropylene	20		"	20.0		97.8	78-131				
Trichloroethylene	21		"	20.0		104	82-128				
Trichlorofluoromethane	33		"	20.0		165	67-139		High Bias		
Vinyl Chloride	36		"	20.0		178	58-145		High Bias		
Surrogate: SURR: 1,2-Dichloroethane-d4	9.61		"	10.0		96.1	78-126				
Surrogate: SURR: Toluene-d8	8.56		"	10.0		85.6	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.92		"	10.0		99.2	71-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
Batch BH10968 - EPA 5030B										
LCS (BH10968-BS2)										
						Prepared & Analyzed: 08/18/2021				
1,1,1-Trichloroethane	29		ug/L	20.0		145	78-136	High Bias		
1,1,2,2-Tetrachloroethane	19		"	20.0		96.2	76-129			
1,1,2-Trichloroethane	19		"	20.0		96.9	82-123			
1,1-Dichloroethane	28		"	20.0		142	82-129	High Bias		
1,1-Dichloroethylene	28		"	20.0		141	68-138	High Bias		
1,2-Dichlorobenzene	18		"	20.0		89.7	79-123			
1,2-Dichloroethane	31		"	20.0		156	73-132	High Bias		
1,2-Dichloropropane	20		"	20.0		98.2	78-126			
1,3-Dichlorobenzene	18		"	20.0		88.9	86-122			
1,4-Dichlorobenzene	18		"	20.0		89.0	84-124			
2-Chloroethylvinyl ether	0.0		"	20.0			10-201	Low Bias		
Acrolein	46		"	20.0		231	10-200	High Bias		
Acrylonitrile	35		"	20.0		173	49-160	High Bias		
Benzene	28		"	20.0		142	85-126	High Bias		
Bromodichloromethane	19		"	20.0		97.2	79-128			
Bromoform	22		"	20.0		108	78-133			
Bromomethane	15		"	20.0		73.4	43-168			
Carbon tetrachloride	30		"	20.0		149	77-141	High Bias		
Chlorobenzene	20		"	20.0		100	88-120			
Chloroethane	31		"	20.0		153	65-136	High Bias		
Chloroform	29		"	20.0		145	82-128	High Bias		
Chloromethane	49		"	20.0		247	43-155	High Bias		
cis-1,2-Dichloroethylene	30		"	20.0		149	83-129	High Bias		
cis-1,3-Dichloropropylene	19		"	20.0		96.4	79-131			
Dibromochloromethane	20		"	20.0		101	80-130			
Ethyl Benzene	21		"	20.0		103	80-131			
Methyl tert-butyl ether (MTBE)	28		"	20.0		138	76-135	High Bias		
Methylene chloride	32		"	20.0		162	55-137	High Bias		
Tetrachloroethylene	11		"	20.0		56.6	82-131	Low Bias		
Toluene	19		"	20.0		94.7	79-127			
trans-1,2-Dichloroethylene	29		"	20.0		145	80-132	High Bias		
trans-1,3-Dichloropropylene	19		"	20.0		97.0	78-131			
Trichloroethylene	18		"	20.0		90.8	82-128			
Trichlorofluoromethane	29		"	20.0		145	67-139	High Bias		
Vinyl Chloride	32		"	20.0		162	58-145	High Bias		
Surrogate: SURR: 1,2-Dichloroethane-d4	10.8		"	10.0		108	78-126			
Surrogate: SURR: Toluene-d8	8.10		"	10.0		81.0	84-117			
Surrogate: SURR: p-Bromofluorobenzene	9.40		"	10.0		94.0	71-130			



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 BH10968 - EPA 5030B											
LCS Dup (BH10968-BSD1)											
Prepared & Analyzed: 08/18/2021											
1,1,1-Trichloroethane	31		ug/L	20.0		154	78-136	High Bias	1.94	30	
1,1,2,2-Tetrachloroethane	19		"	20.0		96.8	76-129		0.103	30	
1,1,2-Trichloroethane	20		"	20.0		102	82-123		6.24	30	
1,1-Dichloroethane	30		"	20.0		151	82-129	High Bias	1.02	30	
1,1-Dichloroethylene	30		"	20.0		151	68-138	High Bias	1.51	30	
1,2-Dichlorobenzene	19		"	20.0		94.5	79-123		5.46	30	
1,2-Dichloroethane	32		"	20.0		159	73-132	High Bias	5.64	30	
1,2-Dichloropropane	21		"	20.0		104	78-126		0.289	30	
1,3-Dichlorobenzene	19		"	20.0		95.0	86-122		8.23	30	
1,4-Dichlorobenzene	19		"	20.0		94.8	84-124		6.97	30	
2-Chloroethylvinyl ether	21		"	20.0		107	10-201		5.73	30	
Acrolein	43		"	20.0		216	10-200	High Bias	3.86	30	
Acrylonitrile	35		"	20.0		174	49-160	High Bias	10.1	30	
Benzene	30		"	20.0		148	85-126	High Bias	1.27	30	
Bromodichloromethane	20		"	20.0		102	79-128		1.34	30	
Bromoform	22		"	20.0		112	78-133		5.81	30	
Bromomethane	14		"	20.0		68.0	43-168		18.5	30	
Carbon tetrachloride	32		"	20.0		158	77-141	High Bias	1.44	30	
Chlorobenzene	21		"	20.0		105	88-120		2.91	30	
Chloroethane	33		"	20.0		165	65-136	High Bias	1.89	30	
Chloroform	30		"	20.0		151	82-128	High Bias	0.632	30	
Chloromethane	54		"	20.0		272	43-155	High Bias	3.75	30	
cis-1,2-Dichloroethylene	31		"	20.0		157	83-129	High Bias	0.128	30	
cis-1,3-Dichloropropylene	20		"	20.0		101	79-131		0.647	30	
Dibromochloromethane	21		"	20.0		105	80-130		5.27	30	
Ethyl Benzene	22		"	20.0		111	80-131		8.16	30	
Methyl tert-butyl ether (MTBE)	28		"	20.0		142	76-135	High Bias	12.1	30	
Methylene chloride	34		"	20.0		170	55-137	High Bias	0.442	30	
Tetrachloroethylene	12		"	20.0		61.4	82-131	Low Bias	4.14	30	
Toluene	20		"	20.0		99.8	79-127		4.56	30	
trans-1,2-Dichloroethylene	31		"	20.0		154	80-132	High Bias	0.935	30	
trans-1,3-Dichloropropylene	20		"	20.0		102	78-131		3.86	30	
Trichloroethylene	20		"	20.0		99.9	82-128		4.02	30	
Trichlorofluoromethane	33		"	20.0		163	67-139	High Bias	1.01	30	
Vinyl Chloride	35		"	20.0		177	58-145	High Bias	0.789	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.7		"	10.0		107	78-126				
Surrogate: SURR: Toluene-d8	8.17		"	10.0		81.7	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.51		"	10.0		95.1	71-130				



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 BH10968 - EPA 5030B											
LCS Dup (BH10968-BSD2)											
Prepared & Analyzed: 08/18/2021											
1,1,1-Trichloroethane	31		ug/L	20.0		153	78-136	High Bias	5.53	30	
1,1,1,2,2-Tetrachloroethane	19		"	20.0		96.2	76-129		0.104	30	
1,1,2-Trichloroethane	20		"	20.0		98.0	82-123		1.18	30	
1,1-Dichloroethane	30		"	20.0		150	82-129	High Bias	5.47	30	
1,1-Dichloroethylene	30		"	20.0		152	68-138	High Bias	7.14	30	
1,2-Dichlorobenzene	18		"	20.0		92.0	79-123		2.48	30	
1,2-Dichloroethane	33		"	20.0		163	73-132	High Bias	4.52	30	
1,2-Dichloropropane	20		"	20.0		101	78-126		3.11	30	
1,3-Dichlorobenzene	18		"	20.0		91.4	86-122		2.83	30	
1,4-Dichlorobenzene	18		"	20.0		91.6	84-124		2.77	30	
2-Chloroethylvinyl ether	0.0		"	20.0			10-201	Low Bias		30	
Acrolein	45		"	20.0		224	10-200	High Bias	2.99	30	
Acrylonitrile	35		"	20.0		174	49-160	High Bias	0.980	30	
Benzene	30		"	20.0		149	85-126	High Bias	4.89	30	
Bromodichloromethane	20		"	20.0		100	79-128		3.09	30	
Bromoform	22		"	20.0		108	78-133		0.00	30	
Bromomethane	18		"	20.0		87.7	43-168		17.8	30	
Carbon tetrachloride	31		"	20.0		157	77-141	High Bias	5.56	30	
Chlorobenzene	21		"	20.0		103	88-120		2.80	30	
Chloroethane	33		"	20.0		164	65-136	High Bias	6.56	30	
Chloroform	30		"	20.0		152	82-128	High Bias	5.06	30	
Chloromethane	51		"	20.0		255	43-155	High Bias	2.93	30	
cis-1,2-Dichloroethylene	31		"	20.0		157	83-129	High Bias	5.49	30	
cis-1,3-Dichloropropylene	20		"	20.0		98.2	79-131		1.90	30	
Dibromochloromethane	20		"	20.0		102	80-130		1.13	30	
Ethyl Benzene	21		"	20.0		107	80-131		3.99	30	
Methyl tert-butyl ether (MTBE)	29		"	20.0		143	76-135	High Bias	3.34	30	
Methylene chloride	34		"	20.0		169	55-137	High Bias	3.99	30	
Tetrachloroethylene	12		"	20.0		58.4	82-131	Low Bias	3.04	30	
Toluene	19		"	20.0		97.1	79-127		2.50	30	
trans-1,2-Dichloroethylene	31		"	20.0		153	80-132	High Bias	5.39	30	
trans-1,3-Dichloropropylene	20		"	20.0		99.2	78-131		2.34	30	
Trichloroethylene	19		"	20.0		94.4	82-128		3.89	30	
Trichlorofluoromethane	30		"	20.0		152	67-139	High Bias	4.51	30	
Vinyl Chloride	35		"	20.0		175	58-145	High Bias	7.18	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.7		"	10.0		107	78-126				
Surrogate: SURR: Toluene-d8	8.09		"	10.0		80.9	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.54		"	10.0		95.4	71-130				



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
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Batch BH10937 - EPA 3510C

Blank (BH10937-BLK1)

Prepared & Analyzed: 08/18/2021

1,2,4-Trichlorobenzene	ND	5.00	ug/L								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	5.00	"								
Acenaphthylene	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	5.00	"								
Benzidine	ND	20.0	"								
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	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	5.00	"								
Chrysene	ND	5.00	"								
Dibenzo(a,h)anthracene	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	5.00	"								
Fluorene	ND	5.00	"								
Hexachlorobenzene	ND	5.00	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	5.00	"								
Isophorone	ND	5.00	"								



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
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Batch BH10937 - EPA 3510C

Blank (BH10937-BLK1)

Prepared & Analyzed: 08/18/2021

Naphthalene	ND	5.00	ug/L								
Nitrobenzene	ND	5.00	"								
N-Nitrosodimethylamine	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	5.00	"								
Phenanthrene	ND	5.00	"								
Phenol	ND	5.00	"								
Pyrene	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	16.1		"	50.0		32.3	19.7-63.1				
Surrogate: SURR: Phenol-d5	10.0		"	50.0		20.0	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	20.6		"	25.0		82.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	17.2		"	25.0		69.0	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	50.5		"	50.0		101	39.3-151				
Surrogate: SURR: Terphenyl-d14	22.2		"	25.0		88.6	30.7-106				

LCS (BH10937-BS1)

Prepared & Analyzed: 08/18/2021

1,2,4-Trichlorobenzene	18.3	5.00	ug/L	25.0		73.1	35-91				
1,2-Dichlorobenzene	17.4	5.00	"	25.0		69.5	42-85				
1,3-Dichlorobenzene	16.9	5.00	"	25.0		67.6	45-80				
1,4-Dichlorobenzene	17.6	5.00	"	25.0		70.6	42-82				
2,4,5-Trichlorophenol	21.9	5.00	"	25.0		87.5	36-112				
2,4,6-Trichlorophenol	21.4	5.00	"	25.0		85.8	41-107				
2,4-Dichlorophenol	20.6	5.00	"	25.0		82.5	43-92				
2,4-Dimethylphenol	18.2	5.00	"	25.0		72.6	25-92				
2,4-Dinitrophenol	34.9	5.00	"	25.0		140	10-149				
2,4-Dinitrotoluene	27.7	5.00	"	25.0		111	41-114				
2,6-Dinitrotoluene	27.4	5.00	"	25.0		110	49-106	High Bias			
2-Chloronaphthalene	19.7	5.00	"	25.0		78.7	40-96				
2-Chlorophenol	17.9	5.00	"	25.0		71.5	35-84				
2-Methylnaphthalene	19.8	5.00	"	25.0		79.3	27-97				
2-Nitrophenol	26.8	5.00	"	25.0		107	37-97	High Bias			
3,3-Dichlorobenzidine	19.5	5.00	"	50.0		39.1	25-155				
4,6-Dinitro-2-methylphenol	38.1	5.00	"	25.0		153	10-135	High Bias			
4-Bromophenyl phenyl ether	20.2	5.00	"	25.0		80.6	38-116				
4-Chloro-3-methylphenol	20.6	5.00	"	25.0		82.3	28-101				
4-Chlorophenyl phenyl ether	19.6	5.00	"	25.0		78.4	34-112				
4-Nitrophenol	10.4	5.00	"	25.0		41.8	10-112				
Acenaphthene	19.5	5.00	"	25.0		78.0	24-114				
Acenaphthylene	19.7	5.00	"	25.0		79.0	26-112				
Aniline	13.3	5.00	"	25.0		53.1	10-132				
Anthracene	20.2	5.00	"	25.0		81.0	35-114				
Benzo(a)anthracene	20.6	5.00	"	25.0		82.4	38-127				
Benzo(a)pyrene	21.8	5.00	"	25.0		87.0	30-146				
Benzo(b)fluoranthene	21.0	5.00	"	25.0		83.9	36-145				
Benzo(g,h,i)perylene	21.7	5.00	"	25.0		86.8	10-163				
Benzo(k)fluoranthene	20.7	5.00	"	25.0		82.8	16-149				
Benzyl alcohol	15.6	5.00	"	25.0		62.6	11-82				
Benzyl butyl phthalate	23.4	5.00	"	25.0		93.5	28-129				
Bis(2-chloroethoxy)methane	20.2	5.00	"	25.0		80.6	27-112				
Bis(2-chloroethyl)ether	19.8	5.00	"	25.0		79.4	24-114				



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
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Batch BH10937 - EPA 3510C

LCS (BH10937-BS1)

Prepared & Analyzed: 08/18/2021

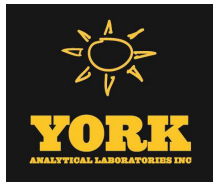
Bis(2-chloroisopropyl)ether	19.7	5.00	ug/L	25.0		78.9	21-124				
Bis(2-ethylhexyl)phthalate	23.2	5.00	"	25.0		92.9	10-171				
Chrysene	21.1	5.00	"	25.0		84.4	33-120				
Dibenzo(a,h)anthracene	22.4	5.00	"	25.0		89.4	10-149				
Diethyl phthalate	20.4	5.00	"	25.0		81.8	38-112				
Dimethyl phthalate	19.9	5.00	"	25.0		79.6	49-106				
Di-n-butyl phthalate	21.5	5.00	"	25.0		86.1	36-110				
Di-n-octyl phthalate	24.3	5.00	"	25.0		97.3	12-149				
Fluoranthene	20.4	5.00	"	25.0		81.6	33-126				
Fluorene	20.1	5.00	"	25.0		80.6	28-117				
Hexachlorobenzene	18.9	5.00	"	25.0		75.7	27-120				
Hexachlorobutadiene	17.8	5.00	"	25.0		71.0	25-106				
Hexachlorocyclopentadiene	14.0	5.00	"	25.0		56.2	10-99				
Hexachloroethane	17.7	5.00	"	25.0		70.8	33-84				
Indeno(1,2,3-cd)pyrene	20.3	5.00	"	25.0		81.4	10-150				
Isophorone	20.4	5.00	"	25.0		81.7	29-115				
Naphthalene	19.7	5.00	"	25.0		78.9	30-99				
Nitrobenzene	21.9	5.00	"	25.0		87.4	32-113				
N-Nitrosodimethylamine	8.70	5.00	"	25.0		34.8	10-63				
N-nitroso-di-n-propylamine	19.1	5.00	"	25.0		76.5	36-118				
N-Nitrosodiphenylamine	23.8	5.00	"	25.0		95.2	27-145				
Pentachlorophenol	21.7	5.00	"	25.0		86.6	19-127				
Phenanthrene	19.3	5.00	"	25.0		77.4	31-112				
Phenol	8.89	5.00	"	25.0		35.6	10-37				
Pyrene	21.0	5.00	"	25.0		84.2	42-125				
Surrogate: SURR: 2-Fluorophenol	19.3		"	50.0		38.6	19.7-63.1				
Surrogate: SURR: Phenol-d5	12.1		"	50.0		24.2	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	22.7		"	25.0		90.7	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	19.1		"	25.0		76.4	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	50.1		"	50.0		100	39.3-151				
Surrogate: SURR: Terphenyl-d14	20.6		"	25.0		82.4	30.7-106				



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 BH10937 - EPA 3510C											
LCS Dup (BH10937-BSD1)											
Prepared & Analyzed: 08/18/2021											
1,2,4-Trichlorobenzene	14.5	5.00	ug/L	25.0		58.0	35-91		22.9	20	Non-dir.
1,2-Dichlorobenzene	14.1	5.00	"	25.0		56.3	42-85		21.0	20	Non-dir.
1,3-Dichlorobenzene	13.7	5.00	"	25.0		54.7	45-80		21.0	20	Non-dir.
1,4-Dichlorobenzene	13.9	5.00	"	25.0		55.7	42-82		23.6	20	Non-dir.
2,4,5-Trichlorophenol	18.8	5.00	"	25.0		75.3	36-112		15.0	20	
2,4,6-Trichlorophenol	18.2	5.00	"	25.0		73.0	41-107		16.2	20	
2,4-Dichlorophenol	16.8	5.00	"	25.0		67.4	43-92		20.1	20	Non-dir.
2,4-Dimethylphenol	14.8	5.00	"	25.0		59.4	25-92		20.1	20	Non-dir.
2,4-Dinitrophenol	31.1	5.00	"	25.0		125	10-149		11.5	20	
2,4-Dinitrotoluene	24.7	5.00	"	25.0		98.9	41-114		11.3	20	
2,6-Dinitrotoluene	23.0	5.00	"	25.0		91.8	49-106		17.7	20	
2-Chloronaphthalene	15.6	5.00	"	25.0		62.4	40-96		23.0	20	Non-dir.
2-Chlorophenol	14.5	5.00	"	25.0		58.0	35-84		20.8	20	Non-dir.
2-Methylnaphthalene	16.0	5.00	"	25.0		64.1	27-97		21.3	20	Non-dir.
2-Nitrophenol	21.2	5.00	"	25.0		84.8	37-97		23.1	20	Non-dir.
3,3-Dichlorobenzidine	17.2	5.00	"	50.0		34.4	25-155		12.7	20	
4,6-Dinitro-2-methylphenol	34.5	5.00	"	25.0		138	10-135	High Bias	9.91	20	
4-Bromophenyl phenyl ether	17.2	5.00	"	25.0		68.9	38-116		15.7	20	
4-Chloro-3-methylphenol	18.0	5.00	"	25.0		72.0	28-101		13.3	20	
4-Chlorophenyl phenyl ether	16.3	5.00	"	25.0		65.2	34-112		18.4	20	
4-Nitrophenol	9.29	5.00	"	25.0		37.2	10-112		11.8	20	
Acenaphthene	16.2	5.00	"	25.0		64.7	24-114		18.7	20	
Acenaphthylene	16.1	5.00	"	25.0		64.4	26-112		20.3	20	Non-dir.
Aniline	10.3	5.00	"	25.0		41.2	10-132		25.3	20	Non-dir.
Anthracene	17.4	5.00	"	25.0		69.8	35-114		14.9	20	
Benzo(a)anthracene	18.0	5.00	"	25.0		71.8	38-127		13.6	20	
Benzo(a)pyrene	18.4	5.00	"	25.0		73.8	30-146		16.4	20	
Benzo(b)fluoranthene	18.0	5.00	"	25.0		71.8	36-145		15.6	20	
Benzo(g,h,i)perylene	18.3	5.00	"	25.0		73.2	10-163		17.0	20	
Benzo(k)fluoranthene	17.7	5.00	"	25.0		70.8	16-149		15.6	20	
Benzyl alcohol	12.7	5.00	"	25.0		51.0	11-82		20.5	20	Non-dir.
Benzyl butyl phthalate	20.5	5.00	"	25.0		82.0	28-129		13.1	20	
Bis(2-chloroethoxy)methane	16.4	5.00	"	25.0		65.4	27-112		20.8	20	Non-dir.
Bis(2-chloroethyl)ether	16.9	5.00	"	25.0		67.7	24-114		15.9	20	
Bis(2-chloroisopropyl)ether	16.0	5.00	"	25.0		64.0	21-124		20.9	20	Non-dir.
Bis(2-ethylhexyl)phthalate	20.8	5.00	"	25.0		83.2	10-171		11.0	20	
Chrysene	18.4	5.00	"	25.0		73.7	33-120		13.6	20	
Dibenzo(a,h)anthracene	18.8	5.00	"	25.0		75.3	10-149		17.2	20	
Diethyl phthalate	17.7	5.00	"	25.0		71.0	38-112		14.2	20	
Dimethyl phthalate	17.2	5.00	"	25.0		68.7	49-106		14.8	20	
Di-n-butyl phthalate	18.9	5.00	"	25.0		75.7	36-110		12.9	20	
Di-n-octyl phthalate	21.0	5.00	"	25.0		83.8	12-149		14.8	20	
Fluoranthene	17.8	5.00	"	25.0		71.2	33-126		13.5	20	
Fluorene	16.7	5.00	"	25.0		66.6	28-117		18.9	20	
Hexachlorobenzene	16.1	5.00	"	25.0		64.4	27-120		16.2	20	
Hexachlorobutadiene	14.5	5.00	"	25.0		57.8	25-106		20.4	20	Non-dir.
Hexachlorocyclopentadiene	10.8	5.00	"	25.0		43.4	10-99		25.7	20	Non-dir.
Hexachloroethane	14.1	5.00	"	25.0		56.4	33-84		22.7	20	Non-dir.
Indeno(1,2,3-cd)pyrene	17.2	5.00	"	25.0		68.9	10-150		16.6	20	
Isophorone	16.8	5.00	"	25.0		67.3	29-115		19.3	20	
Naphthalene	15.7	5.00	"	25.0		62.6	30-99		23.0	20	Non-dir.



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
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Batch BH10937 - EPA 3510C

LCS Dup (BH10937-BSD1)

Prepared & Analyzed: 08/18/2021

Nitrobenzene	17.4	5.00	ug/L	25.0		69.4	32-113		22.9	20	Non-dir.
N-Nitrosodimethylamine	7.31	5.00	"	25.0		29.2	10-63		17.4	20	
N-nitroso-di-n-propylamine	16.4	5.00	"	25.0		65.6	36-118		15.3	20	
N-Nitrosodiphenylamine	21.3	5.00	"	25.0		85.4	27-145		10.9	20	
Pentachlorophenol	19.1	5.00	"	25.0		76.4	19-127		12.5	20	
Phenanthrene	17.0	5.00	"	25.0		67.9	31-112		13.1	20	
Phenol	6.99	5.00	"	25.0		28.0	10-37		23.9	20	Non-dir.
Pyrene	18.6	5.00	"	25.0		74.5	42-125		12.2	20	
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>15.8</i>		<i>"</i>	<i>50.0</i>		<i>31.7</i>	<i>19.7-63.1</i>				
<i>Surrogate: SURR: Phenol-d5</i>	<i>10.0</i>		<i>"</i>	<i>50.0</i>		<i>20.1</i>	<i>10.1-41.7</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>18.1</i>		<i>"</i>	<i>25.0</i>		<i>72.5</i>	<i>50.2-113</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>15.8</i>		<i>"</i>	<i>25.0</i>		<i>63.1</i>	<i>39.9-105</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>44.7</i>		<i>"</i>	<i>50.0</i>		<i>89.5</i>	<i>39.3-151</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>18.1</i>		<i>"</i>	<i>25.0</i>		<i>72.5</i>	<i>30.7-106</i>				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH11022 - EPA SW846-3510C Low Level

Blank (BH11022-BLK1)

Prepared: 08/19/2021 Analyzed: 08/20/2021

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
<hr/>											
Surrogate: Tetrachloro-m-xylene	0.189		"	0.200		94.6	30-120				
Surrogate: Decachlorobiphenyl	0.159		"	0.200		79.4	30-120				

LCS (BH11022-BS1)

Prepared: 08/19/2021 Analyzed: 08/20/2021

4,4'-DDD	0.138	0.00400	ug/L	0.100	138	40-120	High Bias				
4,4'-DDE	0.130	0.00400	"	0.100	130	40-120	High Bias				
4,4'-DDT	0.140	0.00400	"	0.100	140	40-120	High Bias				
Aldrin	0.0985	0.00400	"	0.100	98.5	40-120					
alpha-BHC	0.117	0.00400	"	0.100	117	40-120					
beta-BHC	0.129	0.00400	"	0.100	129	40-120	High Bias				
delta-BHC	0.127	0.00400	"	0.100	127	40-120	High Bias				
Dieldrin	0.129	0.00200	"	0.100	129	40-120	High Bias				
Endosulfan I	0.123	0.00400	"	0.100	123	40-120	High Bias				
Endosulfan II	0.140	0.00400	"	0.100	140	40-120	High Bias				
Endosulfan sulfate	0.121	0.00400	"	0.100	121	40-120	High Bias				
Endrin	0.138	0.00400	"	0.100	138	40-120	High Bias				
Endrin aldehyde	0.109	0.0100	"	0.100	109	40-120					
Endrin ketone	0.134	0.0100	"	0.100	134	40-120	High Bias				
gamma-BHC (Lindane)	0.119	0.00400	"	0.100	119	40-120					
Heptachlor	0.137	0.00400	"	0.100	137	40-120	High Bias				
Heptachlor epoxide	0.128	0.00400	"	0.100	128	40-120	High Bias				
Methoxychlor	0.143	0.00400	"	0.100	143	40-120	High Bias				
<hr/>											
Surrogate: Tetrachloro-m-xylene	0.204		"	0.200	102	30-120					
Surrogate: Decachlorobiphenyl	0.158		"	0.200	78.9	30-120					



Organochlorine Pesticides by GC/ECD - 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 BH11022 - EPA SW846-3510C Low Level											
LCS Dup (BH11022-BSD1)						Prepared: 08/19/2021 Analyzed: 08/20/2021					
4,4'-DDD	0.136	0.00400	ug/L	0.100		136	40-120	High Bias	1.65	30	
4,4'-DDE	0.131	0.00400	"	0.100		131	40-120	High Bias	1.29	30	
4,4'-DDT	0.139	0.00400	"	0.100		139	40-120	High Bias	0.815	30	
Aldrin	0.0947	0.00400	"	0.100		94.7	40-120		3.89	30	
alpha-BHC	0.111	0.00400	"	0.100		111	40-120		6.03	30	
beta-BHC	0.133	0.00400	"	0.100		133	40-120	High Bias	3.18	30	
delta-BHC	0.135	0.00400	"	0.100		135	40-120	High Bias	5.87	30	
Dieldrin	0.128	0.00200	"	0.100		128	40-120	High Bias	0.253	30	
Endosulfan I	0.118	0.00400	"	0.100		118	40-120		4.20	30	
Endosulfan II	0.136	0.00400	"	0.100		136	40-120	High Bias	2.81	30	
Endosulfan sulfate	0.121	0.00400	"	0.100		121	40-120	High Bias	0.250	30	
Endrin	0.137	0.00400	"	0.100		137	40-120	High Bias	0.636	30	
Endrin aldehyde	0.109	0.0100	"	0.100		109	40-120		0.0211	30	
Endrin ketone	0.131	0.0100	"	0.100		131	40-120	High Bias	2.30	30	
gamma-BHC (Lindane)	0.112	0.00400	"	0.100		112	40-120		5.55	30	
Heptachlor	0.134	0.00400	"	0.100		134	40-120	High Bias	2.42	30	
Heptachlor epoxide	0.124	0.00400	"	0.100		124	40-120	High Bias	3.15	30	
Methoxychlor	0.148	0.00400	"	0.100		148	40-120	High Bias	3.49	30	
Surrogate: Tetrachloro-m-xylene	0.189		"	0.200		94.6	30-120				
Surrogate: Decachlorobiphenyl	0.139		"	0.200		69.4	30-120				



Polychlorinated Biphenyls by GC/ECD - 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 BH11022 - EPA SW846-3510C Low Level											
Blank (BH11022-BLK2)										Prepared & Analyzed: 08/19/2021	
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.181		"	0.200		90.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.134		"	0.200		67.0	30-120				
LCS (BH11022-BS2)										Prepared & Analyzed: 08/19/2021	
Aroclor 1016	0.881	0.0500	ug/L	1.00		88.1	40-120				
Aroclor 1260	0.775	0.0500	"	1.00		77.5	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.138		"	0.200		69.0	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0510		"	0.200		25.5	30-120				
LCS Dup (BH11022-BSD2)										Prepared & Analyzed: 08/19/2021	
Aroclor 1016	0.920	0.0500	ug/L	1.00		92.0	40-120	4.38	30		
Aroclor 1260	0.798	0.0500	"	1.00		79.8	40-120	2.92	30		
<i>Surrogate: Tetrachloro-m-xylene</i>	0.145		"	0.200		72.5	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.0770		"	0.200		38.5	30-120				



Metals by ICP/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
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Batch BH10948 - EPA 200.8

Duplicate (BH10948-DUP1)	*Source sample: 21H0804-01 (EFFLUENT 8/17)					Prepared: 08/18/2021 Analyzed: 08/20/2021					
Arsenic	15.6	1.00	ug/L		15.8				0.884	20	
Barium	546	1.00	"		522			4.49		20	
Cadmium	ND	0.500	"		ND					20	
Chromium	ND	1.00	"		ND					20	
Copper	1.06	1.00	"		1.08			1.42		20	
Lead	0.360	1.00	"		0.360			0.101		20	
Nickel	3.08	1.00	"		3.42			10.4		20	
Selenium	7.20	1.00	"		4.98			36.4		20	Non-dir.
Silver	ND	1.00	"		ND					20	
Zinc	43.0	1.00	"		50.1			15.2		20	

Matrix Spike (BH10948-MS1)	*Source sample: 21H0804-01 (EFFLUENT 8/17)					Prepared: 08/18/2021 Analyzed: 08/20/2021					
Arsenic	77.5		ug/L	50.0	15.8	124	75-125				
Barium	607		"	50.0	522	171	75-125	High Bias			
Cadmium	47.5		"	50.0	0.011	95.0	75-125				
Chromium	44.2		"	50.0	0.026	88.3	75-125				
Copper	42.5		"	50.0	1.08	82.8	75-125				
Lead	52.8		"	50.0	0.360	105	75-125				
Nickel	44.3		"	50.0	3.42	81.8	75-125				
Selenium	71.1		"	50.0	4.98	132	75-125	High Bias			
Silver	34.3		"	50.0	0.005	68.5	75-125	Low Bias			
Zinc	93.1		"	50.0	50.1	85.9	75-125				



Mercury by EPA 7000/200 Series Methods - 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 BH10934 - EPA 245.1 Mercury											
Blank (BH10934-BLK1)											
								Prepared & Analyzed: 08/17/2021			
Mercury	ND	0.0002000	mg/L								
LCS (BH10934-BS1)											
								Prepared & Analyzed: 08/17/2021			
Mercury	0.002398	0.0002000	mg/L	0.00200		120	75-125				
LCS (BH10934-BS2)											
								Prepared & Analyzed: 08/17/2021			
Mercury	0.001770	0.0002000	mg/L	0.00200		88.5	75-125				



Wet Chemistry Parameters - 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 BH10914 - Analysis Preparation											
Blank (BH10914-BLK1)											Prepared & Analyzed: 08/17/2021
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BH10914-BS1)											Prepared & Analyzed: 08/17/2021
Chromium, Hexavalent	0.485	0.0100	mg/L	0.500		97.0	80-120				
Duplicate (BH10914-DUP1)											*Source sample: 21H0799-01 (Duplicate) Prepared & Analyzed: 08/17/2021
Chromium, Hexavalent	ND	0.0100	mg/L		ND						20
Matrix Spike (BH10914-MS1)											*Source sample: 21H0799-01 (Matrix Spike) Prepared & Analyzed: 08/17/2021
Chromium, Hexavalent	0.448	0.0100	mg/L	0.500	ND	89.6	75-125				
Batch BH10987 - Analysis Preparation											
Blank (BH10987-BLK1)											Prepared & Analyzed: 08/18/2021
Oil & Grease	ND	0.500	mg/L								
LCS (BH10987-BS1)											Prepared & Analyzed: 08/18/2021
Oil & Grease	14.2	1.00	mg/L	16.0		88.8	78-114				
Batch BH10990 - Analysis Preparation											
Duplicate (BH10990-DUP1)											*Source sample: 21H0822-02 (Duplicate) Prepared: 08/18/2021 Analyzed: 08/19/2021
pH	7.10	0.500	pH units		7.03				0.991		10
Batch BH11066 - Analysis Preparation											
Blank (BH11066-BLK1)											Prepared & Analyzed: 08/19/2021
Cyanide, total	ND	0.0100	mg/L								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

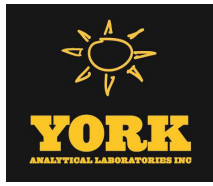
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH11066 - Analysis Preparation

LCS (BH11066-BS1)											
											Prepared & Analyzed: 08/19/2021
Cyanide, total	0.183	0.0100	mg/L	0.200		91.3	76.2-107				
Duplicate (BH11066-DUP1)											
*Source sample: 21H0806-01 (Duplicate)											Prepared & Analyzed: 08/19/2021
Cyanide, total	ND	0.0100	mg/L		ND						15
Matrix Spike (BH11066-MS1)											
*Source sample: 21H0806-01 (Matrix Spike)											Prepared & Analyzed: 08/19/2021
Cyanide, total	0.194	0.0100	mg/L	0.200	ND	97.2	79-105				

Batch BH11115 - Analysis Preparation

Blank (BH11115-BLK1)											
											Prepared & Analyzed: 08/20/2021
Phenols, total	ND	0.0500	mg/L								
LCS (BH11115-BS1)											
											Prepared & Analyzed: 08/20/2021
Phenols, total	0.938	0.0500	mg/L	1.00		93.8	67-116				
Duplicate (BH11115-DUP1)											
*Source sample: 21H0804-01 (EFFLUENT 8/17)											Prepared & Analyzed: 08/20/2021
Phenols, total	ND	0.0500	mg/L		ND						15
Matrix Spike (BH11115-MS1)											
*Source sample: 21H0804-01 (EFFLUENT 8/17)											Prepared & Analyzed: 08/20/2021
Phenols, total	0.930	0.0500	mg/L	1.00	ND	93.0	64.9-118				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21H0804-01	EFFLUENT 8/17	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21H0804-02	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

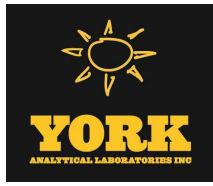


Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
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.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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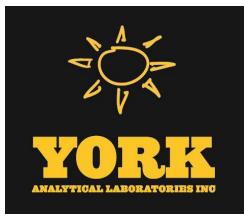
Field Chain-of-Custody Record

YORK Project No.
2170804

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page () of ()

YORK Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	WSP	Company:	SAME	Company:	SAME	31402220.02		RUSH - Next Day	<input type="checkbox"/>
Address:	500 SUMMIT LANE DR. VALHALLA, NY	Address:		Address:		WESTCHESTER COUNTY AIRPORT (WCA)		RUSH - Two Day	<input type="checkbox"/>
Phone:	914 461 2951	Phone:		Phone:		YOUR PO#: 31402220.02		RUSH - Three Day	<input type="checkbox"/>
Contact:	JOHN BENVENUTA @ WSP.COM	Contact:		Contact:				RUSH - Four Day	<input type="checkbox"/>
E-mail:		E-mail:		E-mail:				Standard (5-7 Day)	<input checked="" type="checkbox"/>
<p>Please 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.</p> <p>Michael K. DeFecio Samples Collected by: (print your name above and sign below) Michael K. DeFecio</p>									
Sample Identification		Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.				
EFFWENT 8/17		S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other	New York New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package NY ASP B Package	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite Other:	Compared to the following Regulation(s): (please fill in)			
Date/Time Sampled		Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description				
8/17/21 12:30		GW	8/17/21 12:30	HIGH PH, ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL, SILVER, ZINC	VARIOUS GPP				
<p>Comments: * 72 Hour TAT *</p>									
Samples Relinquished by / Company		Samples Received by / Company	Samples Relinquished by / Company	Preservation: (check all that apply)		Special Instruction			
8/17/21 12:30 WSP		8/17/21 12:30 Chic York	8/17/21 12:30 Chic York	MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/>		Field Filtered Lab to Filter			
Date/Time		Date/Time	Date/Time	Date/Time		Date/Time			
8/17/21 12:30		8/17/21 12:30	8/17/21 12:30	8/17/21 12:30		8/17/21 1500			
Samples Relinquished by / Company		Samples Received by / Company	Samples Relinquished by / Company	Samples Received by / Company		Temp. Received at Lab			
8/17/21 12:30		8/17/21 12:30	8/17/21 12:30	8/17/21 1500		3.5			
Date/Time		Date/Time	Date/Time	Date/Time		Degrees C			
8/17/21 12:30		8/17/21 12:30	8/17/21 12:30	8/17/21 1500		3.5			



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 08/30/2021
Client Project ID: 31402220.002 WCA
York Project (SDG) No.: 21H1236

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/30/2021
Client Project ID: 31402220.002 WCA
York Project (SDG) No.: 21H1236

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 August 25, 2021 and listed below. The project was identified as your project: **31402220.002 WCA**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21H1236-01	SYSTEM EFFLUENT	Waste Water	08/24/2021	08/25/2021

General Notes for York Project (SDG) No.: 21H1236

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Cassie L. Mosher
Laboratory Manager

Date: 08/30/2021





Sample Information

Client Sample ID: SYSTEM EFFLUENT

York Sample ID: 21H1236-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21H1236	31402220.002 WCA	Waste Water	August 24, 2021 11:00 am	08/25/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	2.60	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	4.41		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	9.24		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	4.43		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.04	1	EPA 537m Certifications:	08/26/2021 16:32	08/28/2021 01:17	WL



Sample Information

Client Sample ID: SYSTEM EFFLUENT

York Sample ID: 21H1236-01

<u>York Project (SDG) No.</u> 21H1236	<u>Client Project ID</u> 31402220.002 WCA	<u>Matrix</u> Waste Water	<u>Collection Date/Time</u> August 24, 2021 11:00 am	<u>Date Received</u> 08/25/2021
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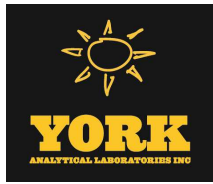
PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
	Surrogate: M3PFBS	48.0 %								
	Surrogate: M5PFHxA	69.5 %								
	Surrogate: M4PFHpA	45.1 %								
	Surrogate: M3PFHxS	64.1 %								
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	81.6 %								
	Surrogate: M6PFDA	71.5 %								
	Surrogate: M7PFUDA	68.6 %								
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	70.2 %								
	Surrogate: M2PFTeDA	55.0 %								
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	58.1 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.2 %								
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	13.4 %	PFSu-L							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.11 %	PFSu-L							
	Surrogate: d3-N-MeFOSAA	36.2 %								
	Surrogate: d5-N-EtFOSAA	50.7 %								
	Surrogate: M2-6:2 FTS	156 %								
	Surrogate: M2-8:2 FTS	94.0 %								
	Surrogate: M9PFNA	73.8 %								



Analytical Batch Summary

Batch ID: BH11543

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
21H1236-01	SYSTEM EFFLUENT	08/26/21
BH11543-BLK1	Blank	08/26/21
BH11543-BS1	LCS	08/26/21
BH11543-BSD1	LCS Dup	08/26/21



PFAS Target compounds by LC/MS-MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	
		Limit			Result					Limit	Flag

Batch BH11543 - SPE Ext-PFAS-EPA 537.1M

Blank (BH11543-BLK1)

Prepared: 08/26/2021 Analyzed: 08/27/2021

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	43.8		"	74.3		59.0	25-150				
Surrogate: M5PFHxA	48.6		"	80.0		60.7	25-150				
Surrogate: M4PFHpA	46.9		"	80.0		58.6	25-150				
Surrogate: M3PFHxS	46.8		"	75.7		61.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	49.3		"	80.0		61.6	25-150				
Surrogate: M6PFDA	53.2		"	80.0		66.6	25-150				
Surrogate: M7PFUdA	50.9		"	80.0		63.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	56.6		"	80.0		70.7	25-150				
Surrogate: M2PFTeDA	34.5		"	80.0		43.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	48.5		"	80.0		60.6	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	47.8		"	76.6		62.5	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	46.7		"	80.0		58.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	10.6		"	80.0		13.2	10-150				
Surrogate: d3-N-MeFOSAA	26.5		"	80.0		33.1	25-150				
Surrogate: d5-N-EtFOSAA	44.3		"	80.0		55.4	25-150				
Surrogate: M2-6:2 FTS	47.3		"	75.9		62.3	25-200				
Surrogate: M2-8:2 FTS	41.7		"	76.6		54.4	25-200				
Surrogate: M9PFNA	49.1		"	80.0		61.3	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

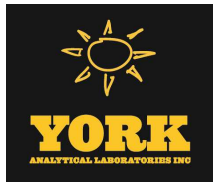
Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	
Batch BH11543 - SPE Ext-PFAS-EPA 537.1M											
LCS (BH11543-BS1)											
Prepared: 08/26/2021 Analyzed: 08/27/2021											
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	68.2	2.00	ng/L	76.8		88.8		50-175			
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.9	5.00	"	76.0		101		50-175			
N-EtFOSAA	88.3	2.00	"	80.0		110		50-130			
N-MeFOSAA	88.7	2.00	"	80.0		111		50-130			
Perfluoro-1-decanesulfonic acid (PFDS)	78.4	2.00	"	77.2		102		50-130			
Perfluoro-1-heptanesulfonic acid (PFHpS)	77.9	2.00	"	76.0		102		50-130			
Perfluoro-1-octanesulfonamide (FOSA)	80.4	2.00	"	80.0		100		50-130			
Perfluorobutanesulfonic acid (PFBS)	71.6	2.00	"	70.8		101		50-130			
Perfluorodecanoic acid (PFDA)	88.7	2.00	"	80.0		111		50-130			
Perfluorododecanoic acid (PFDoA)	81.7	2.00	"	80.0		102		50-130			
Perfluoroheptanoic acid (PFHpA)	77.7	2.00	"	80.0		97.2		50-130			
Perfluorohexanesulfonic acid (PFHxS)	72.5	2.00	"	73.0		99.4		50-130			
Perfluorohexanoic acid (PFHxA)	81.4	2.00	"	80.0		102		50-130			
Perfluoro-n-butanoic acid (PFBA)	79.4	2.00	"	80.0		99.2		50-130			
Perfluorononanoic acid (PFNA)	76.3	2.00	"	80.0		95.4		50-130			
Perfluorooctanesulfonic acid (PFOS)	77.8	2.00	"	74.1		105		50-130			
Perfluorooctanoic acid (PFOA)	78.5	2.00	"	80.0		98.1		50-130			
Perfluoropentanoic acid (PFPeA)	80.4	2.00	"	80.0		101		50-130			
Perfluorotetradecanoic acid (PFTA)	80.0	2.00	"	80.0		100		50-130			
Perfluorotridecanoic acid (PFTTrDA)	77.2	2.00	"	80.0		96.4		50-130			
Perfluoroundecanoic acid (PFUnA)	78.0	2.00	"	80.0		97.5		50-130			
Surrogate: M3PFBS	78.1		"	74.3		105		25-150			
Surrogate: M5PFHxA	83.9		"	80.0		105		25-150			
Surrogate: M4PFHpA	87.5		"	80.0		109		25-150			
Surrogate: M3PFHxS	81.4		"	75.7		108		25-150			
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	88.1		"	80.0		110		25-150			
Surrogate: M6PFDA	78.7		"	80.0		98.4		25-150			
Surrogate: M7PFUdA	87.7		"	80.0		110		25-150			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	84.8		"	80.0		106		25-150			
Surrogate: M2PFTeDA	75.9		"	80.0		94.8		10-150			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	84.9		"	80.0		106		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	83.5		"	76.6		109		25-150			
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	84.7		"	80.0		106		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	85.4		"	80.0		107		10-150			
Surrogate: d3-N-MeFOSAA	80.9		"	80.0		101		25-150			
Surrogate: d5-N-EtFOSAA	79.2		"	80.0		98.9		25-150			
Surrogate: M2-6:2 FTS	77.0		"	75.9		101		25-200			
Surrogate: M2-8:2 FTS	87.5		"	76.6		114		25-200			
Surrogate: M9PFNA	90.5		"	80.0		113		25-150			

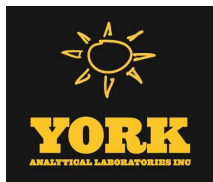


PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH11543 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BH11543-BSD1)											
Prepared: 08/26/2021 Analyzed: 08/27/2021											
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	76.7	2.00	ng/L	76.8		99.8	50-175		11.7	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	82.1	5.00	"	76.0		108	50-175		6.48	30	
N-EtFOSAA	81.1	2.00	"	80.0		101	50-130		8.45	30	
N-MeFOSAA	150	2.00	"	80.0		188	50-130	High Bias	51.4	30	Non-dir.
Perfluoro-1-decanesulfonic acid (PFDS)	71.8	2.00	"	77.2		93.0	50-130		8.73	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	81.8	2.00	"	76.0		108	50-130		4.97	30	
Perfluoro-1-octanesulfonamide (FOSA)	84.0	2.00	"	80.0		105	50-130		4.39	30	
Perfluorobutanesulfonic acid (PFBS)	71.1	2.00	"	70.8		100	50-130		0.695	30	
Perfluorodecanoic acid (PFDA)	74.8	2.00	"	80.0		93.4	50-130		17.1	30	
Perfluorododecanoic acid (PFDoA)	81.0	2.00	"	80.0		101	50-130		0.835	30	
Perfluoroheptanoic acid (PFHpA)	82.1	2.00	"	80.0		103	50-130		5.40	30	
Perfluorohexanesulfonic acid (PFHxS)	70.1	2.00	"	73.0		96.1	50-130		3.33	30	
Perfluorohexanoic acid (PFHxA)	81.1	2.00	"	80.0		101	50-130		0.368	30	
Perfluoro-n-butanoic acid (PFBA)	81.5	2.00	"	80.0		102	50-130		2.63	30	
Perfluorononanoic acid (PFNA)	77.1	2.00	"	80.0		96.4	50-130		1.04	30	
Perfluorooctanesulfonic acid (PFOS)	73.2	2.00	"	74.1		98.8	50-130		6.08	30	
Perfluorooctanoic acid (PFOA)	81.0	2.00	"	80.0		101	50-130		3.14	30	
Perfluoropentanoic acid (PFPeA)	83.6	2.00	"	80.0		104	50-130		3.82	30	
Perfluorotetradecanoic acid (PFTA)	79.9	2.00	"	80.0		99.8	50-130		0.145	30	
Perfluorotridecanoic acid (PFTTrDA)	53.9	2.00	"	80.0		67.4	50-130		35.5	30	Non-dir.
Perfluoroundecanoic acid (PFUnA)	80.5	2.00	"	80.0		101	50-130		3.13	30	
Surrogate: M3PFBS	58.5		"	74.3		78.6	25-150				
Surrogate: M5PFHxA	64.8		"	80.0		80.9	25-150				
Surrogate: M4PFHpA	63.3		"	80.0		79.1	25-150				
Surrogate: M3PFHxS	61.7		"	75.7		81.5	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	64.0		"	80.0		80.0	25-150				
Surrogate: M6PFDA	66.1		"	80.0		82.7	25-150				
Surrogate: M7PFUdA	67.7		"	80.0		84.7	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	82.9		"	80.0		104	25-150				
Surrogate: M2PFTeDA	49.7		"	80.0		62.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	64.4		"	80.0		80.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	60.6		"	76.6		79.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	61.6		"	80.0		76.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	7.18		"	80.0		8.97	10-150				
Surrogate: d3-N-MeFOSAA	31.2		"	80.0		39.0	25-150				
Surrogate: d5-N-EtFOSAA	58.5		"	80.0		73.1	25-150				
Surrogate: M2-6:2 FTS	64.7		"	75.9		85.2	25-200				
Surrogate: M2-8:2 FTS	60.2		"	76.6		78.5	25-200				
Surrogate: M9PFNA	65.2		"	80.0		81.5	25-150				





Sample and Data Qualifiers Relating to This Work Order

- PFSu-L The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
- PF-LCS-L The LCS recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
- PF-LCS-H The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.

Definitions and Other Explanations

- * Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW -846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- 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.

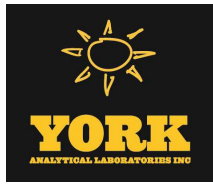
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.

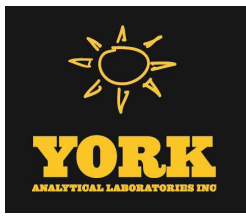
Certification for pH is no longer offered by NYDOH ELAP.

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



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)

500 Summit Lake Drive, Suite 450

Valhalla NY, 10595

Attention: John Benvegna

Report Date: 10/13/2021

Client Project ID: 31402220.02 Westchester County Airport (WCA)

York Project (SDG) No.: 2111419

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/13/2021
Client Project ID: 31402220.02 Westchester County Airport (WCA)
York Project (SDG) No.: 21I1419

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 September 30, 2021 and listed below. The project was identified as your project: **31402220.02 Westchester County Airport (WCA)**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21I1419-01	INFLUENT 9-30-21	Water	09/30/2021	09/30/2021
21I1419-02	EFFLUENT 9-30-21	Water	09/30/2021	09/30/2021
21I1419-03	FIELD DUP.	Water	09/30/2021	09/30/2021
21I1419-04	FIELD BLANK	Water	09/30/2021	09/30/2021

General Notes for York Project (SDG) No.: 2111419

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/13/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111419-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
2111419	31402220.02 Westchester County Airport (WCA)	Water	September 30, 2021 11:10 am	09/30/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	6.06		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	12.9		ng/L	4.63	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	35.7		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	64.0		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	10.7		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	20.9		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	177		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	39.2		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	14.4		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
375-95-1	* Perfluorononanoic acid (PFNA)	8.32		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	527		ng/L	18.5	10	EPA 537m Certifications:	10/11/2021 11:04	10/13/2021 10:17	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	42.7		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	34.0		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	4.29		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 22:57	WL



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111419-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
2111419	31402220.02 Westchester County Airport (WCA)	Water	September 30, 2021 11:10 am	09/30/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: M3PFBS	122 %								
	Surrogate: M5PFHxA	111 %								
	Surrogate: M4PFHpA	131 %								
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	115 %								
	Surrogate: M6PFDA	109 %								
	Surrogate: M7PFUdA	101 %								
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	97.0 %								
	Surrogate: M2PFTeDA	83.8 %								
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	115 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	112 %								
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	109 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	0.0698 %	PFSu-L							
	Surrogate: d3-N-MeFOSAA	69.9 %								
	Surrogate: d5-N-EtFOSAA	74.7 %								
	Surrogate: M2-6:2 FTS	100 %								
	Surrogate: M2-8:2 FTS	101 %								
	Surrogate: M9PFNA	99.2 %								

Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111419-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
2111419	31402220.02 Westchester County Airport (WCA)	Water	September 30, 2021 11:45 am	09/30/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111419-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111419

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:10	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	122 %	25-150
Surrogate: M5PFHxA	110 %	25-150
Surrogate: M4PFHpA	135 %	25-150
Surrogate: M3PFHxS	117 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	105 %	25-150
Surrogate: M6PFDA	119 %	25-150



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111419-02

<u>York Project (SDG) No.</u> 2111419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:45 am	<u>Date Received</u> 09/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	121 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	105 %			25-150					
	Surrogate: M2PFTeDA	80.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	122 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	113 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	126 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.10 %	PFSu-L		10-150					
	Surrogate: d3-N-MeFOSAA	92.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	88.2 %			25-150					
	Surrogate: M2-6:2 FTS	88.0 %			25-200					
	Surrogate: M2-8:2 FTS	125 %			25-200					
	Surrogate: M9PFNA	115 %			25-150					

Sample Information

Client Sample ID: FIELD DUP.

York Sample ID: 2111419-03

<u>York Project (SDG) No.</u> 2111419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 1:45 pm	<u>Date Received</u> 09/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL



Sample Information

Client Sample ID: FIELD DUP.

York Sample ID: 21I1419-03

<u>York Project (SDG) No.</u> 21I1419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 1:45 pm	<u>Date Received</u> 09/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	1.88		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:46	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	118 %	25-150
Surrogate: M5PFHxA	102 %	25-150
Surrogate: M4PFHpA	113 %	25-150
Surrogate: M3PFHxS	122 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	91.2 %	25-150
Surrogate: M6PFDA	112 %	25-150
Surrogate: M7PFUdA	114 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	95.9 %	25-150
Surrogate: M2PFTeDA	68.6 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	105 %	25-150



Sample Information

Client Sample ID: FIELD DUP.

York Sample ID: 2111419-03

<u>York Project (SDG) No.</u> 2111419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 1:45 pm	<u>Date Received</u> 09/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	119 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	109 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	17.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	82.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	71.0 %			25-150					
	Surrogate: M2-6:2 FTS	86.5 %			25-200					
	Surrogate: M2-8:2 FTS	107 %			25-200					
	Surrogate: M9PFNA	113 %			25-150					

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 2111419-04

<u>York Project (SDG) No.</u> 2111419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:50 am	<u>Date Received</u> 09/30/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL



Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 2111419-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111419

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:50 am

09/30/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	10/11/2021 11:04	10/12/2021 23:59	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	129 %	25-150
Surrogate: M5PFHxA	116 %	25-150
Surrogate: M4PFHpA	138 %	25-150
Surrogate: M3PFHxS	121 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	120 %	25-150
Surrogate: M6PFDA	112 %	25-150
Surrogate: M7PFUdA	109 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	92.7 %	25-150
Surrogate: M2PFTeDA	59.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	119 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	110 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	119 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	47.2 %	10-150
Surrogate: d3-N-MeFOSAA	67.1 %	25-150
Surrogate: d5-N-EtFOSAA	67.4 %	25-150
Surrogate: M2-6:2 FTS	120 %	25-200



Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 21I1419-04

<u>York Project (SDG) No.</u> 21I1419	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:50 am	<u>Date Received</u> 09/30/2021
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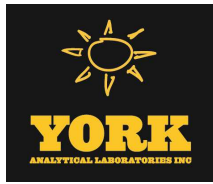
PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	130 %			25-200					
	Surrogate: M9PFNA	115 %			25-150					



Analytical Batch Summary

Batch ID: BJ10555

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
21I1419-01	INFLUENT 9-30-21	10/11/21
21I1419-01RE1	INFLUENT 9-30-21	10/11/21
21I1419-02	EFFLUENT 9-30-21	10/11/21
21I1419-03	FIELD DUP.	10/11/21
21I1419-04	FIELD BLANK	10/11/21
BJ10555-BLK1	Blank	10/11/21
BJ10555-BS1	LCS	10/11/21
BJ10555-MS1	Matrix Spike	10/11/21
BJ10555-MSD1	Matrix Spike Dup	10/11/21



PFAS Target compounds by LC/MS-MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	
		Limit			Result					Limit	Flag

Batch BJ10555 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ10555-BLK1)

Prepared: 10/11/2021 Analyzed: 10/12/2021

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	78.6		"	74.3		106	25-150				
Surrogate: M5PFHxA	77.8		"	80.0		97.2	25-150				
Surrogate: M4PFHpA	90.1		"	80.0		113	25-150				
Surrogate: M3PFHxS	79.7		"	75.7		105	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	79.2		"	80.0		99.0	25-150				
Surrogate: M6PFDA	90.7		"	80.0		113	25-150				
Surrogate: M7PFUdA	83.7		"	80.0		105	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	79.3		"	80.0		99.1	25-150				
Surrogate: M2PFTeDA	49.4		"	80.0		61.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.0		"	80.0		98.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	80.0		"	76.6		104	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	80.2		"	80.0		100	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	11.1		"	80.0		13.9	10-150				
Surrogate: d3-N-MeFOSAA	60.2		"	80.0		75.2	25-150				
Surrogate: d5-N-EtFOSAA	58.3		"	80.0		72.9	25-150				
Surrogate: M2-6:2 FTS	50.1		"	75.9		65.9	25-200				
Surrogate: M2-8:2 FTS	88.1		"	76.6		115	25-200				
Surrogate: M9PFNA	79.1		"	80.0		98.9	25-150				



PFAS Target compounds by LC/MS-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
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Batch BJ10555 - SPE Ext-PFAS-EPA 537.1M

LCS (BJ10555-BS1)

Prepared: 10/11/2021 Analyzed: 10/12/2021

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	73.3	2.00	ng/L	76.8		95.5	50-175				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	61.9	5.00	"	76.0		81.4	50-175				
N-EtFOSAA	67.7	2.00	"	80.0		84.6	50-130				
N-MeFOSAA	91.7	2.00	"	80.0		115	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	57.1	2.00	"	77.2		73.9	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	65.3	2.00	"	76.0		85.9	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	83.4	2.00	"	80.0		104	50-130				
Perfluorobutanesulfonic acid (PFBS)	61.9	2.00	"	70.8		87.4	50-130				
Perfluorodecanoic acid (PFDA)	70.9	2.00	"	80.0		88.7	50-130				
Perfluorododecanoic acid (PFDoA)	68.4	2.00	"	80.0		85.5	50-130				
Perfluoroheptanoic acid (PFHpA)	60.3	2.00	"	80.0		75.4	50-130				
Perfluorohexanesulfonic acid (PFHxS)	66.0	2.00	"	73.0		90.4	50-130				
Perfluorohexanoic acid (PFHxA)	72.2	2.00	"	80.0		90.2	50-130				
Perfluoro-n-butanoic acid (PFBA)	70.1	2.00	"	80.0		87.7	50-130				
Perfluorononanoic acid (PFNA)	67.7	2.00	"	80.0		84.7	50-130				
Perfluorooctanesulfonic acid (PFOS)	61.8	2.00	"	74.1		83.4	50-130				
Perfluorooctanoic acid (PFOA)	73.6	2.00	"	80.0		92.0	50-130				
Perfluoropentanoic acid (PFPeA)	70.4	2.00	"	80.0		88.1	50-130				
Perfluorotetradecanoic acid (PFTA)	67.5	2.00	"	80.0		84.4	50-130				
Perfluorotridecanoic acid (PFTrDA)	50.9	2.00	"	80.0		63.6	50-130				
Perfluoroundecanoic acid (PFUnA)	69.6	2.00	"	80.0		87.0	50-130				
Surrogate: M3PFBS	98.8		"	74.3		133	25-150				
Surrogate: M5PFHxA	97.9		"	80.0		122	25-150				
Surrogate: M4PFHpA	117		"	80.0		146	25-150				
Surrogate: M3PFHxS	98.5		"	75.7		130	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	93.7		"	80.0		117	25-150				
Surrogate: M6PFDA	105		"	80.0		131	25-150				
Surrogate: M7PFUdA	94.6		"	80.0		118	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	88.6		"	80.0		111	25-150				
Surrogate: M2PFTeDA	73.1		"	80.0		91.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	103		"	80.0		129	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	104		"	76.6		135	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	98.0		"	80.0		123	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.2		"	80.0		31.5	10-150				
Surrogate: d3-N-MeFOSAA	68.3		"	80.0		85.4	25-150				
Surrogate: d5-N-EtFOSAA	83.3		"	80.0		104	25-150				
Surrogate: M2-6:2 FTS	111		"	75.9		146	25-200				
Surrogate: M2-8:2 FTS	108		"	76.6		141	25-200				
Surrogate: M9PFNA	103		"	80.0		129	25-150				



PFAS Target compounds by LC/MS-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
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Batch BJ10555 - SPE Ext-PFAS-EPA 537.1M

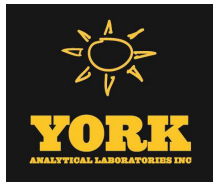
Matrix Spike (BJ10555-MS1)	*Source sample: 2111419-02 (EFFLUENT 9-30-21)						Prepared: 10/11/2021 Analyzed: 10/12/2021				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	63.8	1.85	ng/L	71.1	ND	89.7	25-200				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	65.1	4.63	"	70.4	ND	92.5	25-200				
N-EtFOSAA	64.6	1.85	"	74.1	ND	87.2	25-150				
N-MeFOSAA	68.4	1.85	"	74.1	ND	92.3	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	62.6	1.85	"	71.5	ND	87.6	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.7	1.85	"	70.4	ND	103	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	50.8	1.85	"	74.1	ND	68.6	25-150				
Perfluorobutanesulfonic acid (PFBS)	57.4	1.85	"	65.6	ND	87.6	25-150				
Perfluorodecanoic acid (PFDA)	58.7	1.85	"	74.1	ND	79.3	25-150				
Perfluorododecanoic acid (PFDoA)	65.0	1.85	"	74.1	ND	87.8	25-150				
Perfluoroheptanoic acid (PFHpA)	60.7	1.85	"	74.1	ND	82.0	25-150				
Perfluorohexanesulfonic acid (PFHxS)	59.8	1.85	"	67.6	ND	88.5	25-150				
Perfluorohexanoic acid (PFHxA)	65.6	1.85	"	74.1	ND	88.5	25-150				
Perfluoro-n-butanoic acid (PFBA)	64.8	1.85	"	74.1	ND	87.5	25-150				
Perfluorononanoic acid (PFNA)	67.2	1.85	"	74.1	ND	90.7	25-150				
Perfluorooctanesulfonic acid (PFOS)	61.9	1.85	"	68.6	ND	90.2	25-150				
Perfluorooctanoic acid (PFOA)	75.4	1.85	"	74.1	0.538	101	25-150				
Perfluoropentanoic acid (PFPeA)	62.7	1.85	"	74.1	ND	84.6	25-150				
Perfluorotetradecanoic acid (PFTA)	65.6	1.85	"	74.1	ND	88.6	25-150				
Perfluorotridecanoic acid (PFTrDA)	49.8	1.85	"	74.1	ND	67.3	25-150				
Perfluoroundecanoic acid (PFUnA)	65.2	1.85	"	74.1	ND	88.0	25-150				
Surrogate: M3PFBS	93.5		"	68.8		136	25-150				
Surrogate: M5PFHxA	94.3		"	74.1		127	25-150				
Surrogate: M4PFHpA	109		"	74.1		147	25-150				
Surrogate: M3PFHxS	95.1		"	70.1		136	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	80.6		"	74.1		109	25-150				
Surrogate: M6PFDA	102		"	74.1		137	25-150				
Surrogate: M7PFUdA	91.2		"	74.1		123	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	82.1		"	74.1		111	25-150				
Surrogate: M2PFTeDA	56.4		"	74.1		76.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	100		"	74.1		135	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	88.1		"	70.9		124	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	102		"	74.1		138	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.39		"	74.1		3.22	10-150				
Surrogate: d3-N-MeFOSAA	69.4		"	74.1		93.6	25-150				
Surrogate: d5-N-EtFOSAA	72.9		"	74.1		98.4	25-150				
Surrogate: M2-6:2 FTS	88.6		"	70.3		126	25-200				
Surrogate: M2-8:2 FTS	85.9		"	71.0		121	25-200				
Surrogate: M9PFNA	90.2		"	74.1		122	25-150				



PFAS Target compounds by LC/MS-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 BJ10555 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike Dup (BJ10555-MSD1)	*Source sample: 2111419-02 (EFFLUENT 9-30-21)						Prepared: 10/11/2021 Analyzed: 10/12/2021				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.9	1.85	ng/L	71.1	ND	87.1	25-200		2.99	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	72.2	4.63	"	70.4	ND	103	25-200		10.3	35	
N-EtFOSAA	72.4	1.85	"	74.1	ND	97.7	25-150		11.4	35	
N-MeFOSAA	70.3	1.85	"	74.1	ND	94.9	25-150		2.79	35	
Perfluoro-1-decanesulfonic acid (PFDS)	53.4	1.85	"	71.5	ND	74.8	25-150		15.8	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	67.5	1.85	"	70.4	ND	95.9	25-150		7.36	35	
Perfluoro-1-octanesulfonamide (FOSA)	73.3	1.85	"	74.1	ND	98.9	25-150		36.2	35	Non-dir.
Perfluorobutanesulfonic acid (PFBS)	58.8	1.85	"	65.6	ND	89.7	25-150		2.41	35	
Perfluorodecanoic acid (PFDA)	70.3	1.85	"	74.1	ND	94.9	25-150		17.9	35	
Perfluorododecanoic acid (PFDoA)	67.7	1.85	"	74.1	ND	91.4	25-150		4.10	35	
Perfluoroheptanoic acid (PFHpA)	57.1	1.85	"	74.1	ND	77.1	25-150		6.12	35	
Perfluorohexanesulfonic acid (PFHxS)	57.0	1.85	"	67.6	ND	84.4	25-150		4.71	35	
Perfluorohexanoic acid (PFHxA)	65.3	1.85	"	74.1	ND	88.2	25-150		0.379	35	
Perfluoro-n-butanoic acid (PFBA)	65.2	1.85	"	74.1	ND	88.0	25-150		0.640	35	
Perfluorononanoic acid (PFNA)	55.7	1.85	"	74.1	ND	75.2	25-150		18.7	35	
Perfluorooctanesulfonic acid (PFOS)	59.8	1.85	"	68.6	ND	87.2	25-150		3.47	35	
Perfluorooctanoic acid (PFOA)	62.0	1.85	"	74.1	0.538	82.9	25-150		19.6	35	
Perfluoropentanoic acid (PFPeA)	62.8	1.85	"	74.1	ND	84.8	25-150		0.191	35	
Perfluorotetradecanoic acid (PFTA)	65.3	1.85	"	74.1	ND	88.1	25-150		0.522	35	
Perfluorotridecanoic acid (PFTrDA)	52.1	1.85	"	74.1	ND	70.4	25-150		4.49	35	
Perfluoroundecanoic acid (PFUnA)	61.5	1.85	"	74.1	ND	83.1	25-150		5.74	35	
Surrogate: M3PFBS	87.8		"	68.8		128	25-150				
Surrogate: M5PFHxA	88.0		"	74.1		119	25-150				
Surrogate: M4PFHpA	101		"	74.1		136	25-150				
Surrogate: M3PFHxS	90.8		"	70.1		130	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	83.3		"	74.1		112	25-150				
Surrogate: M6PFDA	85.6		"	74.1		116	25-150				
Surrogate: M7PFUdA	87.1		"	74.1		118	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	70.7		"	74.1		95.5	25-150				
Surrogate: M2PFTeDA	52.2		"	74.1		70.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	91.2		"	74.1		123	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	88.3		"	70.9		125	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	95.3		"	74.1		129	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	9.55		"	74.1		12.9	10-150				
Surrogate: d3-N-MeFOSAA	64.4		"	74.1		87.0	25-150				
Surrogate: d5-N-EtFOSAA	63.7		"	74.1		86.0	25-150				
Surrogate: M2-6:2 FTS	73.4		"	70.3		104	25-200				
Surrogate: M2-8:2 FTS	89.9		"	71.0		127	25-200				
Surrogate: M9PFNA	95.9		"	74.1		129	25-150				





Sample and Data Qualifiers Relating to This Work Order

- PFSu-L The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
- PFAS-MSL The recovery for this matrix spike compound was below control limits possibly due to matrix effects or non-homogeneity of the sample versus the native sample

Definitions and Other Explanations

- * Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- 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.

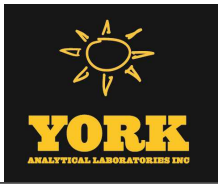
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.
217 1419

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 clientservices@yorklab.com www.yorklab.com 800-306-YORK 800-306-9675 Page of

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP	Company: ← GAME	Company: ← GAME	Company: ← GAME	340 220.02		Standard (5-7 Day) <input checked="" type="checkbox"/>		RUSH - Next Day	
Address: 500 SUMMIT LAKE DR. VALHALLA, NY 10595	Address: ← GAME	Address: ← GAME	Address: ← GAME	← GAME		YOUR Project Name		RUSH - Two Day	
Phone: 914 461 2951	Phone: ← GAME	Phone: ← GAME	Phone: ← GAME	← GAME		WESCHESLAR COUNTY		RUSH - Three Day	
Contact: JOHAN.BENVEGNA@WSP.COM	Contact: ← GAME	Contact: ← GAME	Contact: ← GAME	← GAME		ALEXANDER (WCA)		RUSH - Four Day	
E-mail: ← GAME	E-mail: ← GAME	E-mail: ← GAME	E-mail: ← GAME	← GAME		YOUR PO#:		Standard (5-7 Day)	<input checked="" type="checkbox"/>

Please 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.

WILHELM K DEFELICE
Mark K Defelice

Samples Collected by: (print AND sign your name)

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid	New York	Summary Report <input checked="" type="checkbox"/> CT RCP	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report <input type="checkbox"/> Standard Excel EDD	
DW - drinking water	Connecticut	NY ASP A Package <input type="checkbox"/> CT RCP DQ/DUE EQUIS (Standard)	
WW - wastewater	Pennsylvania	NY ASP B Package <input type="checkbox"/> NJDEP Reduced (NYSDEC EQUIS)	
O - Oil	Other:	NY ASP B Package Deliverables NJDEP SRP HazSite	
		NJDQKP Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
BLANK INFILTRANT 9/30/21	GW	1110	PFAS 537M	2 P.A.S.
MS (EFFLUENT 9/30/21)		1145		↓
MSD (EFFLUENT 9/30/21)		1145		1 P.A.S.
FIELD DUP.		---		1 P.A.S.
FIELD BLANK		1150		2 P.A.S.

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___

ZnAc ___ Ascorbic Acid ___ Other: ___

1. Samples Relinquished by / Company: Mark K Defelice WSP 9/30/21 13:45 Date/Time

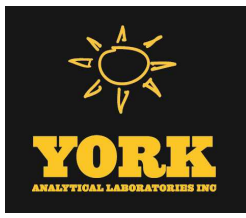
2. Samples Relinquished by / Company: Chw C York 9-30-21 13:45 Date/Time

3. Samples Relinquished by / Company: Chw C York 9-30-21 15:14 Date/Time

4. Samples Relinquished by / Company: Chw C York 9-30-21 15:14 Date/Time

5. Samples Relinquished by / Company: Chw C York 9-30-21 15:14 Date/Time

Temperature: 5.7 Degrees C



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 10/13/2021
Client Project ID: 31402220.02 Westchester County Airport (WCA)
York Project (SDG) No.: 2111427

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/13/2021
Client Project ID: 31402220.02 Westchester County Airport (WCA)
York Project (SDG) No.: 21I1427

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 September 30, 2021 and listed below. The project was identified as your project: **31402220.02 Westchester County Airport (WCA)**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21I1427-01	INFLUENT 9-30-21	Water	09/30/2021	09/30/2021
21I1427-02	EFFLUENT 9-30-21	Water	09/30/2021	09/30/2021
21I1427-03	TRIP BLANK	Water	09/30/2021	09/30/2021

General Notes for York Project (SDG) No.: 2111427

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/13/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
2111427	31402220.02 Westchester County Airport (WCA)	Water	September 30, 2021 11:10 am	09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	10/01/2021 09:00	10/01/2021 14:44	PD
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
67-66-3	Chloroform	3.2		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:10 am	<u>Date Received</u> 09/30/2021
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Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 14:44	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	78-126
2037-26-5	Surrogate: SURR: Toluene-d8	95.1 %	84-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.8 %	71-130

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
95-50-1	* 1,2-Dichlorobenzene	ND		ug/L	5.56	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:20	KH
541-73-1	* 1,3-Dichlorobenzene	ND		ug/L	5.56	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:20	KH
106-46-7	* 1,4-Dichlorobenzene	ND		ug/L	5.56	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:20	KH



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:10 am

09/30/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
91-57-6	* 2-Methylnaphthalene	ND		ug/L	5.56	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:20	KH
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
83-32-9	Acenaphthene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
208-96-8	Acenaphthylene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
62-53-3	Aniline	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
120-12-7	Anthracene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
92-87-5	Benzidine	ND		ug/L	22.2	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:10 am

09/30/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
100-51-6	* Benzyl alcohol	ND		ug/L	5.56	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:20	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
218-01-9	Chrysene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
206-44-0	Fluoranthene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
86-73-7	Fluorene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
118-74-1	Hexachlorobenzene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
67-72-1	Hexachloroethane	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:10 am	<u>Date Received</u> 09/30/2021
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Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:20	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:20	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:20	KH
87-86-5	Pentachlorophenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
85-01-8	Phenanthrene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
108-95-2	Phenol	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
129-00-0	Pyrene	ND		ug/L	5.56	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:20	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	29.8 %	19.7-63.1							
4165-62-2	Surrogate: SURR: Phenol-d5	21.3 %	10.1-41.7							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	68.8 %	50.2-113							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	58.3 %	39.9-105							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.6 %	39.3-151							
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.4 %	30.7-106							

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
309-00-2	Aldrin	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
319-84-6	alpha-BHC	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
319-85-7	beta-BHC	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

York Project (SDG) No.

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2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:10 am

09/30/2021

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.0229	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
319-86-8	delta-BHC	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
60-57-1	Dieldrin	ND		ug/L	0.00229	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
959-98-8	Endosulfan I	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
72-20-8	Endrin	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0114	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
53494-70-5	* Endrin ketone	ND		ug/L	0.0114	1	EPA 608.3 Certifications: CTDOH	10/06/2021 07:23	10/07/2021 09:55	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
76-44-8	Heptachlor	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
72-43-5	Methoxychlor	ND		ug/L	0.00457	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
8001-35-2	Toxaphene	ND		ug/L	0.114	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 09:55	CM
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	141 %	S-GC	30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	60.3 %		30-120						

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:10 am	<u>Date Received</u> 09/30/2021
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PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 608 Certifications: PADEP	10/05/2021 13:21	10/07/2021 08:33	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	90.0 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	51.0 %	30-120							

Arsenic by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/11/2021 15:49	BML

Barium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	88.0		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/11/2021 15:49	BML

Cadmium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/11/2021 15:49	BML

Chromium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/11/2021 15:49	BML

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst



Sample Information

Client Sample ID: INFLUENT 9-30-21

York Sample ID: 2111427-01

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:10 am	<u>Date Received</u> 09/30/2021
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Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	3.11		ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nickel by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	4.14		ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Selenium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Silver by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Zinc by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	69.4	B	ug/L	1.00	1	EPA 200.8	10/08/2021 16:56	10/11/2021 15:49	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1	10/04/2021 19:50	10/04/2021 19:50	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



Sample Information

Client Sample ID: INFLUENT 9-30-21 **York Sample ID:** 2111427-01
York Project (SDG) No.: 2111427 **Client Project ID:** 31402220.02 Westchester County Airport (WCA) **Matrix:** Water **Collection Date/Time:** September 30, 2021 11:10 am **Date Received:** 09/30/2021

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/30/2021 22:17	09/30/2021 22:51	MAO

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/05/2021 08:38	10/05/2021 16:33	JAMT

Oil & Grease

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
OILGREASE	Oil & Grease	ND		mg/L	0.556	1	EPA 1664A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/04/2021 13:23	10/04/2021 16:02	MAO

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* pH	8.00	HT-pH	pH units	0.500	1	SM 4500 H+B Certifications: CTDOH	10/04/2021 15:13	10/04/2021 22:57	MAO

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	1	EPA 420.1/2 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/05/2021 10:14	10/05/2021 17:00	AD

Sample Information

Client Sample ID: EFFLUENT 9-30-21 **York Sample ID:** 2111427-02
York Project (SDG) No.: 2111427 **Client Project ID:** 31402220.02 Westchester County Airport (WCA) **Matrix:** Water **Collection Date/Time:** September 30, 2021 11:45 am **Date Received:** 09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	10/01/2021 09:00	10/01/2021 15:11	PD
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 15:11	PD
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.6 %			78-126					
2037-26-5	Surrogate: SURR: Toluene-d8	95.0 %			84-117					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.8 %			71-130					

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
95-50-1	* 1,2-Dichlorobenzene	ND		ug/L	5.41	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:51	KH
541-73-1	* 1,3-Dichlorobenzene	ND		ug/L	5.41	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:51	KH
106-46-7	* 1,4-Dichlorobenzene	ND		ug/L	5.41	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:51	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
91-57-6	* 2-Methylnaphthalene	ND		ug/L	5.41	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:51	KH
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
83-32-9	Acenaphthene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
208-96-8	Acenaphthylene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
62-53-3	Aniline	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
120-12-7	Anthracene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
92-87-5	Benzidine	ND		ug/L	21.6	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:45 am	<u>Date Received</u> 09/30/2021
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Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
100-51-6	* Benzyl alcohol	ND		ug/L	5.41	1	EPA 625 Certifications:	10/05/2021 07:58	10/06/2021 00:51	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
218-01-9	Chrysene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
206-44-0	Fluoranthene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
86-73-7	Fluorene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
118-74-1	Hexachlorobenzene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
67-72-1	Hexachloroethane	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:51	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:51	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/05/2021 07:58	10/06/2021 00:51	KH
87-86-5	Pentachlorophenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
85-01-8	Phenanthrene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
108-95-2	Phenol	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
129-00-0	Pyrene	ND		ug/L	5.41	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 07:58	10/06/2021 00:51	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	25.8 %	19.7-63.1							
4165-62-2	Surrogate: SURR: Phenol-d5	17.6 %	10.1-41.7							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	62.2 %	50.2-113							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	51.2 %	39.9-105							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	61.0 %	39.3-151							
1718-51-0	Surrogate: SURR: Terphenyl-d14	61.4 %	30.7-106							

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
50-29-3	4,4'-DDT	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
309-00-2	Aldrin	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
319-84-6	alpha-BHC	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
319-85-7	beta-BHC	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
57-74-9	Chlordane, total	ND		ug/L	0.0222	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
60-57-1	Dieldrin	ND		ug/L	0.00222	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
959-98-8	Endosulfan I	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
72-20-8	Endrin	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
53494-70-5	* Endrin ketone	ND		ug/L	0.0111	1	EPA 608.3 Certifications: CTDOH	10/06/2021 07:23	10/07/2021 10:12	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
76-44-8	Heptachlor	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
72-43-5	Methoxychlor	ND		ug/L	0.00444	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
8001-35-2	Toxaphene	ND		ug/L	0.111	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/06/2021 07:23	10/07/2021 10:12	CM
	Surrogate Recoveries	Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	152 %	S-GC				30-120			
2051-24-3	Surrogate: Decachlorobiphenyl	60.2 %					30-120			

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:45 am	<u>Date Received</u> 09/30/2021
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PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 608 Certifications: PADEP	10/05/2021 13:21	10/07/2021 09:00	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	102 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	49.5 %	30-120							

Arsenic by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	10.5		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Barium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	160		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Cadmium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Chromium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	13.9		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:45 am	<u>Date Received</u> 09/30/2021
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Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Nickel by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	2.24		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Selenium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Silver by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Zinc by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	47.2	B	ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/08/2021 16:56	10/12/2021 12:23	BML

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0002437		mg/L	0.0002000	1	EPA 245.1 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/04/2021 19:50	10/04/2021 19:50	AA

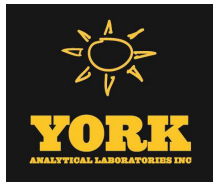
Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/30/2021 22:17	09/30/2021 22:51	MAO



Sample Information

Client Sample ID: EFFLUENT 9-30-21

York Sample ID: 2111427-02

York Project (SDG) No. 2111427 Client Project ID 31402220.02 Westchester County Airport (WCA) Matrix Water Collection Date/Time September 30, 2021 11:45 am Date Received 09/30/2021

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 57-12-5 Cyanide, total, ND, mg/L, 0.0100, 1, SM 4500 CN C/E, 10/05/2021 08:38, 10/05/2021 16:33, JAMT. Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Oil & Grease

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: OILGREASE Oil & Grease, ND, mg/L, 0.556, 1, EPA 1664A, 10/04/2021 13:23, 10/04/2021 16:02, MAO. Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: * pH, 8.10, HT-pH pH units, 0.500, 1, SM 4500 H+B, 10/04/2021 15:13, 10/04/2021 22:57, MAO. Certifications: CTDOH

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 64743-03-9 Phenols, total, ND, mg/L, 0.0500, 1, EPA 420.1/2, 10/05/2021 10:14, 10/05/2021 17:00, AD. Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 2111427-03

York Project (SDG) No. 2111427 Client Project ID 31402220.02 Westchester County Airport (WCA) Matrix Water Collection Date/Time September 30, 2021 11:45 am Date Received 09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows 1-4: 71-55-6 1,1,1-Trichloroethane, 79-34-5 1,1,2,2-Tetrachloroethane, 79-00-5 1,1,2-Trichloroethane, 75-34-3 1,1-Dichloroethane. All results are ND.



Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 2111427-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2111427

31402220.02 Westchester County Airport (WCA)

Water

September 30, 2021 11:45 am

09/30/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	10/01/2021 09:00	10/01/2021 11:37	PD
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD



Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 2111427-03

<u>York Project (SDG) No.</u> 2111427	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 30, 2021 11:45 am	<u>Date Received</u> 09/30/2021
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Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	10/01/2021 09:00	10/01/2021 11:37	PD
Surrogate Recoveries		Result	Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	100 %	78-126							
2037-26-5	Surrogate: SURRE: Toluene-d8	93.6 %	84-117							
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.0 %	71-130							



Analytical Batch Summary

Batch ID: BI11717 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	09/30/21
21I1427-02	EFFLUENT 9-30-21	09/30/21
BI11717-BLK1	Blank	09/30/21
BI11717-BS1	LCS	09/30/21
BI11717-BS2	LCS	09/30/21
BI11717-DUP1	Duplicate	09/30/21

Batch ID: BJ10014 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/01/21
21I1427-02	EFFLUENT 9-30-21	10/01/21
21I1427-03	TRIP BLANK	10/01/21
BJ10014-BLK1	Blank	10/01/21
BJ10014-BS1	LCS	10/01/21
BJ10014-BSD1	LCS Dup	10/01/21

Batch ID: BJ10132 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/04/21
21I1427-02	EFFLUENT 9-30-21	10/04/21
BJ10132-BLK1	Blank	10/04/21
BJ10132-BS1	LCS	10/04/21

Batch ID: BJ10153 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/04/21
21I1427-02	EFFLUENT 9-30-21	10/04/21
BJ10153-DUP1	Duplicate	10/04/21

Batch ID: BJ10177 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/04/21
21I1427-02	EFFLUENT 9-30-21	10/04/21
BJ10177-BLK1	Blank	10/04/21
BJ10177-BS1	LCS	10/04/21
BJ10177-DUP1	Duplicate	10/04/21
BJ10177-MS1	Matrix Spike	10/04/21



Batch ID: BJ10192

Preparation Method: EPA 3510C

Prepared By: MC

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/05/21
21I1427-02	EFFLUENT 9-30-21	10/05/21
BJ10192-BLK1	Blank	10/05/21
BJ10192-BS1	LCS	10/05/21
BJ10192-MS1	Matrix Spike	10/05/21
BJ10192-MS2	Matrix Spike	10/05/21
BJ10192-MSD1	Matrix Spike Dup	10/05/21
BJ10192-MSD2	Matrix Spike Dup	10/05/21

Batch ID: BJ10198

Preparation Method: Analysis Preparation

Prepared By: ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/05/21
21I1427-02	EFFLUENT 9-30-21	10/05/21
BJ10198-BLK1	Blank	10/05/21
BJ10198-BS1	LCS	10/05/21
BJ10198-DUP1	Duplicate	10/05/21
BJ10198-MS1	Matrix Spike	10/05/21

Batch ID: BJ10211

Preparation Method: Analysis Preparation

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/05/21
21I1427-02	EFFLUENT 9-30-21	10/05/21
BJ10211-BLK1	Blank	10/05/21
BJ10211-BS1	LCS	10/05/21
BJ10211-DUP1	Duplicate	10/05/21
BJ10211-MS1	Matrix Spike	10/05/21

Batch ID: BJ10232

Preparation Method: EPA SW846-3510C Low Level

Prepared By: JG

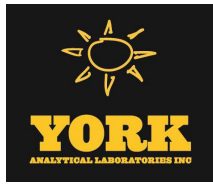
YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/05/21
21I1427-02	EFFLUENT 9-30-21	10/05/21
BJ10232-BLK2	Blank	10/05/21
BJ10232-BS2	LCS	10/05/21

Batch ID: BJ10265

Preparation Method: EPA SW846-3510C Low Level

Prepared By: MC

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/06/21
21I1427-02	EFFLUENT 9-30-21	10/06/21
BJ10265-BLK1	Blank	10/06/21
BJ10265-BS1	LCS	10/06/21



Batch ID: BJ10508

Preparation Method: EPA 200.8

Prepared By: K T

YORK Sample ID	Client Sample ID	Preparation Date
21I1427-01	INFLUENT 9-30-21	10/08/21
21I1427-02	EFFLUENT 9-30-21	10/08/21
BJ10508-BLK1	Blank	10/08/21
BJ10508-BS1	LCS	10/08/21
BJ10508-DUP1	Duplicate	10/08/21
BJ10508-MS1	Matrix Spike	10/08/21



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
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Batch BJ10014 - EPA 5030B

Blank (BJ10014-BLK1)

Prepared & Analyzed: 10/01/2021

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	9.96		"	10.0		99.6	78-126				
<i>Surrogate: Surr: Toluene-d8</i>	9.42		"	10.0		94.2	84-117				
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	9.72		"	10.0		97.2	71-130				



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
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Batch BJ10014 - EPA 5030B

LCS (BJ10014-BS1)

Prepared & Analyzed: 10/01/2021

1,1,1-Trichloroethane	21		ug/L	20.0		106	78-136				
1,1,2,2-Tetrachloroethane	21		"	20.0		104	76-129				
1,1,2-Trichloroethane	19		"	20.0		95.8	82-123				
1,1-Dichloroethane	21		"	20.0		105	82-129				
1,1-Dichloroethylene	21		"	20.0		107	68-138				
1,2-Dichlorobenzene	19		"	20.0		95.1	79-123				
1,2-Dichloroethane	20		"	20.0		98.8	73-132				
1,2-Dichloropropane	20		"	20.0		99.2	78-126				
1,3-Dichlorobenzene	20		"	20.0		97.7	86-122				
1,4-Dichlorobenzene	19		"	20.0		97.2	84-124				
2-Chloroethylvinyl ether	0.0		"	20.0			10-201	Low Bias			
Acrolein	24		"	20.0		121	10-200				
Acrylonitrile	20		"	20.0		102	49-160				
Benzene	22		"	20.0		110	85-126				
Bromodichloromethane	19		"	20.0		94.0	79-128				
Bromoform	18		"	20.0		91.0	78-133				
Bromomethane	13		"	20.0		64.4	43-168				
Carbon tetrachloride	21		"	20.0		107	77-141				
Chlorobenzene	20		"	20.0		102	88-120				
Chloroethane	23		"	20.0		117	65-136				
Chloroform	21		"	20.0		106	82-128				
Chloromethane	21		"	20.0		107	43-155				
cis-1,2-Dichloroethylene	20		"	20.0		102	83-129				
cis-1,3-Dichloropropylene	19		"	20.0		93.9	79-131				
Dibromochloromethane	19		"	20.0		94.8	80-130				
Ethyl Benzene	20		"	20.0		98.2	80-131				
Methyl tert-butyl ether (MTBE)	21		"	20.0		105	76-135				
Methylene chloride	19		"	20.0		95.2	55-137				
Tetrachloroethylene	13		"	20.0		65.7	82-131	Low Bias			
Toluene	20		"	20.0		98.4	79-127				
trans-1,2-Dichloroethylene	21		"	20.0		106	80-132				
trans-1,3-Dichloropropylene	18		"	20.0		92.2	78-131				
Trichloroethylene	19		"	20.0		96.2	82-128				
Trichlorofluoromethane	23		"	20.0		113	67-139				
Vinyl Chloride	23		"	20.0		117	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.53		"	10.0		95.3	78-126				
Surrogate: SURR: Toluene-d8	9.57		"	10.0		95.7	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.53		"	10.0		95.3	71-130				



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 BJ10014 - EPA 5030B											
LCS Dup (BJ10014-BSD1)											
Prepared & Analyzed: 10/01/2021											
1,1,1-Trichloroethane	21		ug/L	20.0		103	78-136		2.78	30	
1,1,1,2,2-Tetrachloroethane	23		"	20.0		116	76-129		11.5	30	
1,1,2-Trichloroethane	21		"	20.0		103	82-123		7.15	30	
1,1-Dichloroethane	20		"	20.0		102	82-129		2.08	30	
1,1-Dichloroethylene	21		"	20.0		103	68-138		3.67	30	
1,2-Dichlorobenzene	19		"	20.0		96.6	79-123		1.51	30	
1,2-Dichloroethane	21		"	20.0		103	73-132		4.11	30	
1,2-Dichloropropane	20		"	20.0		99.4	78-126		0.252	30	
1,3-Dichlorobenzene	19		"	20.0		96.6	86-122		1.08	30	
1,4-Dichlorobenzene	20		"	20.0		97.8	84-124		0.666	30	
2-Chloroethylvinyl ether	0.45		"	20.0		2.25	10-201	Low Bias		30	
Acrolein	26		"	20.0		132	10-200		8.98	30	
Acrylonitrile	24		"	20.0		118	49-160		14.3	30	
Benzene	22		"	20.0		108	85-126		1.66	30	
Bromodichloromethane	19		"	20.0		96.0	79-128		2.05	30	
Bromoform	20		"	20.0		100	78-133		9.93	30	
Bromomethane	15		"	20.0		73.0	43-168		12.5	30	
Carbon tetrachloride	21		"	20.0		103	77-141		3.82	30	
Chlorobenzene	20		"	20.0		102	88-120		0.489	30	
Chloroethane	22		"	20.0		112	65-136		4.19	30	
Chloroform	21		"	20.0		104	82-128		1.62	30	
Chloromethane	20		"	20.0		102	43-155		5.07	30	
cis-1,2-Dichloroethylene	20		"	20.0		100	83-129		2.12	30	
cis-1,3-Dichloropropylene	19		"	20.0		97.4	79-131		3.71	30	
Dibromochloromethane	20		"	20.0		102	80-130		7.02	30	
Ethyl Benzene	19		"	20.0		95.8	80-131		2.48	30	
Methyl tert-butyl ether (MTBE)	24		"	20.0		118	76-135		11.5	30	
Methylene chloride	19		"	20.0		95.5	55-137		0.262	30	
Tetrachloroethylene	13		"	20.0		64.7	82-131	Low Bias	1.53	30	
Toluene	19		"	20.0		97.2	79-127		1.28	30	
trans-1,2-Dichloroethylene	20		"	20.0		102	80-132		3.41	30	
trans-1,3-Dichloropropylene	20		"	20.0		98.0	78-131		6.10	30	
Trichloroethylene	18		"	20.0		92.4	82-128		3.98	30	
Trichlorofluoromethane	22		"	20.0		112	67-139		0.620	30	
Vinyl Chloride	23		"	20.0		114	58-145		3.20	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.76		"	10.0		97.6	78-126				
Surrogate: SURR: Toluene-d8	9.67		"	10.0		96.7	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.59		"	10.0		95.9	71-130				



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
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Batch BJ10192 - EPA 3510C

Blank (BJ10192-BLK1)

Prepared & Analyzed: 10/05/2021

1,2,4-Trichlorobenzene	ND	5.00	ug/L								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	5.00	"								
Acenaphthylene	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	5.00	"								
Benzidine	ND	20.0	"								
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	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	5.00	"								
Chrysene	ND	5.00	"								
Dibenzo(a,h)anthracene	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	5.00	"								
Fluorene	ND	5.00	"								
Hexachlorobenzene	ND	5.00	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	5.00	"								
Isophorone	ND	5.00	"								



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 BJ10192 - EPA 3510C											
Blank (BJ10192-BLK1)											
											Prepared & Analyzed: 10/05/2021
Naphthalene	ND	5.00	ug/L								
Nitrobenzene	ND	5.00	"								
N-Nitrosodimethylamine	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	5.00	"								
Phenanthrene	ND	5.00	"								
Phenol	ND	5.00	"								
Pyrene	ND	5.00	"								
<i>Surrogate: SURR: 2-Fluorophenol</i>	15.0		"	55.6		26.9	19.7-63.1				
<i>Surrogate: SURR: Phenol-d5</i>	8.91		"	55.6		16.0	10.1-41.7				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	18.7		"	27.8		67.2	50.2-113				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	16.3		"	27.8		58.8	39.9-105				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	51.5		"	55.6		92.6	39.3-151				
<i>Surrogate: SURR: Terphenyl-d14</i>	23.8		"	27.8		85.6	30.7-106				
LCS (BJ10192-BS1)											
											Prepared & Analyzed: 10/05/2021
1,2,4-Trichlorobenzene	17.2	5.00	ug/L	25.0		68.8	35-91				
1,2-Dichlorobenzene	15.8	5.00	"	25.0		63.3	42-85				
1,3-Dichlorobenzene	15.6	5.00	"	25.0		62.3	45-80				
1,4-Dichlorobenzene	16.0	5.00	"	25.0		64.0	42-82				
2,4,5-Trichlorophenol	21.0	5.00	"	25.0		84.1	36-112				
2,4,6-Trichlorophenol	20.1	5.00	"	25.0		80.4	41-107				
2,4-Dichlorophenol	20.6	5.00	"	25.0		82.3	43-92				
2,4-Dimethylphenol	18.0	5.00	"	25.0		72.0	25-92				
2,4-Dinitrophenol	30.1	5.00	"	25.0		120	10-149				
2,4-Dinitrotoluene	23.1	5.00	"	25.0		92.3	41-114				
2,6-Dinitrotoluene	22.5	5.00	"	25.0		90.1	49-106				
2-Chloronaphthalene	17.2	5.00	"	25.0		68.9	40-96				
2-Chlorophenol	16.3	5.00	"	25.0		65.2	35-84				
2-Methylnaphthalene	19.6	5.00	"	25.0		78.2	27-97				
2-Nitrophenol	22.5	5.00	"	25.0		90.2	37-97				
3,3-Dichlorobenzidine	16.8	5.00	"	50.0		33.6	25-155				
4,6-Dinitro-2-methylphenol	27.4	5.00	"	25.0		109	10-135				
4-Bromophenyl phenyl ether	20.0	5.00	"	25.0		80.1	38-116				
4-Chloro-3-methylphenol	22.7	5.00	"	25.0		90.7	28-101				
4-Chlorophenyl phenyl ether	19.3	5.00	"	25.0		77.1	34-112				
4-Nitrophenol	11.0	5.00	"	25.0		43.8	10-112				
Acenaphthene	18.0	5.00	"	25.0		72.1	24-114				
Acenaphthylene	18.2	5.00	"	25.0		72.6	26-112				
Aniline	12.7	5.00	"	25.0		50.8	10-132				
Anthracene	19.4	5.00	"	25.0		77.4	35-114				
Benzo(a)anthracene	19.6	5.00	"	25.0		78.6	38-127				
Benzo(a)pyrene	19.9	5.00	"	25.0		79.6	30-146				
Benzo(b)fluoranthene	19.4	5.00	"	25.0		77.7	36-145				
Benzo(g,h,i)perylene	20.1	5.00	"	25.0		80.4	10-163				
Benzo(k)fluoranthene	18.9	5.00	"	25.0		75.6	16-149				
Benzyl alcohol	14.1	5.00	"	25.0		56.3	11-82				
Benzyl butyl phthalate	22.7	5.00	"	25.0		90.8	28-129				
Bis(2-chloroethoxy)methane	17.3	5.00	"	25.0		69.3	27-112				
Bis(2-chloroethyl)ether	15.9	5.00	"	25.0		63.8	24-114				



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
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Batch BJ10192 - EPA 3510C

LCS (BJ10192-BS1)

Prepared & Analyzed: 10/05/2021

Bis(2-chloroisopropyl)ether	14.2	5.00	ug/L	25.0		56.7	21-124				
Bis(2-ethylhexyl)phthalate	22.6	5.00	"	25.0		90.6	10-171				
Chrysene	19.0	5.00	"	25.0		76.1	33-120				
Dibenzo(a,h)anthracene	21.2	5.00	"	25.0		84.8	10-149				
Diethyl phthalate	20.9	5.00	"	25.0		83.6	38-112				
Dimethyl phthalate	20.1	5.00	"	25.0		80.4	49-106				
Di-n-butyl phthalate	21.5	5.00	"	25.0		85.8	36-110				
Di-n-octyl phthalate	22.9	5.00	"	25.0		91.7	12-149				
Fluoranthene	20.4	5.00	"	25.0		81.5	33-126				
Fluorene	19.0	5.00	"	25.0		75.9	28-117				
Hexachlorobenzene	19.1	5.00	"	25.0		76.5	27-120				
Hexachlorobutadiene	18.0	5.00	"	25.0		72.2	25-106				
Hexachlorocyclopentadiene	11.8	5.00	"	25.0		47.0	10-99				
Hexachloroethane	16.3	5.00	"	25.0		65.1	33-84				
Indeno(1,2,3-cd)pyrene	19.6	5.00	"	25.0		78.2	10-150				
Isophorone	19.8	5.00	"	25.0		79.1	29-115				
Naphthalene	17.6	5.00	"	25.0		70.2	30-99				
Nitrobenzene	19.3	5.00	"	25.0		77.2	32-113				
N-Nitrosodimethylamine	6.18	5.00	"	25.0		24.7	10-63				
N-nitroso-di-n-propylamine	17.9	5.00	"	25.0		71.7	36-118				
N-Nitrosodiphenylamine	22.2	5.00	"	25.0		88.7	27-145				
Pentachlorophenol	21.3	5.00	"	25.0		85.2	19-127				
Phenanthrene	18.5	5.00	"	25.0		74.0	31-112				
Phenol	7.48	5.00	"	25.0		29.9	10-37				
Pyrene	20.0	5.00	"	25.0		80.0	42-125				
Surrogate: SURR: 2-Fluorophenol	18.0		"	55.6		32.4	19.7-63.1				
Surrogate: SURR: Phenol-d5	11.5		"	55.6		20.6	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	21.0		"	27.8		75.4	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.2		"	27.8		65.5	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	54.7		"	55.6		98.3	39.3-151				
Surrogate: SURR: Terphenyl-d14	22.6		"	27.8		81.3	30.7-106				



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
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Batch BJ10192 - EPA 3510C

Matrix Spike (BJ10192-MS1)	*Source sample: 2111393-02 (Matrix Spike)						Prepared: 10/05/2021 Analyzed: 10/06/2021				
1,2,4-Trichlorobenzene	17.6	5.26	ug/L	26.3	ND	66.7	31-92				
1,2-Dichlorobenzene	15.7	5.26	"	26.3	ND	59.5	31-91				
1,3-Dichlorobenzene	15.1	5.26	"	26.3	ND	57.4	24-93				
1,4-Dichlorobenzene	15.6	5.26	"	26.3	ND	59.4	26-95				
2,4,5-Trichlorophenol	23.2	5.26	"	26.3	ND	88.2	44-96				
2,4,6-Trichlorophenol	22.1	5.26	"	26.3	ND	84.1	39-107				
2,4-Dichlorophenol	21.8	5.26	"	26.3	ND	82.9	38-99				
2,4-Dimethylphenol	18.6	5.26	"	26.3	ND	70.8	10-116				
2,4-Dinitrophenol	25.6	5.26	"	26.3	ND	97.2	10-168				
2,4-Dinitrotoluene	23.5	5.26	"	26.3	ND	89.2	26-120				
2,6-Dinitrotoluene	22.9	5.26	"	26.3	ND	87.0	28-118				
2-Chloronaphthalene	17.8	5.26	"	26.3	ND	67.8	33-99				
2-Chlorophenol	15.9	5.26	"	26.3	ND	60.4	25-106				
2-Methylnaphthalene	19.9	5.26	"	26.3	ND	75.8	29-102				
2-Nitrophenol	22.4	5.26	"	26.3	ND	85.2	36-103				
3,3-Dichlorobenzidine	ND	5.26	"	52.6	ND		10-140	Low Bias			
4,6-Dinitro-2-methylphenol	26.9	5.26	"	26.3	ND	102	10-142				
4-Bromophenyl phenyl ether	21.6	5.26	"	26.3	ND	82.0	35-109				
4-Chloro-3-methylphenol	23.1	5.26	"	26.3	ND	87.8	20-117				
4-Chlorophenyl phenyl ether	20.1	5.26	"	26.3	ND	76.3	31-112				
4-Nitrophenol	11.7	5.26	"	26.3	ND	44.4	10-119				
Acenaphthene	19.5	5.26	"	26.3	ND	74.2	17-132				
Acenaphthylene	18.8	5.26	"	26.3	ND	71.4	13-124				
Aniline	11.2	5.26	"	26.3	ND	42.5	10-133				
Anthracene	20.5	5.26	"	26.3	ND	77.8	40-105				
Benzo(a)anthracene	21.1	5.26	"	26.3	ND	80.1	23-141				
Benzo(a)pyrene	20.0	5.26	"	26.3	ND	76.1	46-118				
Benzo(b)fluoranthene	19.9	5.26	"	26.3	ND	75.6	22-133				
Benzo(g,h,i)perylene	21.1	5.26	"	26.3	ND	80.2	10-126				
Benzo(k)fluoranthene	19.5	5.26	"	26.3	ND	74.2	18-152				
Benzyl alcohol	13.9	5.26	"	26.3	ND	52.7	10-114				
Benzyl butyl phthalate	25.5	5.26	"	26.3	ND	96.7	31-121				
Bis(2-chloroethoxy)methane	17.0	5.26	"	26.3	ND	64.7	23-110				
Bis(2-chloroethyl)ether	16.8	5.26	"	26.3	ND	63.8	10-132				
Bis(2-chloroisopropyl)ether	14.3	5.26	"	26.3	ND	54.5	12-132				
Bis(2-ethylhexyl)phthalate	25.2	5.26	"	26.3	ND	95.9	14-131				
Chrysene	20.6	5.26	"	26.3	ND	78.4	30-127				
Dibenzo(a,h)anthracene	22.7	5.26	"	26.3	ND	86.4	10-131				
Diethyl phthalate	21.8	5.26	"	26.3	ND	83.0	41-106				
Dimethyl phthalate	20.8	5.26	"	26.3	ND	79.2	38-105				
Di-n-butyl phthalate	23.1	5.26	"	26.3	ND	87.8	24-121				
Di-n-octyl phthalate	25.0	5.26	"	26.3	ND	95.0	25-141				
Fluoranthene	21.6	5.26	"	26.3	ND	82.0	29-123				
Fluorene	21.3	5.26	"	26.3	ND	80.8	20-133				
Hexachlorobenzene	20.7	5.26	"	26.3	ND	78.7	24-120				
Hexachlorobutadiene	18.4	5.26	"	26.3	ND	69.8	26-98				
Hexachlorocyclopentadiene	12.5	5.26	"	26.3	ND	47.6	10-103				
Hexachloroethane	17.2	5.26	"	26.3	ND	65.4	11-102				
Indeno(1,2,3-cd)pyrene	20.6	5.26	"	26.3	ND	78.2	10-130				
Isophorone	20.4	5.26	"	26.3	ND	77.4	19-113				
Naphthalene	17.8	5.26	"	26.3	ND	67.6	26-104				



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
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Batch BJ10192 - EPA 3510C

Matrix Spike (BJ10192-MS1)	*Source sample: 2111393-02 (Matrix Spike)						Prepared: 10/05/2021 Analyzed: 10/06/2021				
Nitrobenzene	19.3	5.26	ug/L	26.3	ND	73.2	25-107				
N-Nitrosodimethylamine	6.16	5.26	"	26.3	ND	23.4	10-110				
N-nitroso-di-n-propylamine	18.2	5.26	"	26.3	ND	69.2	16-127				
N-Nitrosodiphenylamine	23.4	5.26	"	26.3	ND	89.1	46-116				
Pentachlorophenol	18.3	5.26	"	26.3	ND	69.6	10-181				
Phenanthrene	21.5	5.26	"	26.3	2.11	73.9	29-121				
Phenol	8.05	5.26	"	26.3	ND	30.6	10-107				
Pyrene	22.6	5.26	"	26.3	ND	86.0	34-129				
Surrogate: SURRE: 2-Fluorophenol	16.4		"	58.5		28.0	19.7-63.1				
Surrogate: SURRE: Phenol-d5	10.6		"	58.5		18.2	10.1-41.7				
Surrogate: SURRE: Nitrobenzene-d5	20.8		"	29.3		71.0	50.2-113				
Surrogate: SURRE: 2-Fluorobiphenyl	18.9		"	29.3		64.6	39.9-105				
Surrogate: SURRE: 2,4,6-Tribromophenol	58.8		"	58.5		100	39.3-151				
Surrogate: SURRE: Terphenyl-d14	23.4		"	29.3		79.9	30.7-106				

Matrix Spike (BJ10192-MS2)	*Source sample: 2111449-03 (Matrix Spike)						Prepared: 10/05/2021 Analyzed: 10/06/2021				
1,2,4-Trichlorobenzene	17.1	5.41	ug/L	27.0	ND	63.3	31-92				
1,2-Dichlorobenzene	15.5	5.41	"	27.0	ND	57.4	31-91				
1,3-Dichlorobenzene	14.9	5.41	"	27.0	ND	55.2	24-93				
1,4-Dichlorobenzene	15.5	5.41	"	27.0	ND	57.3	26-95				
2,4,5-Trichlorophenol	21.0	5.41	"	27.0	ND	77.8	44-96				
2,4,6-Trichlorophenol	20.0	5.41	"	27.0	ND	73.9	39-107				
2,4-Dichlorophenol	19.4	5.41	"	27.0	ND	71.8	38-99				
2,4-Dimethylphenol	17.0	5.41	"	27.0	ND	62.9	10-116				
2,4-Dinitrophenol	12.9	5.41	"	27.0	ND	47.7	10-168				
2,4-Dinitrotoluene	22.9	5.41	"	27.0	ND	84.8	26-120				
2,6-Dinitrotoluene	22.3	5.41	"	27.0	ND	82.7	28-118				
2-Chloronaphthalene	17.4	5.41	"	27.0	ND	64.4	33-99				
2-Chlorophenol	16.1	5.41	"	27.0	ND	59.4	25-106				
2-Methylnaphthalene	18.8	5.41	"	27.0	ND	69.6	29-102				
2-Nitrophenol	22.4	5.41	"	27.0	ND	83.0	36-103				
3,3-Dichlorobenzidine	14.9	5.41	"	54.1	ND	27.6	10-140				
4,6-Dinitro-2-methylphenol	18.3	5.41	"	27.0	ND	67.9	10-142				
4-Bromophenyl phenyl ether	20.0	5.41	"	27.0	ND	74.0	35-109				
4-Chloro-3-methylphenol	21.3	5.41	"	27.0	ND	78.9	20-117				
4-Chlorophenyl phenyl ether	18.9	5.41	"	27.0	ND	69.9	31-112				
4-Nitrophenol	9.35	5.41	"	27.0	ND	34.6	10-119				
Acenaphthene	17.8	5.41	"	27.0	ND	65.8	17-132				
Acenaphthylene	18.0	5.41	"	27.0	ND	66.5	13-124				
Aniline	11.2	5.41	"	27.0	ND	41.3	10-133				
Anthracene	19.0	5.41	"	27.0	ND	70.2	40-105				
Benzo(a)anthracene	19.4	5.41	"	27.0	ND	72.0	23-141				
Benzo(a)pyrene	19.2	5.41	"	27.0	ND	70.9	46-118				
Benzo(b)fluoranthene	19.0	5.41	"	27.0	ND	70.2	22-133				
Benzo(g,h,i)perylene	20.0	5.41	"	27.0	ND	73.9	10-126				
Benzo(k)fluoranthene	18.4	5.41	"	27.0	ND	68.2	18-152				
Benzyl alcohol	12.8	5.41	"	27.0	ND	47.4	10-114				
Benzyl butyl phthalate	22.7	5.41	"	27.0	ND	83.9	31-121				
Bis(2-chloroethoxy)methane	16.6	5.41	"	27.0	ND	61.5	23-110				
Bis(2-chloroethyl)ether	15.8	5.41	"	27.0	ND	58.6	10-132				
Bis(2-chloroisopropyl)ether	13.9	5.41	"	27.0	ND	51.4	12-132				



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
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Batch BJ10192 - EPA 3510C

Matrix Spike (BJ10192-MS2)	*Source sample: 2111449-03 (Matrix Spike)						Prepared: 10/05/2021 Analyzed: 10/06/2021				
Bis(2-ethylhexyl)phthalate	22.6	5.41	ug/L	27.0	ND	83.8	14-131				
Chrysene	19.0	5.41	"	27.0	ND	70.2	30-127				
Dibenzo(a,h)anthracene	21.3	5.41	"	27.0	ND	78.8	10-131				
Diethyl phthalate	20.5	5.41	"	27.0	ND	75.8	41-106				
Dimethyl phthalate	19.5	5.41	"	27.0	ND	72.0	38-105				
Di-n-butyl phthalate	20.9	5.41	"	27.0	ND	77.4	24-121				
Di-n-octyl phthalate	22.7	5.41	"	27.0	ND	83.9	25-141				
Fluoranthene	19.6	5.41	"	27.0	ND	72.7	29-123				
Fluorene	18.8	5.41	"	27.0	ND	69.4	20-133				
Hexachlorobenzene	19.8	5.41	"	27.0	ND	73.3	24-120				
Hexachlorobutadiene	17.6	5.41	"	27.0	ND	65.2	26-98				
Hexachlorocyclopentadiene	11.9	5.41	"	27.0	ND	44.2	10-103				
Hexachloroethane	15.6	5.41	"	27.0	ND	57.7	11-102				
Indeno(1,2,3-cd)pyrene	19.5	5.41	"	27.0	ND	72.1	10-130				
Isophorone	19.3	5.41	"	27.0	ND	71.4	19-113				
Naphthalene	17.5	5.41	"	27.0	ND	64.9	26-104				
Nitrobenzene	19.0	5.41	"	27.0	ND	70.2	25-107				
N-Nitrosodimethylamine	5.91	5.41	"	27.0	ND	21.9	10-110				
N-nitroso-di-n-propylamine	17.5	5.41	"	27.0	ND	64.6	16-127				
N-Nitrosodiphenylamine	21.3	5.41	"	27.0	ND	78.8	46-116				
Pentachlorophenol	4.59	5.41	"	27.0	ND	17.0	10-181				
Phenanthrene	18.2	5.41	"	27.0	ND	67.3	29-121				
Phenol	6.88	5.41	"	27.0	ND	25.4	10-107				
Pyrene	20.1	5.41	"	27.0	ND	74.2	34-129				
Surrogate: SURR: 2-Fluorophenol	17.9		"	60.1		29.7	19.7-63.1				
Surrogate: SURR: Phenol-d5	10.6		"	60.1		17.7	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	20.2		"	30.1		67.2	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.3		"	30.1		60.9	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	50.7		"	60.1		84.3	39.3-151				
Surrogate: SURR: Terphenyl-d14	20.6		"	30.1		68.5	30.7-106				



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 BJ10192 - EPA 3510C												
Matrix Spike Dup (BJ10192-MSD1)		*Source sample: 2111393-02 (Matrix Spike Dup)					Prepared: 10/05/2021 Analyzed: 10/06/2021					
1,2,4-Trichlorobenzene	17.6	5.41	ug/L	27.0	ND	65.0	31-92		0.00649	20		
1,2-Dichlorobenzene	15.8	5.41	"	27.0	ND	58.5	31-91		0.904	20		
1,3-Dichlorobenzene	15.4	5.41	"	27.0	ND	57.1	24-93		2.04	20		
1,4-Dichlorobenzene	16.0	5.41	"	27.0	ND	59.2	26-95		2.33	20		
2,4,5-Trichlorophenol	22.2	5.41	"	27.0	ND	82.0	44-96		4.67	20		
2,4,6-Trichlorophenol	21.6	5.41	"	27.0	ND	79.8	39-107		2.56	20		
2,4-Dichlorophenol	20.6	5.41	"	27.0	ND	76.2	38-99		5.78	20		
2,4-Dimethylphenol	18.2	5.41	"	27.0	ND	67.2	10-116		2.44	20		
2,4-Dinitrophenol	21.7	5.41	"	27.0	ND	80.4	10-168		16.4	20		
2,4-Dinitrotoluene	22.3	5.41	"	27.0	ND	82.7	26-120		4.97	20		
2,6-Dinitrotoluene	22.1	5.41	"	27.0	ND	81.8	28-118		3.45	20		
2-Chloronaphthalene	17.9	5.41	"	27.0	ND	66.2	33-99		0.398	20		
2-Chlorophenol	16.4	5.41	"	27.0	ND	60.6	25-106		2.93	20		
2-Methylnaphthalene	19.3	5.41	"	27.0	ND	71.4	29-102		3.20	20		
2-Nitrophenol	22.5	5.41	"	27.0	ND	83.3	36-103		0.388	20		
3,3-Dichlorobenzidine	ND	5.41	"	54.1	ND		10-140	Low Bias		20		
4,6-Dinitro-2-methylphenol	24.1	5.41	"	27.0	ND	89.0	10-142		11.0	20		
4-Bromophenyl phenyl ether	20.1	5.41	"	27.0	ND	74.2	35-109		7.22	20		
4-Chloro-3-methylphenol	22.0	5.41	"	27.0	ND	81.5	20-117		4.71	20		
4-Chlorophenyl phenyl ether	19.2	5.41	"	27.0	ND	71.0	31-112		4.51	20		
4-Nitrophenol	11.4	5.41	"	27.0	ND	42.1	10-119		2.70	20		
Acenaphthene	18.7	5.41	"	27.0	ND	69.2	17-132		4.37	20		
Acenaphthylene	18.0	5.41	"	27.0	ND	66.7	13-124		4.23	20		
Aniline	11.1	5.41	"	27.0	ND	41.2	10-133		0.584	20		
Anthracene	19.9	5.41	"	27.0	ND	73.6	40-105		2.94	20		
Benzo(a)anthracene	20.2	5.41	"	27.0	ND	74.6	23-141		4.47	20		
Benzo(a)pyrene	19.7	5.41	"	27.0	ND	73.0	46-118		1.52	20		
Benzo(b)fluoranthene	19.5	5.41	"	27.0	ND	72.1	22-133		2.10	20		
Benzo(g,h,i)perylene	20.3	5.41	"	27.0	ND	75.2	10-126		3.82	20		
Benzo(k)fluoranthene	19.1	5.41	"	27.0	ND	70.6	18-152		2.31	20		
Benzyl alcohol	13.4	5.41	"	27.0	ND	49.7	10-114		3.19	20		
Benzyl butyl phthalate	23.5	5.41	"	27.0	ND	87.1	31-121		7.78	20		
Bis(2-chloroethoxy)methane	16.4	5.41	"	27.0	ND	60.8	23-110		3.52	20		
Bis(2-chloroethyl)ether	16.2	5.41	"	27.0	ND	59.8	10-132		3.74	20		
Bis(2-chloroisopropyl)ether	13.8	5.41	"	27.0	ND	51.2	12-132		3.54	20		
Bis(2-ethylhexyl)phthalate	23.4	5.41	"	27.0	ND	86.4	14-131		7.74	20		
Chrysene	19.7	5.41	"	27.0	ND	72.8	30-127		4.74	20		
Dibenzo(a,h)anthracene	21.6	5.41	"	27.0	ND	79.8	10-131		5.33	20		
Diethyl phthalate	20.3	5.41	"	27.0	ND	75.2	41-106		7.25	20		
Dimethyl phthalate	19.7	5.41	"	27.0	ND	73.0	38-105		5.48	20		
Di-n-butyl phthalate	21.3	5.41	"	27.0	ND	78.9	24-121		8.09	20		
Di-n-octyl phthalate	23.5	5.41	"	27.0	ND	86.9	25-141		6.31	20		
Fluoranthene	20.6	5.41	"	27.0	ND	76.4	29-123		4.46	20		
Fluorene	20.4	5.41	"	27.0	ND	75.4	20-133		4.30	20		
Hexachlorobenzene	19.8	5.41	"	27.0	ND	73.3	24-120		4.49	20		
Hexachlorobutadiene	18.1	5.41	"	27.0	ND	66.8	26-98		1.61	20		
Hexachlorocyclopentadiene	12.2	5.41	"	27.0	ND	45.2	10-103		2.51	20		
Hexachloroethane	17.1	5.41	"	27.0	ND	63.4	11-102		0.437	20		
Indeno(1,2,3-cd)pyrene	19.8	5.41	"	27.0	ND	73.4	10-130		3.77	20		
Isophorone	19.4	5.41	"	27.0	ND	71.9	19-113		4.78	20		
Naphthalene	17.8	5.41	"	27.0	ND	65.7	26-104		0.274	20		



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 BJ10192 - EPA 3510C											
Matrix Spike Dup (BJ10192-MSD1)		*Source sample: 2111393-02 (Matrix Spike Dup)					Prepared: 10/05/2021 Analyzed: 10/06/2021				
Nitrobenzene	19.0	5.41	ug/L	27.0	ND	70.3	25-107		1.35	20	
N-Nitrosodimethylamine	6.10	5.41	"	27.0	ND	22.6	10-110		0.989	20	
N-nitroso-di-n-propylamine	17.6	5.41	"	27.0	ND	65.0	16-127		3.59	20	
N-Nitrosodiphenylamine	22.8	5.41	"	27.0	ND	84.5	46-116		2.59	20	
Pentachlorophenol	15.6	5.41	"	27.0	ND	57.8	10-181		15.9	20	
Phenanthrene	20.8	5.41	"	27.0	2.11	69.3	29-121		3.37	20	
Phenol	8.27	5.41	"	27.0	ND	30.6	10-107		2.67	20	
Pyrene	21.2	5.41	"	27.0	ND	78.3	34-129		6.69	20	
Surrogate: SURR: 2-Fluorophenol	18.2		"	60.1		30.3	19.7-63.1				
Surrogate: SURR: Phenol-d5	10.9		"	60.1		18.1	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	20.6		"	30.1		68.6	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	18.7		"	30.1		62.3	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	57.8		"	60.1		96.2	39.3-151				
Surrogate: SURR: Terphenyl-d14	21.3		"	30.1		70.9	30.7-106				
Matrix Spike Dup (BJ10192-MSD2)		*Source sample: 2111449-03 (Matrix Spike Dup)					Prepared: 10/05/2021 Analyzed: 10/06/2021				
1,2,4-Trichlorobenzene	19.2	5.56	ug/L	27.8	ND	69.2	31-92		11.7	20	
1,2-Dichlorobenzene	17.8	5.56	"	27.8	ND	64.0	31-91		13.5	20	
1,3-Dichlorobenzene	17.4	5.56	"	27.8	ND	62.7	24-93		15.6	20	
1,4-Dichlorobenzene	18.1	5.56	"	27.8	ND	65.0	26-95		15.4	20	
2,4,5-Trichlorophenol	23.6	5.56	"	27.8	ND	85.0	44-96		11.5	20	
2,4,6-Trichlorophenol	23.0	5.56	"	27.8	ND	82.8	39-107		14.0	20	
2,4-Dichlorophenol	22.2	5.56	"	27.8	ND	79.8	38-99		13.3	20	
2,4-Dimethylphenol	18.5	5.56	"	27.8	ND	66.6	10-116		8.48	20	
2,4-Dinitrophenol	15.7	5.56	"	27.8	ND	56.6	10-168		19.7	20	
2,4-Dinitrotoluene	25.1	5.56	"	27.8	ND	90.3	26-120		9.04	20	
2,6-Dinitrotoluene	24.9	5.56	"	27.8	ND	89.8	28-118		10.9	20	
2-Chloronaphthalene	19.4	5.56	"	27.8	ND	69.8	33-99		10.8	20	
2-Chlorophenol	17.7	5.56	"	27.8	ND	63.6	25-106		9.56	20	
2-Methylnaphthalene	21.5	5.56	"	27.8	ND	77.2	29-102		13.1	20	
2-Nitrophenol	24.5	5.56	"	27.8	ND	88.1	36-103		8.72	20	
3,3-Dichlorobenzidine	16.7	5.56	"	55.6	ND	30.1	10-140		11.5	20	
4,6-Dinitro-2-methylphenol	23.1	5.56	"	27.8	ND	83.3	10-142		23.1	20	Non-dir.
4-Bromophenyl phenyl ether	22.9	5.56	"	27.8	ND	82.5	35-109		13.7	20	
4-Chloro-3-methylphenol	24.6	5.56	"	27.8	ND	88.6	20-117		14.3	20	
4-Chlorophenyl phenyl ether	21.6	5.56	"	27.8	ND	77.7	31-112		13.3	20	
4-Nitrophenol	11.2	5.56	"	27.8	ND	40.5	10-119		18.4	20	
Acenaphthene	20.0	5.56	"	27.8	ND	72.0	17-132		11.8	20	
Acenaphthylene	20.3	5.56	"	27.8	ND	73.0	13-124		12.0	20	
Aniline	12.4	5.56	"	27.8	ND	44.7	10-133		10.6	20	
Anthracene	21.8	5.56	"	27.8	ND	78.4	40-105		13.7	20	
Benzo(a)anthracene	22.3	5.56	"	27.8	ND	80.1	23-141		13.5	20	
Benzo(a)pyrene	22.2	5.56	"	27.8	ND	79.8	46-118		14.5	20	
Benzo(b)fluoranthene	21.8	5.56	"	27.8	ND	78.4	22-133		13.8	20	
Benzo(g,h,i)perylene	22.8	5.56	"	27.8	ND	81.9	10-126		13.1	20	
Benzo(k)fluoranthene	21.4	5.56	"	27.8	ND	77.2	18-152		15.2	20	
Benzyl alcohol	14.4	5.56	"	27.8	ND	52.0	10-114		11.9	20	
Benzyl butyl phthalate	25.1	5.56	"	27.8	ND	90.2	31-121		10.0	20	
Bis(2-chloroethoxy)methane	18.7	5.56	"	27.8	ND	67.2	23-110		11.6	20	
Bis(2-chloroethyl)ether	17.7	5.56	"	27.8	ND	63.6	10-132		10.9	20	
Bis(2-chloroisopropyl)ether	15.8	5.56	"	27.8	ND	57.0	12-132		13.0	20	



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 BJ10192 - EPA 3510C											
Matrix Spike Dup (BJ10192-MSD2)	*Source sample: 2111449-03 (Matrix Spike Dup)						Prepared: 10/05/2021 Analyzed: 10/06/2021				
Bis(2-ethylhexyl)phthalate	25.7	5.56	ug/L	27.8	ND	92.6	14-131		12.7	20	
Chrysene	21.6	5.56	"	27.8	ND	77.8	30-127		13.0	20	
Dibenzo(a,h)anthracene	23.9	5.56	"	27.8	ND	85.9	10-131		11.3	20	
Diethyl phthalate	22.8	5.56	"	27.8	ND	82.0	41-106		10.5	20	
Dimethyl phthalate	21.9	5.56	"	27.8	ND	78.8	38-105		11.8	20	
Di-n-butyl phthalate	23.6	5.56	"	27.8	ND	85.1	24-121		12.2	20	
Di-n-octyl phthalate	25.7	5.56	"	27.8	ND	92.6	25-141		12.6	20	
Fluoranthene	22.3	5.56	"	27.8	ND	80.3	29-123		12.7	20	
Fluorene	21.1	5.56	"	27.8	ND	75.9	20-133		11.7	20	
Hexachlorobenzene	22.6	5.56	"	27.8	ND	81.5	24-120		13.3	20	
Hexachlorobutadiene	20.0	5.56	"	27.8	ND	72.2	26-98		12.8	20	
Hexachlorocyclopentadiene	13.5	5.56	"	27.8	ND	48.5	10-103		12.1	20	
Hexachloroethane	18.2	5.56	"	27.8	ND	65.4	11-102		15.3	20	
Indeno(1,2,3-cd)pyrene	22.1	5.56	"	27.8	ND	79.4	10-130		12.4	20	
Isophorone	21.4	5.56	"	27.8	ND	77.0	19-113		10.2	20	
Naphthalene	19.6	5.56	"	27.8	ND	70.5	26-104		11.0	20	
Nitrobenzene	21.7	5.56	"	27.8	ND	78.2	25-107		13.5	20	
N-Nitrosodimethylamine	7.26	5.56	"	27.8	ND	26.1	10-110		20.4	20	Non-dir.
N-nitroso-di-n-propylamine	19.9	5.56	"	27.8	ND	71.6	16-127		12.9	20	
N-Nitrosodiphenylamine	24.9	5.56	"	27.8	ND	89.7	46-116		15.7	20	
Pentachlorophenol	7.51	5.56	"	27.8	ND	27.0	10-181		48.2	20	Non-dir.
Phenanthrene	20.8	5.56	"	27.8	ND	74.8	29-121		13.3	20	
Phenol	8.30	5.56	"	27.8	ND	29.9	10-107		18.8	20	
Pyrene	22.9	5.56	"	27.8	ND	82.3	34-129		13.1	20	
Surrogate: SURR: 2-Fluorophenol	20.7		"	61.8		33.5	19.7-63.1				
Surrogate: SURR: Phenol-d5	12.5		"	61.8		20.2	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	22.7		"	30.9		73.6	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	20.5		"	30.9		66.3	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	59.8		"	61.8		96.7	39.3-151				
Surrogate: SURR: Terphenyl-d14	23.5		"	30.9		76.1	30.7-106				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10265 - EPA SW846-3510C Low Level

Blank (BJ10265-BLK1)

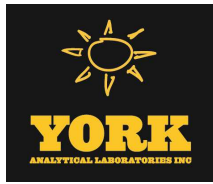
Prepared: 10/06/2021 Analyzed: 10/07/2021

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
<hr/>											
Surrogate: Tetrachloro-m-xylene	0.161		"	0.200		80.5	30-120				
Surrogate: Decachlorobiphenyl	0.0972		"	0.200		48.6	30-120				

LCS (BJ10265-BS1)

Prepared: 10/06/2021 Analyzed: 10/07/2021

4,4'-DDD	0.133	0.00400	ug/L	0.100		133	40-120	High Bias			
4,4'-DDE	0.115	0.00400	"	0.100		115	40-120				
4,4'-DDT	0.0883	0.00400	"	0.100		88.3	40-120				
Aldrin	0.0846	0.00400	"	0.100		84.6	40-120				
alpha-BHC	0.109	0.00400	"	0.100		109	40-120				
beta-BHC	0.116	0.00400	"	0.100		116	40-120				
delta-BHC	0.110	0.00400	"	0.100		110	40-120				
Dieldrin	0.121	0.00200	"	0.100		121	40-120	High Bias			
Endosulfan I	0.102	0.00400	"	0.100		102	40-120				
Endosulfan II	0.120	0.00400	"	0.100		120	40-120				
Endosulfan sulfate	0.103	0.00400	"	0.100		103	40-120				
Endrin	0.123	0.00400	"	0.100		123	40-120	High Bias			
Endrin aldehyde	0.0977	0.0100	"	0.100		97.7	40-120				
Endrin ketone	0.139	0.0100	"	0.100		139	40-120	High Bias			
gamma-BHC (Lindane)	0.102	0.00400	"	0.100		102	40-120				
Heptachlor	0.100	0.00400	"	0.100		100	40-120				
Heptachlor epoxide	0.117	0.00400	"	0.100		117	40-120				
Methoxychlor	0.0949	0.00400	"	0.100		94.9	40-120				
<hr/>											
Surrogate: Tetrachloro-m-xylene	0.159		"	0.200		79.5	30-120				
Surrogate: Decachlorobiphenyl	0.129		"	0.200		64.7	30-120				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

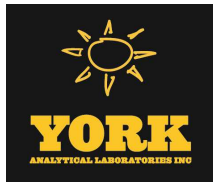
Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			

Batch Y1H2403 - BH10632

Performance Mix (Y1H2403-PEM1)

Prepared & Analyzed: 08/23/2021

4,4'-DDD	7.48		ng/mL	0.00				0-200			
4,4'-DDE	1.56		"	0.00				0-200			
4,4'-DDT	251		"	200		126		0-200			
Endrin	128		"	100		128		0-200			
Endrin aldehyde	1.65		"	0.00				0-200			
Endrin ketone	3.42		"	0.00				0-200			



Polychlorinated Biphenyls by GC/ECD - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10232 - EPA SW846-3510C Low Level

Blank (BJ10232-BLK2)

Prepared: 10/05/2021 Analyzed: 10/06/2021

Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.166</i>		<i>"</i>	<i>0.200</i>		<i>83.0</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.120</i>		<i>"</i>	<i>0.200</i>		<i>60.0</i>	<i>30-120</i>				

LCS (BJ10232-BS2)

Prepared: 10/05/2021 Analyzed: 10/06/2021

Aroclor 1016	0.958	0.0500	ug/L	1.00		95.8	40-120				
Aroclor 1260	0.927	0.0500	"	1.00		92.7	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.141</i>		<i>"</i>	<i>0.200</i>		<i>70.5</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0810</i>		<i>"</i>	<i>0.200</i>		<i>40.5</i>	<i>30-120</i>				



Metals by ICP/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
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Batch BJ10508 - EPA 200.8

Blank (BJ10508-BLK1)

Prepared: 10/08/2021 Analyzed: 10/11/2021

Arsenic	ND	1.00	ug/L								
Barium	ND	1.00	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Copper	ND	1.00	"								
Lead	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Zinc	2.96	1.00	"								

LCS (BJ10508-BS1)

Prepared: 10/08/2021 Analyzed: 10/11/2021

Arsenic	60.6		ug/L	50.0		121	80-120	High Bias			
Barium	48.7		"	50.0		97.5	80-120				
Cadmium	42.4		"	50.0		84.7	80-120				
Chromium	39.8		"	50.0		79.6	80-120	Low Bias			
Copper	44.6		"	50.0		89.1	80-120				
Lead	59.7		"	50.0		119	80-120				
Nickel	42.9		"	50.0		85.8	90-110	Low Bias			
Selenium	74.4		"	50.0		149	90-110	High Bias			
Silver	49.7		"	50.0		99.4	90-110				
Zinc	62.3		"	50.0		125	90-110	High Bias			

Duplicate (BJ10508-DUP1)

*Source sample: 21J0344-01 (Duplicate)

Prepared: 10/08/2021 Analyzed: 10/11/2021

Arsenic	1.55	1.00	ug/L		1.48				4.80	20	
Barium	11.0	1.00	"		11.3				2.49	20	
Cadmium	214	0.500	"		213				0.299	20	
Chromium	9.23	1.00	"		9.19				0.432	20	
Copper	63.9	1.00	"		63.9				0.0726	20	
Lead	1.08	1.00	"		0.944				13.3	20	
Nickel	24.8	1.00	"		24.4				1.44	20	
Selenium	3.29	1.00	"		1.63				67.6	20	Non-dir.
Silver	0.530	1.00	"		0.417				23.9	20	Non-dir.
Zinc	62.8	1.00	"		46.5				29.9	20	Non-dir.



Metals by ICP/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
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Batch BJ10508 - EPA 200.8

Matrix Spike (BJ10508-MS1)	*Source sample: 21J0344-01 (Matrix Spike)						Prepared: 10/08/2021 Analyzed: 10/12/2021				
Arsenic	66.8		ug/L	50.0	1.48	131	75-125	High Bias			
Barium	62.7		"	50.0	11.3	103	75-125				
Cadmium	283		"	50.0	213	140	75-125	High Bias			
Chromium	55.6		"	50.0	9.19	92.8	75-125				
Copper	112		"	50.0	63.9	95.4	75-125				
Lead	55.1		"	50.0	0.944	108	75-125				
Nickel	70.2		"	50.0	24.4	91.6	75-125				
Selenium	76.3		"	50.0	1.63	149	75-125	High Bias			
Silver	45.5		"	50.0	0.417	90.1	75-125				
Zinc	102		"	50.0	46.5	111	75-125				



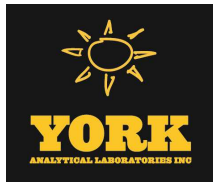
Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10177 - EPA 245.1 Mercury											
Blank (BJ10177-BLK1)											
Mercury	ND	0.0002000	mg/L								Prepared & Analyzed: 10/04/2021
LCS (BJ10177-BS1)											
Mercury	0.002085	0.0002000	mg/L	0.00200		104	75-125				Prepared & Analyzed: 10/04/2021
Duplicate (BJ10177-DUP1)											
	*Source sample: 21J0123-08 (Duplicate)										Prepared & Analyzed: 10/04/2021
Mercury	0.0003587	0.0002000	mg/L		0.0002936				20.0	20	
Matrix Spike (BJ10177-MS1)											
	*Source sample: 21J0123-08 (Matrix Spike)										Prepared & Analyzed: 10/04/2021
Mercury	0.002270	0.0002000	mg/L	0.00200	0.0002936	98.8	75-125				



Wet Chemistry Parameters - 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 BI11717 - Analysis Preparation											
Blank (BI11717-BLK1) Prepared & Analyzed: 09/30/2021											
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BI11717-BS1) Prepared & Analyzed: 09/30/2021											
Chromium, Hexavalent	0.490	0.0100	mg/L	0.500		98.0	80-120				
LCS (BI11717-BS2) Prepared & Analyzed: 09/30/2021											
Chromium, Hexavalent	0.507	0.0100	mg/L	0.500		101	80-120				
Duplicate (BI11717-DUP1) Prepared & Analyzed: 09/30/2021											
*Source sample: 21I1427-02 (EFFLUENT 9-30-21)											
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Batch BJ10132 - Analysis Preparation											
Blank (BJ10132-BLK1) Prepared & Analyzed: 10/04/2021											
Oil & Grease	ND	0.500	mg/L								
LCS (BJ10132-BS1) Prepared & Analyzed: 10/04/2021											
Oil & Grease	16.6	1.00	mg/L	16.0		104	78-114				
Batch BJ10153 - Analysis Preparation											
Duplicate (BJ10153-DUP1) Prepared & Analyzed: 10/04/2021											
*Source sample: 21J0036-09 (Duplicate)											
pH	8.09	0.500	pH units		8.06				0.372	10	
Batch BJ10198 - Analysis Preparation											
Blank (BJ10198-BLK1) Prepared & Analyzed: 10/05/2021											
Cyanide, total	ND	0.0100	mg/L								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10198 - Analysis Preparation

LCS (BJ10198-BS1)											
											Prepared & Analyzed: 10/05/2021
Cyanide, total	0.200	0.0100	mg/L	0.200		99.8	76.2-107				
Duplicate (BJ10198-DUP1)											
*Source sample: 2111393-02 (Duplicate)											Prepared & Analyzed: 10/05/2021
Cyanide, total	ND	0.0100	mg/L		ND						15
Matrix Spike (BJ10198-MS1)											
*Source sample: 2111393-02 (Matrix Spike)											Prepared & Analyzed: 10/05/2021
Cyanide, total	0.211	0.0100	mg/L	0.200	ND	106	79-105	High Bias			

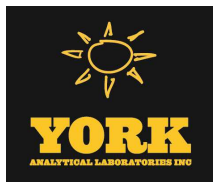
Batch BJ10211 - Analysis Preparation

Blank (BJ10211-BLK1)											
											Prepared & Analyzed: 10/05/2021
Phenols, total	ND	0.0500	mg/L								
LCS (BJ10211-BS1)											
											Prepared & Analyzed: 10/05/2021
Phenols, total	1.02	0.0500	mg/L	1.00		102	67-116				
Duplicate (BJ10211-DUP1)											
*Source sample: 2111306-01 (Duplicate)											Prepared & Analyzed: 10/05/2021
Phenols, total	ND	0.0500	mg/L		ND						15
Matrix Spike (BJ10211-MS1)											
*Source sample: 2111306-01 (Matrix Spike)											Prepared & Analyzed: 10/05/2021
Phenols, total	1.02	0.0500	mg/L	1.00	ND	102	64.9-118				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21I1427-01	INFLUENT 9-30-21	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21I1427-02	EFFLUENT 9-30-21	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21I1427-03	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

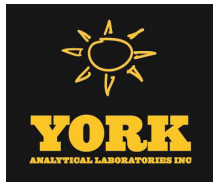


Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW -846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615

132-02 89th Ave Queens, NY 11418

clientservices@yorklab.com

www.yorklab.com

800-306-YORK

800-306-9675

Page of

YORK Project No.
2121427

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP	Address: 500 SUMMIT LAKE DR	Company: ← SANB	Address: ← SANB	Company: ← SANB	Address: ← SANB	3140 2220.02		RUSH - Next Day	
Address: VAHALLA, NT 10595	Phone: 914 461 2951	Address:	Phone:	Address:	Phone:	YOUR Project Name		RUSH - Two Day	
Company: JOHN.BENVEGNIA@WSP.COM	Contact: MICHAEL K. DEFRICE	Company:	Contact:	Company:	Contact:	WESTCHESTER COUNTY		RUSH - Three Day	
E-mail:	E-mail: M W / K Debr	E-mail:	E-mail:	E-mail:	E-mail:	REPORT (WCF)		RUSH - Four Day	
						YOUR PO#:		Standard (5-7 Day)	<input checked="" type="checkbox"/>

Please 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.

MICHAEL K. DEFRICE
M W / K Debr

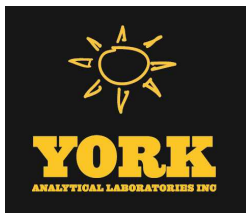
Samples Collected by: (print AND sign your name)

Sample Identification	Sample Matrix	Matrix Codes	Samples From	Report / EDD Type (circle selections)	Analysis Requested	Container Description
INFLEWENT 9/30/21	GW	S - soil / solid	New York	<input checked="" type="checkbox"/> Summary Report	CT RCP	YACINS
EFFLUENT 9/30/21	DF	GW - groundwater	New Jersey	<input type="checkbox"/> QA Report	CT RCP DQ/DUE	H/Low PH, ARSENIC, BARIUM, CADMIUM, COPPER, TOT. CHLORIDE, COPPER, TOT. CHLORIDE, G.P.P
TRIP BLANK		DW - drinking water	Connecticut	<input type="checkbox"/> NY ASP A Package	NUDEP Reduced	LEAD, Hg, Nickel, OIL & GREASE, PHENOLS, SELENIUM, SILVER, TOT. TOXIC ORGANICS, ZINC.
		WW - wastewater	Pennsylvania	<input type="checkbox"/> NY ASP B Package	Deliverables	
		O - Oil	Other:		NUDEP SRP HazSite	
					NUDKQP	
					Other:	

Comments:	Samples Iced/chilled at time of lab pickup? circle Yes or No		Preservation: (check all that apply)		Special Instruction	
			HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/>	ZnAc	Ascorbic Acid	Field Filtered
	1. Samples Relinquished by / Company		Date/Time		Lab to Filter	
	2. Samples Relinquished by / Company		Date/Time		Date/Time	
3. Samples Relinquished by / Company		Date/Time		Date/Time		
4. Samples Relinquished by / Company		Date/Time		Date/Time		

Chick York 9-30-21 13:45
Chick York 9-30-21 1514
Chick York 9-30-21 1514

Temperature 5.7 Degrees C



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 12/27/2021
Client Project ID: 31402220.02 Westchester County Airport (WC4)
York Project (SDG) No.: 21L0936

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/27/2021
Client Project ID: 31402220.02 Westchester County Airport (WC4)
York Project (SDG) No.: 21L0936

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 16, 2021 and listed below. The project was identified as your project: **31402220.02 Westchester County Airport (WC4)**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21L0936-01	INFLUENT 12/16/21	Waste Water	12/16/2021	12/16/2021
21L0936-02	EFFLUENT 12/16/21	Waste Water	12/16/2021	12/16/2021
21L0936-03	FIELD DUP 12/16/2021	Waste Water	12/16/2021	12/16/2021
21L0936-04	FIELD BLANK 12/16/2021	Waste Water	12/16/2021	12/16/2021

General Notes for York Project (SDG) No.: 21L0936

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/27/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: INFLUENT 12/16/21

York Sample ID: 21L0936-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21L0936	31402220.02 Westchester County Airport (WC4)	Waste Water	December 16, 2021 12:40 pm	12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	221		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1050		ng/L	62.5	5	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:04	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	9.54		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	6.26		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	24.3		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	78.9		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	340		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	71.2		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
375-95-1	* Perfluorononanoic acid (PFNA)	20.8		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	195		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	35.7		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	106		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	5.00	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 18:52	WL



Sample Information

Client Sample ID: INFLUENT 12/16/21

York Sample ID: 21L0936-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0936	31402220.02 Westchester County Airport (WC4)	Waste Water	December 16, 2021 12:40 pm	12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	101 %		25-150						
	Surrogate: M5PFHxA	77.1 %		25-150						
	Surrogate: M4PFHpA	102 %		25-150						
	Surrogate: M3PFHxS	104 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	100 %		25-150						
	Surrogate: M6PFDA	98.3 %		25-150						
	Surrogate: M7PFUdA	98.5 %		25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	109 %		25-150						
	Surrogate: M2PFTeDA	87.3 %		10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	87.2 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	94.3 %		25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	89.3 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	29.4 %		10-150						
	Surrogate: d3-N-MeFOSAA	67.5 %		25-150						
	Surrogate: d5-N-EtFOSAA	78.8 %		25-150						
	Surrogate: M2-6:2 FTS	247 %	PFSu-H	25-200						
	Surrogate: M2-6:2 FTS	122 %		25-200						
	Surrogate: M2-8:2 FTS	54.6 %		25-200						
	Surrogate: M9PFNA	87.0 %		25-150						

Sample Information

Client Sample ID: EFFLUENT 12/16/21

York Sample ID: 21L0936-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0936	31402220.02 Westchester County Airport (WC4)	Waste Water	December 16, 2021 12:30 pm	12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL



Sample Information

Client Sample ID: EFFLUENT 12/16/21

York Sample ID: 21L0936-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0936

31402220.02 Westchester County Airport (WC4)

Waste Water

December 16, 2021 12:30 pm

12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.81	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.96		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 19:29	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	115 %	25-150
Surrogate: M5PFHxA	99.7 %	25-150
Surrogate: M4PFHpA	110 %	25-150
Surrogate: M3PFHxS	101 %	25-150



Sample Information

Client Sample ID: EFFLUENT 12/16/21

York Sample ID: 21L0936-02

<u>York Project (SDG) No.</u> 21L0936	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WC4)	<u>Matrix</u> Waste Water	<u>Collection Date/Time</u> December 16, 2021 12:30 pm	<u>Date Received</u> 12/16/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	113 %			25-150					
	Surrogate: M6PFDA	109 %			25-150					
	Surrogate: M7PFUdA	104 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	106 %			25-150					
	Surrogate: M2PFTeDA	84.0 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	98.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	93.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	103 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	24.6 %			10-150					
	Surrogate: d3-N-MeFOSAA	93.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	77.3 %			25-150					
	Surrogate: M2-6:2 FTS	108 %			25-200					
	Surrogate: M2-8:2 FTS	93.3 %			25-200					
	Surrogate: M9PFNA	97.6 %			25-150					

Sample Information

Client Sample ID: FIELD DUP 12/16/2021

York Sample ID: 21L0936-03

<u>York Project (SDG) No.</u> 21L0936	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WC4)	<u>Matrix</u> Waste Water	<u>Collection Date/Time</u> December 16, 2021 1:25 pm	<u>Date Received</u> 12/16/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL



Sample Information

Client Sample ID: FIELD DUP 12/16/2021

York Sample ID: 21L0936-03

<u>York Project (SDG) No.</u> 21L0936	<u>Client Project ID</u> 31402220.02 Westchester County Airport (WC4)	<u>Matrix</u> Waste Water	<u>Collection Date/Time</u> December 16, 2021 1:25 pm	<u>Date Received</u> 12/16/2021
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.94		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.79	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:05	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	102 %	25-150
Surrogate: M5PFHxA	93.0 %	25-150
Surrogate: M4PFHpA	111 %	25-150
Surrogate: M3PFHxS	103 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	108 %	25-150
Surrogate: M6PFDA	97.1 %	25-150
Surrogate: M7PFUDA	93.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	113 %	25-150
Surrogate: M2PFTeDA	93.1 %	10-150



Sample Information

Client Sample ID: FIELD DUP 12/16/2021

York Sample ID: 21L0936-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0936	31402220.02 Westchester County Airport (WC4)	Waste Water	December 16, 2021 1:25 pm	12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	93.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	98.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	95.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	12.0 %			10-150					
	Surrogate: d3-N-MeFOSAA	96.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	75.7 %			25-150					
	Surrogate: M2-6:2 FTS	94.4 %			25-200					
	Surrogate: M2-8:2 FTS	61.7 %			25-200					
	Surrogate: M9PFNA	91.1 %			25-150					

Sample Information

Client Sample ID: FIELD BLANK 12/16/2021

York Sample ID: 21L0936-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0936	31402220.02 Westchester County Airport (WC4)	Waste Water	December 16, 2021 12:50 pm	12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.81	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL



Sample Information

Client Sample ID: FIELD BLANK 12/16/2021

York Sample ID: 21L0936-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0936

31402220.02 Westchester County Airport (WC4)

Waste Water

December 16, 2021 12:50 pm

12/16/2021

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.92	1	EPA 537m Certifications:	12/21/2021 12:15	12/23/2021 20:18	WL

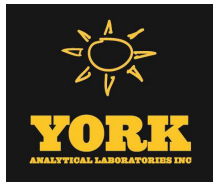
Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	110 %	25-150
Surrogate: M5PFHxA	96.7 %	25-150
Surrogate: M4PFHpA	108 %	25-150
Surrogate: M3PFHxS	95.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	103 %	25-150
Surrogate: M6PFDA	97.7 %	25-150
Surrogate: M7PFUdA	105 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	110 %	25-150
Surrogate: M2PFTeDA	77.5 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	99.2 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	100 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	66.9 %	10-150
Surrogate: d3-N-MeFOSAA	110 %	25-150





Sample Information

Client Sample ID: FIELD BLANK 12/16/2021

York Sample ID: 21L0936-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0936

31402220.02 Westchester County Airport (WC4)

Waste Water

December 16, 2021 12:50 pm

12/16/2021

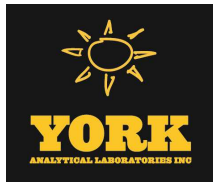
PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d5-N-EtFOSAA	78.6 %			25-150					
	Surrogate: M2-6:2 FTS	95.3 %			25-200					
	Surrogate: M2-8:2 FTS	105 %			25-200					
	Surrogate: M9PFNA	112 %			25-150					



Analytical Batch Summary

Batch ID: BL12556

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
21L0936-01	INFLUENT 12/16/21	12/21/21
21L0936-01RE1	INFLUENT 12/16/21	12/21/21
21L0936-02	EFFLUENT 12/16/21	12/21/21
21L0936-03	FIELD DUP 12/16/2021	12/21/21
21L0936-04	FIELD BLANK 12/16/2021	12/21/21
BL12556-BLK1	Blank	12/21/21
BL12556-BS1	LCS	12/21/21
BL12556-MS1	Matrix Spike	12/21/21
BL12556-MS2	Matrix Spike	12/21/21
BL12556-MSD1	Matrix Spike Dup	12/21/21
BL12556-MSD2	Matrix Spike Dup	12/21/21



PFAS Target compounds by LC/MS-MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit			Result	Limits	Limit					

Batch BL12556 - SPE Ext-PFAS-EPA 537.1M

Blank (BL12556-BLK1)

Prepared: 12/21/2021 Analyzed: 12/23/2021

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L									
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"									
N-EtFOSAA	ND	2.00	"									
N-MeFOSAA	ND	2.00	"									
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"									
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"									
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"									
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"									
Perfluorodecanoic acid (PFDA)	ND	2.00	"									
Perfluorododecanoic acid (PFDoA)	ND	2.00	"									
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"									
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"									
Perfluorohexanoic acid (PFHxA)	ND	2.00	"									
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"									
Perfluorononanoic acid (PFNA)	ND	2.00	"									
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"									
Perfluorooctanoic acid (PFOA)	ND	2.00	"									
Perfluoropentanoic acid (PFPeA)	ND	2.00	"									
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"									
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"									
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"									
Surrogate: M3PFBS	68.9		"	74.3		92.8	25-150					
Surrogate: M5PFHxA	65.1		"	80.0		81.4	25-150					
Surrogate: M4PFHpA	80.3		"	80.0		100	25-150					
Surrogate: M3PFHxS	68.2		"	75.7		90.1	25-150					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	68.5		"	80.0		85.6	25-150					
Surrogate: M6PFDA	64.8		"	80.0		81.1	25-150					
Surrogate: M7PFUdA	66.7		"	80.0		83.4	25-150					
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	70.7		"	80.0		88.3	25-150					
Surrogate: M2PFTeDA	53.4		"	80.0		66.7	10-150					
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	64.9		"	80.0		81.1	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	70.1		"	76.6		91.6	25-150					
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	68.6		"	80.0		85.7	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	47.1		"	80.0		58.9	10-150					
Surrogate: d3-N-MeFOSAA	54.2		"	80.0		67.7	25-150					
Surrogate: d5-N-EtFOSAA	58.8		"	80.0		73.5	25-150					
Surrogate: M2-6:2 FTS	52.0		"	75.9		68.6	25-200					
Surrogate: M2-8:2 FTS	60.8		"	76.6		79.4	25-200					
Surrogate: M9PFNA	66.9		"	80.0		83.7	25-150					



PFAS Target compounds by LC/MS-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
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Batch BL12556 - SPE Ext-PFAS-EPA 537.1M

LCS (BL12556-BS1)

Prepared: 12/21/2021 Analyzed: 12/23/2021

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	81.8	2.00	ng/L	76.8		107	50-175				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	83.9	5.00	"	76.0		110	50-175				
N-EtFOSAA	64.8	2.00	"	80.0		81.0	50-130				
N-MeFOSAA	84.5	2.00	"	80.0		106	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	81.9	2.00	"	77.2		106	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	81.6	2.00	"	76.4		107	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	74.2	2.00	"	80.0		92.7	50-130				
Perfluorobutanesulfonic acid (PFBS)	71.4	2.00	"	70.8		101	50-130				
Perfluorodecanoic acid (PFDA)	71.1	2.00	"	80.0		88.8	50-130				
Perfluorododecanoic acid (PFDoA)	74.7	2.00	"	80.0		93.3	50-130				
Perfluoroheptanoic acid (PFHpA)	67.3	2.00	"	80.0		84.2	50-130				
Perfluorohexanesulfonic acid (PFHxS)	73.0	2.00	"	72.8		100	50-130				
Perfluorohexanoic acid (PFHxA)	80.1	2.00	"	80.0		100	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.3	2.00	"	80.0		97.9	50-130				
Perfluorononanoic acid (PFNA)	75.2	2.00	"	80.0		94.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	72.6	2.00	"	74.0		98.1	50-130				
Perfluorooctanoic acid (PFOA)	70.7	2.00	"	80.0		88.4	50-130				
Perfluoropentanoic acid (PFPeA)	75.5	2.00	"	80.0		94.4	50-130				
Perfluorotetradecanoic acid (PFTA)	73.0	2.00	"	80.0		91.3	50-130				
Perfluorotridecanoic acid (PFTrDA)	60.6	2.00	"	80.0		75.7	50-130				
Perfluoroundecanoic acid (PFUnA)	82.0	2.00	"	80.0		103	50-130				
Surrogate: M3PFBS	70.6		"	74.3		95.1	25-150				
Surrogate: M5PFHxA	70.9		"	80.0		88.6	25-150				
Surrogate: M4PFHpA	82.7		"	80.0		103	25-150				
Surrogate: M3PFHxS	70.2		"	75.7		92.7	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	82.9		"	80.0		104	25-150				
Surrogate: M6PFDA	85.5		"	80.0		107	25-150				
Surrogate: M7PFUdA	82.7		"	80.0		103	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	82.2		"	80.0		103	25-150				
Surrogate: M2PFTeDA	87.3		"	80.0		109	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	71.6		"	80.0		89.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	68.1		"	76.6		88.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	74.6		"	80.0		93.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.3		"	80.0		60.4	10-150				
Surrogate: d3-N-MeFOSAA	75.0		"	80.0		93.7	25-150				
Surrogate: d5-N-EtFOSAA	96.9		"	80.0		121	25-150				
Surrogate: M2-6:2 FTS	67.3		"	75.9		88.6	25-200				
Surrogate: M2-8:2 FTS	78.4		"	76.6		102	25-200				
Surrogate: M9PFNA	72.3		"	80.0		90.3	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL12556 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BL12556-MS1)	*Source sample: 21L0911-02 (Matrix Spike)							Prepared: 12/21/2021 Analyzed: 12/23/2021			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	1.79	ng/L	68.6	ND	89.6	25-200				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	69.3	4.46	"	67.9	ND	102	25-200				
N-EtFOSAA	78.1	1.79	"	71.4	ND	109	25-150				
N-MeFOSAA	86.7	1.79	"	71.4	ND	121	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	58.7	1.79	"	68.9	ND	85.1	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	86.2	1.79	"	68.2	ND	126	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	64.6	1.79	"	71.4	0.641	89.5	25-150				
Perfluorobutanesulfonic acid (PFBS)	72.8	1.79	"	63.2	9.74	99.8	25-150				
Perfluorodecanoic acid (PFDA)	71.8	1.79	"	71.4	ND	100	25-150				
Perfluorododecanoic acid (PFDoA)	69.8	1.79	"	71.4	ND	97.8	25-150				
Perfluoroheptanoic acid (PFHpA)	95.9	1.79	"	71.4	8.88	122	25-150				
Perfluorohexanesulfonic acid (PFHxS)	68.8	1.79	"	65.0	13.0	85.9	25-150				
Perfluorohexanoic acid (PFHxA)	84.6	1.79	"	71.4	10.2	104	25-150				
Perfluoro-n-butanoic acid (PFBA)	76.7	1.79	"	71.4	8.91	94.9	25-150				
Perfluorononanoic acid (PFNA)	62.4	1.79	"	71.4	1.78	84.9	25-150				
Perfluorooctanesulfonic acid (PFOS)	81.8	1.79	"	66.1	13.9	103	25-150				
Perfluorooctanoic acid (PFOA)	127	1.79	"	71.4	63.9	88.9	25-150				
Perfluoropentanoic acid (PFPeA)	73.9	1.79	"	71.4	8.99	90.8	25-150				
Perfluorotetradecanoic acid (PFTA)	78.4	1.79	"	71.4	ND	110	25-150				
Perfluorotridecanoic acid (PFTrDA)	64.1	1.79	"	71.4	ND	89.7	25-150				
Perfluoroundecanoic acid (PFUnA)	80.8	1.79	"	71.4	ND	113	25-150				
Surrogate: M3PFBS	57.5		"	66.4		86.7	25-150				
Surrogate: M5PFHxA	58.0		"	71.4		81.2	25-150				
Surrogate: M4PFHpA	51.8		"	71.4		72.6	25-150				
Surrogate: M3PFHxS	74.7		"	67.6		111	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	75.9		"	71.4		106	25-150				
Surrogate: M6PFDA	62.1		"	71.4		86.9	25-150				
Surrogate: M7PFUdA	58.0		"	71.4		81.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	67.6		"	71.4		94.6	25-150				
Surrogate: M2PFTeDA	55.0		"	71.4		77.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	49.2		"	71.4		68.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	68.6		"	68.4		100	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	52.8		"	71.4		73.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.94		"	71.4		5.52	10-150				
Surrogate: d3-N-MeFOSAA	52.4		"	71.4		73.4	25-150				
Surrogate: d5-N-EtFOSAA	55.0		"	71.4		77.0	25-150				
Surrogate: M2-6:2 FTS	54.4		"	67.8		80.3	25-200				
Surrogate: M2-8:2 FTS	69.0		"	68.4		101	25-200				
Surrogate: M9PFNA	70.5		"	71.4		98.7	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL12556 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BL12556-MS2)	*Source sample: 21L0936-02 (EFFLUENT 12/16/21)						Prepared: 12/21/2021 Analyzed: 12/23/2021				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	82.3	1.85	ng/L	71.1	0.730	115	25-200				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	78.1	4.63	"	70.4	2.21	108	25-200				
N-EtFOSAA	78.3	1.85	"	74.1	ND	106	25-150				
N-MeFOSAA	74.7	1.85	"	74.1	ND	101	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	59.1	1.85	"	71.5	ND	82.7	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	83.1	1.85	"	70.7	ND	117	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	72.1	1.85	"	74.1	ND	97.4	25-150				
Perfluorobutanesulfonic acid (PFBS)	60.6	1.85	"	65.6	ND	92.5	25-150				
Perfluorodecanoic acid (PFDA)	71.6	1.85	"	74.1	ND	96.6	25-150				
Perfluorododecanoic acid (PFDoA)	69.4	1.85	"	74.1	ND	93.7	25-150				
Perfluoroheptanoic acid (PFHpA)	64.7	1.85	"	74.1	ND	87.4	25-150				
Perfluorohexanesulfonic acid (PFHxS)	65.4	1.85	"	67.4	ND	97.0	25-150				
Perfluorohexanoic acid (PFHxA)	78.6	1.85	"	74.1	2.96	102	25-150				
Perfluoro-n-butanoic acid (PFBA)	74.7	1.85	"	74.1	ND	101	25-150				
Perfluorononanoic acid (PFNA)	80.8	1.85	"	74.1	ND	109	25-150				
Perfluorooctanesulfonic acid (PFOS)	62.7	1.85	"	68.5	ND	91.5	25-150				
Perfluorooctanoic acid (PFOA)	72.1	1.85	"	74.1	ND	97.3	25-150				
Perfluoropentanoic acid (PFPeA)	71.8	1.85	"	74.1	0.815	95.9	25-150				
Perfluorotetradecanoic acid (PFTA)	73.7	1.85	"	74.1	ND	99.6	25-150				
Perfluorotridecanoic acid (PFTrDA)	60.3	1.85	"	74.1	ND	81.4	25-150				
Perfluoroundecanoic acid (PFUnA)	80.2	1.85	"	74.1	ND	108	25-150				
Surrogate: M3PFBS	68.5		"	68.8		99.6	25-150				
Surrogate: M5PFHxA	60.9		"	74.1		82.3	25-150				
Surrogate: M4PFHpA	72.7		"	74.1		98.2	25-150				
Surrogate: M3PFHxS	64.2		"	70.1		91.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	63.8		"	74.1		86.2	25-150				
Surrogate: M6PFDA	59.5		"	74.1		80.3	25-150				
Surrogate: M7PFUdA	55.2		"	74.1		74.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	64.4		"	74.1		86.9	25-150				
Surrogate: M2PFTeDA	53.6		"	74.1		72.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	63.5		"	74.1		85.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.2		"	70.9		92.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	63.6		"	74.1		85.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	34.3		"	74.1		46.3	10-150				
Surrogate: d3-N-MeFOSAA	50.6		"	74.1		68.4	25-150				
Surrogate: d5-N-EtFOSAA	46.5		"	74.1		62.8	25-150				
Surrogate: M2-6:2 FTS	61.3		"	70.3		87.2	25-200				
Surrogate: M2-8:2 FTS	54.1		"	71.0		76.3	25-200				
Surrogate: M9PFNA	55.9		"	74.1		75.4	25-150				



PFAS Target compounds by LC/MS-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
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Batch BL12556 - SPE Ext-PFAS-EPA 537.1M

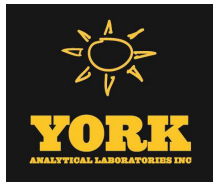
Matrix Spike Dup (BL12556-MSD1)	*Source sample: 21L0911-02 (Matrix Spike Dup)						Prepared: 12/21/2021 Analyzed: 12/23/2021				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	84.0	1.79	ng/L	68.6	ND	122	25-200		31.0	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	68.4	4.46	"	67.9	ND	101	25-200		1.33	35	
N-EtFOSAA	67.2	1.79	"	71.4	ND	94.0	25-150		15.0	35	
N-MeFOSAA	83.4	1.79	"	71.4	ND	117	25-150		3.90	35	
Perfluoro-1-decanesulfonic acid (PFDS)	54.9	1.79	"	68.9	ND	79.7	25-150		6.57	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	87.7	1.79	"	68.2	ND	129	25-150		1.71	35	
Perfluoro-1-octanesulfonamide (FOSA)	74.3	1.79	"	71.4	0.641	103	25-150		13.9	35	
Perfluorobutanesulfonic acid (PFBS)	70.8	1.79	"	63.2	9.74	96.5	25-150		2.86	35	
Perfluorodecanoic acid (PFDA)	71.0	1.79	"	71.4	ND	99.4	25-150		1.07	35	
Perfluorododecanoic acid (PFDoA)	70.6	1.79	"	71.4	ND	98.9	25-150		1.08	35	
Perfluoroheptanoic acid (PFHpA)	97.4	1.79	"	71.4	8.88	124	25-150		1.57	35	
Perfluorohexanesulfonic acid (PFHxS)	70.6	1.79	"	65.0	13.0	88.6	25-150		2.55	35	
Perfluorohexanoic acid (PFHxA)	76.3	1.79	"	71.4	10.2	92.6	25-150		10.3	35	
Perfluoro-n-butanoic acid (PFBA)	76.7	1.79	"	71.4	8.91	94.8	25-150		0.0713	35	
Perfluorononanoic acid (PFNA)	60.4	1.79	"	71.4	1.78	82.0	25-150		3.40	35	
Perfluorooctanesulfonic acid (PFOS)	75.3	1.79	"	66.1	13.9	92.9	25-150		8.35	35	
Perfluorooctanoic acid (PFOA)	126	1.79	"	71.4	63.9	86.9	25-150		1.08	35	
Perfluoropentanoic acid (PFPeA)	83.1	1.79	"	71.4	8.99	104	25-150		11.8	35	
Perfluorotetradecanoic acid (PFTA)	71.2	1.79	"	71.4	ND	99.6	25-150		9.65	35	
Perfluorotridecanoic acid (PFTrDA)	59.6	1.79	"	71.4	ND	83.5	25-150		7.13	35	
Perfluoroundecanoic acid (PFUnA)	75.0	1.79	"	71.4	ND	105	25-150		7.44	35	
Surrogate: M3PFBS	59.4		"	66.4		89.6	25-150				
Surrogate: M5PFHxA	60.8		"	71.4		85.1	25-150				
Surrogate: M4PFHpA	52.6		"	71.4		73.7	25-150				
Surrogate: M3PFHxS	71.4		"	67.6		106	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFDA)	79.6		"	71.4		111	25-150				
Surrogate: M6PFDA	60.8		"	71.4		85.1	25-150				
Surrogate: M7PFUdA	54.4		"	71.4		76.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	57.9		"	71.4		81.0	25-150				
Surrogate: M2PFTeDA	58.5		"	71.4		81.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	51.2		"	71.4		71.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	68.3		"	68.4		100	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	53.1		"	71.4		74.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.09		"	71.4		2.92	10-150				
Surrogate: d3-N-MeFOSAA	50.6		"	71.4		70.9	25-150				
Surrogate: d5-N-EtFOSAA	54.9		"	71.4		76.8	25-150				
Surrogate: M2-6:2 FTS	51.1		"	67.8		75.3	25-200				
Surrogate: M2-8:2 FTS	41.1		"	68.4		60.1	25-200				
Surrogate: M9PFNA	72.2		"	71.4		101	25-150				



PFAS Target compounds by LC/MS-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 BL12556 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike Dup (BL12556-MSD2)	*Source sample: 21L0936-02 (EFFLUENT 12/16/21)						Prepared: 12/21/2021 Analyzed: 12/23/2021				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	67.4	1.85	ng/L	71.1	0.730	93.8	25-200		19.8	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	70.0	4.63	"	70.4	2.21	96.3	25-200		11.0	35	
N-EtFOSAA	77.0	1.85	"	74.1	ND	104	25-150		1.62	35	
N-MeFOSAA	79.8	1.85	"	74.1	ND	108	25-150		6.63	35	
Perfluoro-1-decanesulfonic acid (PFDS)	61.0	1.85	"	71.5	ND	85.3	25-150		3.08	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	81.5	1.85	"	70.7	ND	115	25-150		2.02	35	
Perfluoro-1-octanesulfonamide (FOSA)	72.7	1.85	"	74.1	ND	98.2	25-150		0.849	35	
Perfluorobutanesulfonic acid (PFBS)	67.1	1.85	"	65.6	ND	102	25-150		10.2	35	
Perfluorodecanoic acid (PFDA)	79.7	1.85	"	74.1	ND	108	25-150		10.8	35	
Perfluorododecanoic acid (PFDoA)	75.7	1.85	"	74.1	ND	102	25-150		8.67	35	
Perfluoroheptanoic acid (PFHpA)	62.8	1.85	"	74.1	ND	84.8	25-150		3.04	35	
Perfluorohexanesulfonic acid (PFHxS)	61.2	1.85	"	67.4	ND	90.7	25-150		6.67	35	
Perfluorohexanoic acid (PFHxA)	77.1	1.85	"	74.1	2.96	100	25-150		1.93	35	
Perfluoro-n-butanoic acid (PFBA)	73.4	1.85	"	74.1	ND	99.0	25-150		1.88	35	
Perfluorononanoic acid (PFNA)	70.5	1.85	"	74.1	ND	95.1	25-150		13.6	35	
Perfluorooctanesulfonic acid (PFOS)	71.4	1.85	"	68.5	ND	104	25-150		12.9	35	
Perfluorooctanoic acid (PFOA)	69.9	1.85	"	74.1	ND	94.4	25-150		3.06	35	
Perfluoropentanoic acid (PFPeA)	71.0	1.85	"	74.1	0.815	94.7	25-150		1.23	35	
Perfluorotetradecanoic acid (PFTA)	72.5	1.85	"	74.1	ND	97.9	25-150		1.67	35	
Perfluorotridecanoic acid (PFTrDA)	65.4	1.85	"	74.1	ND	88.3	25-150		8.10	35	
Perfluoroundecanoic acid (PFUnA)	76.0	1.85	"	74.1	ND	103	25-150		5.43	35	
Surrogate: M3PFBS	70.7		"	68.8		103	25-150				
Surrogate: M5PFHxA	72.6		"	74.1		98.1	25-150				
Surrogate: M4PFHpA	80.7		"	74.1		109	25-150				
Surrogate: M3PFHxS	76.6		"	70.1		109	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	74.0		"	74.1		99.8	25-150				
Surrogate: M6PFDA	61.3		"	74.1		82.8	25-150				
Surrogate: M7PFUdA	58.9		"	74.1		79.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	63.2		"	74.1		85.3	25-150				
Surrogate: M2PFTeDA	55.9		"	74.1		75.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	70.9		"	74.1		95.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	63.7		"	70.9		89.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	71.8		"	74.1		96.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	11.3		"	74.1		15.3	10-150				
Surrogate: d3-N-MeFOSAA	57.7		"	74.1		77.9	25-150				
Surrogate: d5-N-EtFOSAA	50.6		"	74.1		68.3	25-150				
Surrogate: M2-6:2 FTS	70.7		"	70.3		101	25-200				
Surrogate: M2-8:2 FTS	65.4		"	71.0		92.1	25-200				
Surrogate: M9PFNA	66.7		"	74.1		90.0	25-150				





Sample and Data Qualifiers Relating to This Work Order

PFSu-H The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615

132-02 89th Ave Queens, NY 11418

clientservices@yorklab.com www.yorklab.com

800-306-YORK 800-306-9675

Page of

YORK Project No.
2140936

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company NSP	Company SADE	Company SANE	Company SANE	Company SANE	Company SANE	Company SANE	3402220.02	RUSH - Next Day	
Address 500 SUMMIT LAKE DR. KALHARRA, NY 10595	Address SADE	Address SADE	Address SADE	Address SADE	Address SADE	Address SADE		RUSH - Two Day	
Phone 914 461 2951	Phone SADE	Phone SADE	Phone SADE	Phone SADE	Phone SADE	Phone SADE		RUSH - Three Day	
Contact JOHN. BENYON@NSP.COM	Contact SADE	Contact SADE	Contact SADE	Contact SADE	Contact SADE	Contact SADE		RUSH - Four Day	
E-mail SADE	E-mail SADE	E-mail SADE	E-mail SADE	E-mail SADE	E-mail SADE	E-mail SADE		Standard (5-7 Day)	

YOUR Project Name
WESCHESPER COUNTY AIRPORT (WCA)

YOUR PO#:

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid	New York	Summary Report	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP Standard Excel EDD
DW - drinking water	Connecticut	NY ASP A Package	CT RCP DQ/DUE EQUIS (Standard)
WW - wastewater	Pennsylvania	NY ASP B Package	NJDEP Reduced Deliverables
O - Oil	Other:		NJDEP SRP HazSite
			NJDKQP Other:

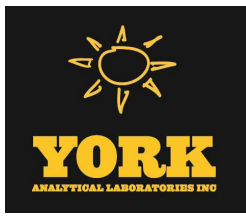
Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
INFLUENT 12/16/21	GW	12/16/21 1240	PFAS 537M	2 PPA W.P.
EFFLUENT 12/16/21		1230		↓
MS (EFFLUENT 12/16/21)		1230		1 PPA W.P.
MSD (EFFLUENT 12/16/21)		1230		↓
FIELD DUP 12/16/21				2 PPA W.P.
FIELD BANK 12/16/21	DC	1250		1 PPA W.P.

Comments:

Preservation: (check all that apply)
 HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
 ZnAc ___ Ascorbic Acid ___ Other: ___

1. Samples Relinquished by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Multidex WSP	12/16/21 13:25	Chie York	12-16-21 1506

3. Samples Received by / Company	Date/Time	4. Samples Received in LAB by	Date/Time	Temperature
		Scotty Mann	12/16/21 1506	5.6



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 12/23/2021
Client Project ID: 31402220.002 Westchester County Airport (WCA)
York Project (SDG) No.: 21L0944

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/23/2021
Client Project ID: 31402220.002 Westchester County Airport (WCA)
York Project (SDG) No.: 21L0944

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

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 16, 2021 and listed below. The project was identified as your project: **31402220.002 Westchester County Airport (WCA)**.

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 Sample and Analysis Qualifiers 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 Sample and Data Qualifiers Relating to This Work Order section of 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21L0944-01	EFFLUENT	Water	12/16/2021	12/16/2021
21L0944-02	TRIP BLANK	Water	12/16/2021	12/16/2021

General Notes for York Project (SDG) No.: 21L0944

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 analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/23/2021

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0944	31402220.002 Westchester County Airport (WCA)	Water	December 16, 2021 12:30 pm	12/16/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	12/17/2021 09:00	12/17/2021 13:49	PD
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

<u>York Project (SDG) No.</u> 21L0944	<u>Client Project ID</u> 31402220.002 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 16, 2021 12:30 pm	<u>Date Received</u> 12/16/2021
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Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 13:49	PD
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	102 %			78-126					
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	103 %			84-117					
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	102 %			71-130					

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
95-50-1	* 1,2-Dichlorobenzene	ND		ug/L	5.26	1	EPA 625 Certifications:	12/21/2021 07:42	12/22/2021 00:00	KH
541-73-1	* 1,3-Dichlorobenzene	ND		ug/L	5.26	1	EPA 625 Certifications:	12/21/2021 07:42	12/22/2021 00:00	KH
106-46-7	* 1,4-Dichlorobenzene	ND		ug/L	5.26	1	EPA 625 Certifications:	12/21/2021 07:42	12/22/2021 00:00	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
91-57-6	* 2-Methylnaphthalene	ND		ug/L	5.26	1	EPA 625 Certifications:	12/21/2021 07:42	12/22/2021 00:00	KH
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
83-32-9	Acenaphthene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
208-96-8	Acenaphthylene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
62-53-3	Aniline	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
120-12-7	Anthracene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
92-87-5	Benzidine	ND		ug/L	21.1	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
100-51-6	* Benzyl alcohol	ND		ug/L	5.26	1	EPA 625 Certifications:	12/21/2021 07:42	12/22/2021 00:00	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
218-01-9	Chrysene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
206-44-0	Fluoranthene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
86-73-7	Fluorene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
118-74-1	Hexachlorobenzene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
67-72-1	Hexachloroethane	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

Semi-Volatiles, EPA 625 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2021 07:42	12/22/2021 00:00	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2021 07:42	12/22/2021 00:00	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/21/2021 07:42	12/22/2021 00:00	KH
87-86-5	Pentachlorophenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
85-01-8	Phenanthrene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
108-95-2	Phenol	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
129-00-0	Pyrene	ND		ug/L	5.26	1	EPA 625 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/21/2021 07:42	12/22/2021 00:00	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	39.3 %	19.7-63.1							
4165-62-2	Surrogate: SURR: Phenol-d5	25.9 %	10.1-41.7							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	64.1 %	50.2-113							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.1 %	39.9-105							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	104 %	39.3-151							
1718-51-0	Surrogate: SURR: Terphenyl-d14	74.7 %	30.7-106							

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	0.00453		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
72-55-9	4,4'-DDE	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
50-29-3	4,4'-DDT	0.0152		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
309-00-2	Aldrin	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
319-84-6	alpha-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
319-85-7	beta-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
12789-03-6	Chlordane, total	ND		ug/L	0.0216	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

Pesticides, EPA 608 list

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
60-57-1	Dieldrin	ND		ug/L	0.00216	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
959-98-8	Endosulfan I	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
33213-65-9	Endosulfan II	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
72-20-8	Endrin	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
53494-70-5	* Endrin ketone	ND		ug/L	0.0108	1	EPA 608.3 Certifications: CTDOH	12/18/2021 05:59	12/19/2021 13:43	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
76-44-8	Heptachlor	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
72-43-5	Methoxychlor	ND		ug/L	0.00432	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
8001-35-2	Toxaphene	ND		ug/L	0.108	1	EPA 608.3 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 13:43	CM
	Surrogate Recoveries	Result					Acceptance Range			
877-09-8	Surrogate: Tetrachloro-m-xylene	93.9 %					30-120			
2051-24-3	Surrogate: Decachlorobiphenyl	94.2 %					30-120			

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

PCB (Polychlorinated Biphenyls)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA 608 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
1336-36-3	* Total PCBs	ND		ug/L	0.0541	1	EPA 608 Certifications: PADEP	12/18/2021 05:59	12/19/2021 06:31	BJ
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	86.5 %	30-120							
2051-24-3	Surrogate: Decachlorobiphenyl	68.0 %	30-120							

Arsenic by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	74.6		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Barium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	141		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Cadmium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Chromium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Copper by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 12:30 pm

12/16/2021

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Nickel by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	1.92		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Selenium by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	1.65		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Silver by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Zinc by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	22.1	B	ug/L	1.00	1	EPA 200.8 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 17:18	12/20/2021 15:26	EM

Mercury by EPA 245.1

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 245.1 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	12/16/2021 18:54	12/16/2021 18:54	AD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	12/16/2021 16:15	12/16/2021 21:22	ZTS



Sample Information

Client Sample ID: EFFLUENT

York Sample ID: 21L0944-01

York Project (SDG) No. 21L0944 Client Project ID 31402220.002 Westchester County Airport (WCA) Matrix Water Collection Date/Time December 16, 2021 12:30 pm Date Received 12/16/2021

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 57-12-5 Cyanide, total ND mg/L 0.0100 1 SM 4500 CN C/E 12/23/2021 12:50 12/23/2021 16:00 TJA

Oil & Grease

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: OILGREASE Oil & Grease ND mg/L 0.541 1 EPA 1664A 12/22/2021 13:48 12/23/2021 16:56 MAO

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: * pH 8.86 HT-pH pH units 0.500 1 SM 4500 H+B 12/20/2021 16:39 12/21/2021 14:32 ZTS

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 64743-03-9 Phenols, total ND mg/L 0.0500 1 EPA 420.1/2 12/21/2021 08:55 12/21/2021 15:20 JAG

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 21L0944-02

York Project (SDG) No. 21L0944 Client Project ID 31402220.002 Westchester County Airport (WCA) Matrix Water Collection Date/Time December 16, 2021 1:25 pm Date Received 12/16/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows 1-4: 71-55-6 1,1,1-Trichloroethane ND ug/L 0.50 1 EPA 624.1 12/17/2021 09:00 12/17/2021 12:02 PD; 79-34-5 1,1,2,2-Tetrachloroethane ND ug/L 0.50 1 EPA 624.1 12/17/2021 09:00 12/17/2021 12:02 PD; 79-00-5 1,1,2-Trichloroethane ND ug/L 0.50 1 EPA 624.1 12/17/2021 09:00 12/17/2021 12:02 PD; 75-34-3 1,1-Dichloroethane ND ug/L 0.50 1 EPA 624.1 12/17/2021 09:00 12/17/2021 12:02 PD



Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 21L0944-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21L0944

31402220.002 Westchester County Airport (WCA)

Water

December 16, 2021 1:25 pm

12/16/2021

Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
110-75-8	2-Chloroethylvinyl ether	ND		ug/L	20	1	EPA 624.1 Certifications: NELAC-NY10854,NJDEP,PADEP	12/17/2021 09:00	12/17/2021 12:02	PD
107-02-8	Acrolein	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
107-13-1	Acrylonitrile	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
71-43-2	Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
75-25-2	Bromoform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
74-83-9	Bromomethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
75-00-3	Chloroethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
67-66-3	Chloroform	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
74-87-3	Chloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD



Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 21L0944-02

<u>York Project (SDG) No.</u> 21L0944	<u>Client Project ID</u> 31402220.002 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 16, 2021 1:25 pm	<u>Date Received</u> 12/16/2021
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Volatile Organics, 624 List- Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	2.0	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
108-88-3	Toluene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	EPA 624.1 Certifications: CTDOH,NELAC-NY10854,NJDEP	12/17/2021 09:00	12/17/2021 12:02	PD
Surrogate Recoveries		Result	Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	78-126							
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	84-117							
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	103 %	71-130							



Analytical Batch Summary

Batch ID: BL12276 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/16/21
BL12276-BLK1	Blank	12/16/21
BL12276-BS1	LCS	12/16/21
BL12276-DUP1	Duplicate	12/16/21
BL12276-MS1	Matrix Spike	12/16/21

Batch ID: BL12286 **Preparation Method:** EPA 200.8 **Prepared By:** K T

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/16/21
BL12286-BLK1	Blank	12/16/21
BL12286-BS1	LCS	12/16/21
BL12286-DUP1	Duplicate	12/16/21
BL12286-MS1	Matrix Spike	12/16/21

Batch ID: BL12290 **Preparation Method:** EPA 245.1 Mercury **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/16/21
BL12290-BLK1	Blank	12/16/21
BL12290-BLK2	Blank	12/16/21
BL12290-BS1	LCS	12/16/21
BL12290-BS2	LCS	12/16/21

Batch ID: BL12310 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/17/21
21L0944-02	TRIP BLANK	12/17/21
BL12310-BLK1	Blank	12/17/21
BL12310-BS1	LCS	12/17/21
BL12310-BSD1	LCS Dup	12/17/21

Batch ID: BL12397 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/18/21
21L0944-01	EFFLUENT	12/18/21
BL12397-BLK2	Blank	12/18/21
BL12397-BS2	LCS	12/18/21
BL12397-BSD2	LCS Dup	12/18/21



Batch ID: BL12510 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/20/21
BL12510-DUP1	Duplicate	12/20/21

Batch ID: BL12532 **Preparation Method:** EPA 3510C **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/21/21
BL12532-BLK1	Blank	12/21/21
BL12532-BLK2	Blank	12/21/21
BL12532-BS1	LCS	12/21/21
BL12532-BS2	LCS	12/21/21
BL12532-BSD1	LCS Dup	12/21/21

Batch ID: BL12552 **Preparation Method:** Analysis Preparation **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/21/21
BL12552-BLK1	Blank	12/21/21
BL12552-BS1	LCS	12/21/21
BL12552-BS2	LCS	12/21/21
BL12552-DUP1	Duplicate	12/21/21

Batch ID: BL12660 **Preparation Method:** Analysis Preparation **Prepared By:** MAO

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/22/21
BL12660-BLK1	Blank	12/22/21
BL12660-BS1	LCS	12/22/21

Batch ID: BL12744 **Preparation Method:** Analysis Preparation **Prepared By:** TJA

YORK Sample ID	Client Sample ID	Preparation Date
21L0944-01	EFFLUENT	12/23/21
BL12744-BLK1	Blank	12/23/21
BL12744-BS1	LCS	12/23/21
BL12744-DUP1	Duplicate	12/23/21
BL12744-MS1	Matrix Spike	12/23/21



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
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Batch BL12310 - EPA 5030B

Blank (BL12310-BLK1)

Prepared & Analyzed: 12/17/2021

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Chloroethylvinyl ether	ND	20	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.92</i>		<i>"</i>	<i>10.0</i>		<i>99.2</i>	<i>78-126</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>84-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>71-130</i>				



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
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Batch BL12310 - EPA 5030B

LCS (BL12310-BS1)

Prepared & Analyzed: 12/17/2021

1,1,1-Trichloroethane	18		ug/L	20.0		89.8	78-136				
1,1,2,2-Tetrachloroethane	19		"	20.0		94.5	76-129				
1,1,2-Trichloroethane	18		"	20.0		88.4	82-123				
1,1-Dichloroethane	18		"	20.0		90.7	82-129				
1,1-Dichloroethylene	18		"	20.0		91.2	68-138				
1,2-Dichlorobenzene	19		"	20.0		92.8	79-123				
1,2-Dichloroethane	18		"	20.0		89.0	73-132				
1,2-Dichloropropane	19		"	20.0		96.0	78-126				
1,3-Dichlorobenzene	18		"	20.0		92.0	86-122				
1,4-Dichlorobenzene	19		"	20.0		92.6	84-124				
2-Chloroethylvinyl ether	0.0		"	20.0			10-201			Low Bias	
Acrolein	61		"	20.0		303	10-200			High Bias	
Acrylonitrile	20		"	20.0		99.5	49-160				
Benzene	18		"	20.0		92.5	85-126				
Bromodichloromethane	18		"	20.0		92.4	79-128				
Bromoform	19		"	20.0		95.4	78-133				
Bromomethane	21		"	20.0		105	43-168				
Carbon tetrachloride	19		"	20.0		93.3	77-141				
Chlorobenzene	19		"	20.0		96.0	88-120				
Chloroethane	20		"	20.0		101	65-136				
Chloroform	18		"	20.0		91.6	82-128				
Chloromethane	17		"	20.0		84.4	43-155				
cis-1,2-Dichloroethylene	18		"	20.0		90.8	83-129				
cis-1,3-Dichloropropylene	19		"	20.0		94.3	79-131				
Dibromochloromethane	19		"	20.0		94.1	80-130				
Ethyl Benzene	19		"	20.0		92.6	80-131				
Methyl tert-butyl ether (MTBE)	17		"	20.0		87.4	76-135				
Methylene chloride	19		"	20.0		95.8	55-137				
Tetrachloroethylene	11		"	20.0		53.4	82-131			Low Bias	
Toluene	19		"	20.0		92.6	79-127				
trans-1,2-Dichloroethylene	18		"	20.0		92.4	80-132				
trans-1,3-Dichloropropylene	19		"	20.0		94.4	78-131				
Trichloroethylene	18		"	20.0		89.8	82-128				
Trichlorofluoromethane	19		"	20.0		94.8	67-139				
Vinyl Chloride	19		"	20.0		96.0	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>9.68</i>		<i>"</i>	<i>10.0</i>		<i>96.8</i>	<i>78-126</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>84-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.66</i>		<i>"</i>	<i>10.0</i>		<i>96.6</i>	<i>71-130</i>				



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 BL12310 - EPA 5030B											
LCS Dup (BL12310-BSD1)											
Prepared & Analyzed: 12/17/2021											
1,1,1-Trichloroethane	17		ug/L	20.0		85.8	78-136		4.67	30	
1,1,2,2-Tetrachloroethane	20		"	20.0		101	76-129		6.55	30	
1,1,2-Trichloroethane	19		"	20.0		93.8	82-123		5.87	30	
1,1-Dichloroethane	17		"	20.0		87.3	82-129		3.82	30	
1,1-Dichloroethylene	17		"	20.0		86.2	68-138		5.69	30	
1,2-Dichlorobenzene	19		"	20.0		93.2	79-123		0.376	30	
1,2-Dichloroethane	18		"	20.0		91.0	73-132		2.28	30	
1,2-Dichloropropane	19		"	20.0		94.5	78-126		1.52	30	
1,3-Dichlorobenzene	18		"	20.0		89.6	86-122		2.53	30	
1,4-Dichlorobenzene	18		"	20.0		91.1	84-124		1.69	30	
2-Chloroethylvinyl ether	5.0		"	20.0		24.8	10-201			30	
Acrolein	59		"	20.0		295	10-200	High Bias	2.59	30	
Acrylonitrile	18		"	20.0		88.8	49-160		11.4	30	
Benzene	17		"	20.0		87.2	85-126		5.96	30	
Bromodichloromethane	19		"	20.0		93.9	79-128		1.66	30	
Bromoform	21		"	20.0		106	78-133		10.1	30	
Bromomethane	20		"	20.0		101	43-168		3.49	30	
Carbon tetrachloride	18		"	20.0		88.8	77-141		5.00	30	
Chlorobenzene	19		"	20.0		95.1	88-120		0.994	30	
Chloroethane	19		"	20.0		94.4	65-136		6.65	30	
Chloroform	18		"	20.0		87.8	82-128		4.24	30	
Chloromethane	16		"	20.0		82.0	43-155		2.94	30	
cis-1,2-Dichloroethylene	17		"	20.0		87.2	83-129		3.93	30	
cis-1,3-Dichloropropylene	19		"	20.0		95.8	79-131		1.53	30	
Dibromochloromethane	20		"	20.0		98.2	80-130		4.21	30	
Ethyl Benzene	18		"	20.0		90.4	80-131		2.46	30	
Methyl tert-butyl ether (MTBE)	19		"	20.0		94.5	76-135		7.81	30	
Methylene chloride	20		"	20.0		102	55-137		6.51	30	
Tetrachloroethylene	10		"	20.0		51.0	82-131	Low Bias	4.70	30	
Toluene	18		"	20.0		89.7	79-127		3.18	30	
trans-1,2-Dichloroethylene	17		"	20.0		85.4	80-132		7.87	30	
trans-1,3-Dichloropropylene	20		"	20.0		100	78-131		5.96	30	
Trichloroethylene	17		"	20.0		85.0	82-128		5.55	30	
Trichlorofluoromethane	18		"	20.0		90.4	67-139		4.70	30	
Vinyl Chloride	18		"	20.0		90.6	58-145		5.74	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	78-126				
Surrogate: SURR: Toluene-d8	10.3		"	10.0		103	84-117				
Surrogate: SURR: p-Bromofluorobenzene	9.65		"	10.0		96.5	71-130				



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
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Batch BL12532 - EPA 3510C

Blank (BL12532-BLK1)

Prepared & Analyzed: 12/21/2021

1,2,4-Trichlorobenzene	ND	5.00	ug/L								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	5.00	"								
Acenaphthylene	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	5.00	"								
Benzidine	ND	20.0	"								
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	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	5.00	"								
Chrysene	ND	5.00	"								
Dibenzo(a,h)anthracene	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	5.00	"								
Fluorene	ND	5.00	"								
Hexachlorobenzene	ND	5.00	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	5.00	"								
Isophorone	ND	5.00	"								



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
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Batch BL12532 - EPA 3510C

Blank (BL12532-BLK1)

Prepared & Analyzed: 12/21/2021

Naphthalene	ND	5.00	ug/L								
Nitrobenzene	ND	5.00	"								
N-Nitrosodimethylamine	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	5.00	"								
Phenanthrene	ND	5.00	"								
Phenol	ND	5.00	"								
Pyrene	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	13.3		"	50.0		26.5	19.7-63.1				
Surrogate: SURR: Phenol-d5	7.63		"	50.0		15.3	10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	15.0		"	25.0		59.9	50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	15.0		"	25.0		59.9	39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	44.7		"	50.0		89.4	39.3-151				
Surrogate: SURR: Terphenyl-d14	17.9		"	25.0		71.6	30.7-106				

Blank (BL12532-BLK2)

Prepared & Analyzed: 12/21/2021

1,2,4-Trichlorobenzene	ND	5.00	ug/L								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	5.00	"								
Acenaphthylene	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	5.00	"								
Benzidine	ND	20.0	"								
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	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								



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
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Batch BL12532 - EPA 3510C

Blank (BL12532-BLK2)

Prepared & Analyzed: 12/21/2021

Bis(2-chloroethyl)ether	ND	5.00	ug/L								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	5.00	"								
Chrysene	ND	5.00	"								
Dibenzo(a,h)anthracene	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	5.00	"								
Fluorene	ND	5.00	"								
Hexachlorobenzene	ND	5.00	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	5.00	"								
Indeno(1,2,3-cd)pyrene	ND	5.00	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	5.00	"								
Nitrobenzene	ND	5.00	"								
N-Nitrosodimethylamine	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	5.00	"								
Phenanthrene	ND	5.00	"								
Phenol	ND	5.00	"								
Pyrene	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	0.00		"	50.0			19.7-63.1				
Surrogate: SURR: Phenol-d5	0.00		"	50.0			10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	0.00		"	25.0			50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	0.00		"	25.0			39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	0.00		"	50.0			39.3-151				
Surrogate: SURR: Terphenyl-d14	0.00		"	25.0			30.7-106				



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
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Batch BL12532 - EPA 3510C

LCS (BL12532-BS1)

Prepared & Analyzed: 12/21/2021

1,2,4-Trichlorobenzene	14.5	5.00	ug/L	25.0		57.9	35-91				
1,2-Dichlorobenzene	12.5	5.00	"	25.0		50.1	42-85				
1,3-Dichlorobenzene	12.2	5.00	"	25.0		48.9	45-80				
1,4-Dichlorobenzene	12.4	5.00	"	25.0		49.6	42-82				
2,4,5-Trichlorophenol	17.7	5.00	"	25.0		70.6	36-112				
2,4,6-Trichlorophenol	17.6	5.00	"	25.0		70.6	41-107				
2,4-Dichlorophenol	17.5	5.00	"	25.0		70.0	43-92				
2,4-Dimethylphenol	15.5	5.00	"	25.0		61.9	25-92				
2,4-Dinitrophenol	17.3	5.00	"	25.0		69.3	10-149				
2,4-Dinitrotoluene	18.0	5.00	"	25.0		72.2	41-114				
2,6-Dinitrotoluene	17.9	5.00	"	25.0		71.4	49-106				
2-Chloronaphthalene	14.0	5.00	"	25.0		55.9	40-96				
2-Chlorophenol	13.0	5.00	"	25.0		52.0	35-84				
2-Methylnaphthalene	15.2	5.00	"	25.0		60.6	27-97				
2-Nitrophenol	17.0	5.00	"	25.0		68.2	37-97				
3,3-Dichlorobenzidine	13.0	5.00	"	50.0		26.1	25-155				
4,6-Dinitro-2-methylphenol	20.9	5.00	"	25.0		83.5	10-135				
4-Bromophenyl phenyl ether	16.7	5.00	"	25.0		66.8	38-116				
4-Chloro-3-methylphenol	17.4	5.00	"	25.0		69.5	28-101				
4-Chlorophenyl phenyl ether	16.4	5.00	"	25.0		65.6	34-112				
4-Nitrophenol	7.37	5.00	"	25.0		29.5	10-112				
Acenaphthene	15.0	5.00	"	25.0		59.9	24-114				
Acenaphthylene	14.6	5.00	"	25.0		58.3	26-112				
Aniline	21.2	5.00	"	25.0		84.7	10-132				
Anthracene	16.4	5.00	"	25.0		65.7	35-114				
Benzo(a)anthracene	16.2	5.00	"	25.0		64.8	38-127				
Benzo(a)pyrene	17.8	5.00	"	25.0		71.2	30-146				
Benzo(b)fluoranthene	16.8	5.00	"	25.0		67.2	36-145				
Benzo(g,h,i)perylene	15.9	5.00	"	25.0		63.6	10-163				
Benzo(k)fluoranthene	17.3	5.00	"	25.0		69.2	16-149				
Benzyl alcohol	11.2	5.00	"	25.0		44.9	11-82				
Benzyl butyl phthalate	15.4	5.00	"	25.0		61.6	28-129				
Bis(2-chloroethoxy)methane	13.1	5.00	"	25.0		52.5	27-112				
Bis(2-chloroethyl)ether	29.4	5.00	"	25.0		117	24-114	High Bias			
Bis(2-chloroisopropyl)ether	8.72	5.00	"	25.0		34.9	21-124				
Bis(2-ethylhexyl)phthalate	16.2	5.00	"	25.0		64.8	10-171				
Chrysene	15.9	5.00	"	25.0		63.4	33-120				
Dibenzo(a,h)anthracene	16.3	5.00	"	25.0		65.2	10-149				
Diethyl phthalate	16.5	5.00	"	25.0		66.0	38-112				
Dimethyl phthalate	16.2	5.00	"	25.0		64.8	49-106				
Di-n-butyl phthalate	16.2	5.00	"	25.0		64.9	36-110				
Di-n-octyl phthalate	16.4	5.00	"	25.0		65.6	12-149				
Fluoranthene	16.9	5.00	"	25.0		67.7	33-126				
Fluorene	15.8	5.00	"	25.0		63.3	28-117				
Hexachlorobenzene	15.1	5.00	"	25.0		60.4	27-120				
Hexachlorobutadiene	14.9	5.00	"	25.0		59.6	25-106				
Hexachlorocyclopentadiene	11.4	5.00	"	25.0		45.5	10-99				
Hexachloroethane	11.7	5.00	"	25.0		46.9	33-84				
Indeno(1,2,3-cd)pyrene	15.2	5.00	"	25.0		60.7	10-150				
Isophorone	14.2	5.00	"	25.0		56.8	29-115				
Naphthalene	13.9	5.00	"	25.0		55.6	30-99				



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 BL12532 - EPA 3510C											
LCS (BL12532-BS1)											
Prepared & Analyzed: 12/21/2021											
Nitrobenzene	13.6	5.00	ug/L	25.0		54.4	32-113				
N-Nitrosodimethylamine	6.40	5.00	"	25.0		25.6	10-63				
N-nitroso-di-n-propylamine	12.8	5.00	"	25.0		51.1	36-118				
N-Nitrosodiphenylamine	17.9	5.00	"	25.0		71.6	27-145				
Pentachlorophenol	14.4	5.00	"	25.0		57.6	19-127				
Phenanthrene	15.5	5.00	"	25.0		61.9	31-112				
Phenol	5.93	5.00	"	25.0		23.7	10-37				
Pyrene	14.8	5.00	"	25.0		59.4	42-125				
<i>Surrogate: SURRE: 2-Fluorophenol</i>	<i>13.8</i>		<i>"</i>	<i>50.0</i>		<i>27.6</i>	<i>19.7-63.1</i>				
<i>Surrogate: SURRE: Phenol-d5</i>	<i>8.63</i>		<i>"</i>	<i>50.0</i>		<i>17.3</i>	<i>10.1-41.7</i>				
<i>Surrogate: SURRE: Nitrobenzene-d5</i>	<i>13.8</i>		<i>"</i>	<i>25.0</i>		<i>55.4</i>	<i>50.2-113</i>				
<i>Surrogate: SURRE: 2-Fluorobiphenyl</i>	<i>14.1</i>		<i>"</i>	<i>25.0</i>		<i>56.5</i>	<i>39.9-105</i>				
<i>Surrogate: SURRE: 2,4,6-Tribromophenol</i>	<i>41.0</i>		<i>"</i>	<i>50.0</i>		<i>82.0</i>	<i>39.3-151</i>				
<i>Surrogate: SURRE: Terphenyl-d14</i>	<i>16.2</i>		<i>"</i>	<i>25.0</i>		<i>64.8</i>	<i>30.7-106</i>				
LCS (BL12532-BS2)											
Prepared & Analyzed: 12/21/2021											
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1.00			35-91	Low Bias			
1,2-Dichlorobenzene	ND	5.00	"	1.00			42-85	Low Bias			
1,3-Dichlorobenzene	ND	5.00	"	1.00			45-80	Low Bias			
1,4-Dichlorobenzene	ND	5.00	"	1.00			42-82	Low Bias			
2,4,5-Trichlorophenol	ND	5.00	"	1.00			36-112	Low Bias			
2,4,6-Trichlorophenol	ND	5.00	"	1.00			41-107	Low Bias			
2,4-Dichlorophenol	ND	5.00	"	1.00			43-92	Low Bias			
2,4-Dimethylphenol	ND	5.00	"	1.00			25-92	Low Bias			
2,4-Dinitrophenol	ND	5.00	"	1.00			10-149	Low Bias			
2,4-Dinitrotoluene	ND	5.00	"	1.00			41-114	Low Bias			
2,6-Dinitrotoluene	ND	5.00	"	1.00			49-106	Low Bias			
2-Chloronaphthalene	ND	5.00	"	1.00			40-96	Low Bias			
2-Chlorophenol	ND	5.00	"	1.00			35-84	Low Bias			
2-Methylnaphthalene	ND	5.00	"	1.00			27-97	Low Bias			
2-Nitrophenol	ND	5.00	"	1.00			37-97	Low Bias			
3,3-Dichlorobenzidine	ND	5.00	"				25-155				
4,6-Dinitro-2-methylphenol	ND	5.00	"	1.00			10-135	Low Bias			
4-Bromophenyl phenyl ether	ND	5.00	"	1.00			38-116	Low Bias			
4-Chloro-3-methylphenol	ND	5.00	"	1.00			28-101	Low Bias			
4-Chlorophenyl phenyl ether	ND	5.00	"	1.00			34-112	Low Bias			
4-Nitrophenol	ND	5.00	"	1.00			10-112	Low Bias			
Acenaphthene	ND	5.00	"	1.00			24-114	Low Bias			
Acenaphthylene	ND	5.00	"	1.00			26-112	Low Bias			
Aniline	ND	5.00	"	1.00			10-132	Low Bias			
Anthracene	ND	5.00	"	1.00			35-114	Low Bias			
Benzo(a)anthracene	ND	5.00	"	1.00			38-127	Low Bias			
Benzo(a)pyrene	ND	5.00	"	1.00			30-146	Low Bias			
Benzo(b)fluoranthene	ND	5.00	"	1.00			36-145	Low Bias			
Benzo(g,h,i)perylene	ND	5.00	"	1.00			10-163	Low Bias			
Benzo(k)fluoranthene	ND	5.00	"	1.00			16-149	Low Bias			
Benzyl alcohol	ND	5.00	"	1.00			11-82	Low Bias			
Benzyl butyl phthalate	ND	5.00	"	1.00			28-129	Low Bias			
Bis(2-chloroethoxy)methane	ND	5.00	"	1.00			27-112	Low Bias			
Bis(2-chloroethyl)ether	ND	5.00	"	1.00			24-114	Low Bias			
Bis(2-chloroisopropyl)ether	ND	5.00	"	1.00			21-124	Low Bias			



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
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Batch BL12532 - EPA 3510C

LCS (BL12532-BS2)

Prepared & Analyzed: 12/21/2021

Bis(2-ethylhexyl)phthalate	ND	5.00	ug/L	1.00			10-171	Low Bias			
Chrysene	ND	5.00	"	1.00			33-120	Low Bias			
Dibenzo(a,h)anthracene	ND	5.00	"	1.00			10-149	Low Bias			
Diethyl phthalate	ND	5.00	"	1.00			38-112	Low Bias			
Dimethyl phthalate	ND	5.00	"	1.00			49-106	Low Bias			
Di-n-butyl phthalate	ND	5.00	"	1.00			36-110	Low Bias			
Di-n-octyl phthalate	ND	5.00	"	1.00			12-149	Low Bias			
Fluoranthene	ND	5.00	"	1.00			33-126	Low Bias			
Fluorene	ND	5.00	"	1.00			28-117	Low Bias			
Hexachlorobenzene	ND	5.00	"	1.00			27-120	Low Bias			
Hexachlorobutadiene	ND	5.00	"	1.00			25-106	Low Bias			
Hexachlorocyclopentadiene	ND	5.00	"	1.00			10-99	Low Bias			
Hexachloroethane	ND	5.00	"	1.00			33-84	Low Bias			
Indeno(1,2,3-cd)pyrene	ND	5.00	"	1.00			10-150	Low Bias			
Isophorone	ND	5.00	"	1.00			29-115	Low Bias			
Naphthalene	ND	5.00	"	1.00			30-99	Low Bias			
Nitrobenzene	ND	5.00	"	1.00			32-113	Low Bias			
N-Nitrosodimethylamine	ND	5.00	"	1.00			10-63	Low Bias			
N-nitroso-di-n-propylamine	ND	5.00	"	1.00			36-118	Low Bias			
N-Nitrosodiphenylamine	ND	5.00	"	1.00			27-145	Low Bias			
Pentachlorophenol	ND	5.00	"	1.00			19-127	Low Bias			
Phenanthrene	ND	5.00	"	1.00			31-112	Low Bias			
Phenol	ND	5.00	"	1.00			10-37	Low Bias			
Pyrene	ND	5.00	"	1.00			42-125	Low Bias			
Surrogate: SURR: 2-Fluorophenol	0.00		"	50.0			19.7-63.1				
Surrogate: SURR: Phenol-d5	0.00		"	50.0			10.1-41.7				
Surrogate: SURR: Nitrobenzene-d5	0.00		"	25.0			50.2-113				
Surrogate: SURR: 2-Fluorobiphenyl	0.00		"	25.0			39.9-105				
Surrogate: SURR: 2,4,6-Tribromophenol	0.00		"	50.0			39.3-151				
Surrogate: SURR: Terphenyl-d14	0.00		"	25.0			30.7-106				



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 BL12532 - EPA 3510C											
LCS Dup (BL12532-BSD1)											
Prepared & Analyzed: 12/21/2021											
1,2,4-Trichlorobenzene	13.0	5.00	ug/L	25.0		52.2	35-91		10.5	20	
1,2-Dichlorobenzene	11.7	5.00	"	25.0		46.8	42-85		6.69	20	
1,3-Dichlorobenzene	11.2	5.00	"	25.0		44.7	45-80	Low Bias	8.97	20	
1,4-Dichlorobenzene	11.4	5.00	"	25.0		45.6	42-82		8.40	20	
2,4,5-Trichlorophenol	16.3	5.00	"	25.0		65.0	36-112		8.25	20	
2,4,6-Trichlorophenol	16.4	5.00	"	25.0		65.8	41-107		7.04	20	
2,4-Dichlorophenol	15.6	5.00	"	25.0		62.2	43-92		11.7	20	
2,4-Dimethylphenol	14.3	5.00	"	25.0		57.2	25-92		7.85	20	
2,4-Dinitrophenol	15.2	5.00	"	25.0		60.8	10-149		13.1	20	
2,4-Dinitrotoluene	17.0	5.00	"	25.0		68.2	41-114		5.76	20	
2,6-Dinitrotoluene	16.8	5.00	"	25.0		67.3	49-106		6.00	20	
2-Chloronaphthalene	13.1	5.00	"	25.0		52.3	40-96		6.58	20	
2-Chlorophenol	12.1	5.00	"	25.0		48.4	35-84		7.09	20	
2-Methylnaphthalene	14.0	5.00	"	25.0		56.1	27-97		7.74	20	
2-Nitrophenol	15.8	5.00	"	25.0		63.4	37-97		7.24	20	
3,3-Dichlorobenzidine	12.8	5.00	"	50.0		25.6	25-155		1.62	20	
4,6-Dinitro-2-methylphenol	19.8	5.00	"	25.0		79.0	10-135		5.56	20	
4-Bromophenyl phenyl ether	15.9	5.00	"	25.0		63.7	38-116		4.78	20	
4-Chloro-3-methylphenol	16.2	5.00	"	25.0		65.0	28-101		6.78	20	
4-Chlorophenyl phenyl ether	15.3	5.00	"	25.0		61.4	34-112		6.74	20	
4-Nitrophenol	6.34	5.00	"	25.0		25.4	10-112		15.0	20	
Acenaphthene	14.0	5.00	"	25.0		56.0	24-114		6.63	20	
Acenaphthylene	13.7	5.00	"	25.0		54.9	26-112		6.01	20	
Aniline	20.3	5.00	"	25.0		81.3	10-132		4.14	20	
Anthracene	15.5	5.00	"	25.0		62.1	35-114		5.70	20	
Benzo(a)anthracene	15.5	5.00	"	25.0		62.1	38-127		4.16	20	
Benzo(a)pyrene	17.0	5.00	"	25.0		67.8	30-146		4.84	20	
Benzo(b)fluoranthene	16.0	5.00	"	25.0		63.8	36-145		5.19	20	
Benzo(g,h,i)perylene	15.5	5.00	"	25.0		61.8	10-163		2.87	20	
Benzo(k)fluoranthene	16.5	5.00	"	25.0		66.0	16-149		4.79	20	
Benzyl alcohol	10.7	5.00	"	25.0		42.7	11-82		4.93	20	
Benzyl butyl phthalate	15.0	5.00	"	25.0		59.8	28-129		2.83	20	
Bis(2-chloroethoxy)methane	12.1	5.00	"	25.0		48.3	27-112		8.41	20	
Bis(2-chloroethyl)ether	28.2	5.00	"	25.0		113	24-114		4.14	20	
Bis(2-chloroisopropyl)ether	8.22	5.00	"	25.0		32.9	21-124		5.90	20	
Bis(2-ethylhexyl)phthalate	15.7	5.00	"	25.0		62.8	10-171		3.20	20	
Chrysene	15.0	5.00	"	25.0		60.2	33-120		5.31	20	
Dibenzo(a,h)anthracene	15.6	5.00	"	25.0		62.6	10-149		4.07	20	
Diethyl phthalate	15.2	5.00	"	25.0		60.8	38-112		8.26	20	
Dimethyl phthalate	15.1	5.00	"	25.0		60.4	49-106		6.97	20	
Di-n-butyl phthalate	15.4	5.00	"	25.0		61.5	36-110		5.38	20	
Di-n-octyl phthalate	15.6	5.00	"	25.0		62.4	12-149		5.06	20	
Fluoranthene	16.0	5.00	"	25.0		63.9	33-126		5.77	20	
Fluorene	14.7	5.00	"	25.0		59.0	28-117		7.13	20	
Hexachlorobenzene	14.3	5.00	"	25.0		57.4	27-120		5.10	20	
Hexachlorobutadiene	13.7	5.00	"	25.0		54.6	25-106		8.75	20	
Hexachlorocyclopentadiene	10.4	5.00	"	25.0		41.6	10-99		8.82	20	
Hexachloroethane	10.5	5.00	"	25.0		42.1	33-84		10.8	20	
Indeno(1,2,3-cd)pyrene	14.7	5.00	"	25.0		58.6	10-150		3.49	20	
Isophorone	13.1	5.00	"	25.0		52.5	29-115		7.91	20	
Naphthalene	12.9	5.00	"	25.0		51.5	30-99		7.62	20	



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
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Batch BL12532 - EPA 3510C

LCS Dup (BL12532-BSD1)

Prepared & Analyzed: 12/21/2021

Nitrobenzene	12.9	5.00	ug/L	25.0		51.5	32-113		5.36	20	
N-Nitrosodimethylamine	6.06	5.00	"	25.0		24.2	10-63		5.46	20	
N-nitroso-di-n-propylamine	11.6	5.00	"	25.0		46.5	36-118		9.51	20	
N-Nitrosodiphenylamine	17.3	5.00	"	25.0		69.0	27-145		3.58	20	
Pentachlorophenol	13.5	5.00	"	25.0		53.9	19-127		6.60	20	
Phenanthrene	14.7	5.00	"	25.0		59.0	31-112		4.83	20	
Phenol	5.28	5.00	"	25.0		21.1	10-37		11.6	20	
Pyrene	14.4	5.00	"	25.0		57.8	42-125		2.73	20	
<i>Surrogate: SURR: 2-Fluorophenol</i>	<i>12.6</i>		<i>"</i>	<i>50.0</i>		<i>25.3</i>	<i>19.7-63.1</i>				
<i>Surrogate: SURR: Phenol-d5</i>	<i>7.56</i>		<i>"</i>	<i>50.0</i>		<i>15.1</i>	<i>10.1-41.7</i>				
<i>Surrogate: SURR: Nitrobenzene-d5</i>	<i>12.9</i>		<i>"</i>	<i>25.0</i>		<i>51.7</i>	<i>50.2-113</i>				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	<i>13.3</i>		<i>"</i>	<i>25.0</i>		<i>53.3</i>	<i>39.9-105</i>				
<i>Surrogate: SURR: 2,4,6-Tribromophenol</i>	<i>39.5</i>		<i>"</i>	<i>50.0</i>		<i>78.9</i>	<i>39.3-151</i>				
<i>Surrogate: SURR: Terphenyl-d14</i>	<i>16.1</i>		<i>"</i>	<i>25.0</i>		<i>64.3</i>	<i>30.7-106</i>				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL12397 - EPA SW846-3510C Low Level

Blank (BL12397-BLK2)

Prepared: 12/18/2021 Analyzed: 12/19/2021

Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								

Surrogate: Tetrachloro-m-xylene	0.142		"	0.200		71.0	30-120				
Surrogate: Decachlorobiphenyl	0.131		"	0.200		65.5	30-120				

LCS (BL12397-BS2)

Prepared: 12/18/2021 Analyzed: 12/19/2021

Aroclor 1016	1.06	0.0500	ug/L	1.00		106	40-120				
Aroclor 1260	0.957	0.0500	"	1.00		95.7	40-120				
Surrogate: Tetrachloro-m-xylene	0.139		"	0.200		69.5	30-120				
Surrogate: Decachlorobiphenyl	0.105		"	0.200		52.5	30-120				

LCS Dup (BL12397-BSD2)

Prepared: 12/18/2021 Analyzed: 12/19/2021

Aroclor 1016	1.01	0.0500	ug/L	1.00		101	40-120	4.92	30		
Aroclor 1260	0.889	0.0500	"	1.00		88.9	40-120	7.36	30		
Surrogate: Tetrachloro-m-xylene	0.134		"	0.200		67.0	30-120				
Surrogate: Decachlorobiphenyl	0.0940		"	0.200		47.0	30-120				



Metals by ICP/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
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Batch BL12286 - EPA 200.8

Blank (BL12286-BLK1)

Prepared: 12/16/2021 Analyzed: 12/17/2021

Arsenic	ND	1.00	ug/L								
Barium	ND	1.00	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Copper	ND	1.00	"								
Lead	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Zinc	8.29	1.00	"								

LCS (BL12286-BS1)

Prepared: 12/16/2021 Analyzed: 12/17/2021

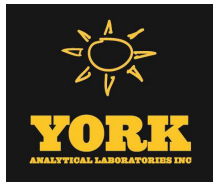
Arsenic	63.1		ug/L	50.0	126	80-120	High Bias
Barium	64.4		"	50.0	129	80-120	High Bias
Cadmium	52.6		"	50.0	105	80-120	
Chromium	45.5		"	50.0	91.0	80-120	
Copper	51.6		"	50.0	103	80-120	
Lead	68.1		"	50.0	136	80-120	High Bias
Nickel	48.4		"	50.0	96.8	90-110	
Selenium	72.9		"	50.0	146	90-110	High Bias
Silver	52.0		"	50.0	104	90-110	
Zinc	73.1		"	50.0	146	90-110	High Bias

Duplicate (BL12286-DUP1)

*Source sample: 21L0944-01 (EFFLUENT)

Prepared: 12/16/2021 Analyzed: 12/20/2021

Arsenic	73.3	1.00	ug/L		74.6		1.70	20	
Barium	138	1.00	"		141		1.64	20	
Cadmium	0.108	0.500	"		0.103		3.96	20	
Chromium	0.145	1.00	"		0.109		29.1	20	Non-dir.
Copper	0.563	1.00	"		0.485		14.9	20	
Lead	0.425	1.00	"		0.417		1.75	20	
Nickel	1.97	1.00	"		1.92		2.52	20	
Selenium	1.29	1.00	"		1.65		24.4	20	Non-dir.
Silver	ND	1.00	"		ND			20	
Zinc	15.2	1.00	"		22.1		37.2	20	Non-dir.

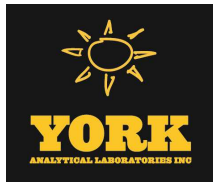


Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL12286 - EPA 200.8

Matrix Spike (BL12286-MS1)	*Source sample: 21L0944-01 (EFFLUENT)						Prepared: 12/16/2021 Analyzed: 12/20/2021				
Arsenic	136		ug/L	50.0	74.6	123	75-125				
Barium	188		"	50.0	141	94.8	75-125				
Cadmium	49.1		"	50.0	0.103	98.0	75-125				
Chromium	48.4		"	50.0	0.109	96.6	75-125				
Copper	45.3		"	50.0	0.485	89.5	75-125				
Lead	61.6		"	50.0	0.417	122	75-125				
Nickel	46.7		"	50.0	1.92	89.6	75-125				
Selenium	77.3		"	50.0	1.65	151	75-125	High Bias			
Silver	49.8		"	50.0	0.006	99.5	75-125				
Zinc	71.0		"	50.0	22.1	97.6	75-125				



Mercury by EPA 7000/200 Series Methods - 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 BL12290 - EPA 245.1 Mercury											
Blank (BL12290-BLK1)											
Mercury	ND	0.0002000	mg/L								Prepared & Analyzed: 12/16/2021
Blank (BL12290-BLK2)											
Mercury	ND	0.0002000	mg/L								Prepared & Analyzed: 12/16/2021
LCS (BL12290-BS1)											
Mercury	0.002037	0.0002000	mg/L	0.00200		102	75-125				Prepared & Analyzed: 12/16/2021
LCS (BL12290-BS2)											
Mercury	0.001905	0.0002000	mg/L	0.00200		95.2	75-125				Prepared & Analyzed: 12/16/2021



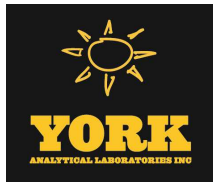
Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL12276 - Analysis Preparation											
Blank (BL12276-BLK1)										Prepared & Analyzed: 12/16/2021	
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BL12276-BS1)										Prepared & Analyzed: 12/16/2021	
Chromium, Hexavalent	0.516	0.0100	mg/L	0.500		103	80-120				
Duplicate (BL12276-DUP1) *Source sample: 21L0938-01 (Duplicate)										Prepared & Analyzed: 12/16/2021	
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BL12276-MS1) *Source sample: 21L0938-01 (Matrix Spike)										Prepared & Analyzed: 12/16/2021	
Chromium, Hexavalent	0.454	0.0100	mg/L	0.500	ND	90.8	75-125				
Batch BL12510 - Analysis Preparation											
Duplicate (BL12510-DUP1) *Source sample: 21L0951-02 (Duplicate)										Prepared: 12/20/2021 Analyzed: 12/21/2021	
pH	7.32	0.500	pH units		7.20				1.65	10	
Batch BL12552 - Analysis Preparation											
Blank (BL12552-BLK1)										Prepared & Analyzed: 12/21/2021	
Phenols, total	ND	0.0500	mg/L								
LCS (BL12552-BS1)										Prepared & Analyzed: 12/21/2021	
Phenols, total	1.16	0.0500	mg/L	1.00		116	67-116				
LCS (BL12552-BS2)										Prepared & Analyzed: 12/21/2021	
Phenols, total	1.16	0.0500	mg/L	1.00		116	67-116				



Wet Chemistry Parameters - 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 BL12552 - Analysis Preparation												
Duplicate (BL12552-DUP1)		*Source sample: 21L1115-02 (Duplicate)						Prepared & Analyzed: 12/21/2021				
Phenols, total	ND	0.0500	mg/L		ND					15		
Batch BL12660 - Analysis Preparation												
Blank (BL12660-BLK1)								Prepared: 12/22/2021 Analyzed: 12/23/2021				
Oil & Grease	ND	0.500	mg/L									
LCS (BL12660-BS1)								Prepared: 12/22/2021 Analyzed: 12/23/2021				
Oil & Grease	16.2	1.00	mg/L	16.0		101	78-114					
Batch BL12744 - Analysis Preparation												
Blank (BL12744-BLK1)								Prepared & Analyzed: 12/23/2021				
Cyanide, total	ND	0.0100	mg/L									
LCS (BL12744-BS1)								Prepared & Analyzed: 12/23/2021				
Cyanide, total	0.204	0.0100	mg/L	0.200		102	76.2-107					
Duplicate (BL12744-DUP1)		*Source sample: 21L0944-01 (EFFLUENT)						Prepared & Analyzed: 12/23/2021				
Cyanide, total	ND	0.0100	mg/L		ND					15		
Matrix Spike (BL12744-MS1)		*Source sample: 21L0944-01 (EFFLUENT)						Prepared & Analyzed: 12/23/2021				
Cyanide, total	0.207	0.0100	mg/L	0.200	ND	103	79-105					



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21L0944-01	EFFLUENT	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21L0944-02	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

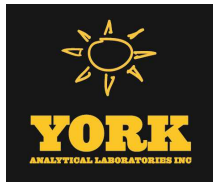


Sample and Data Qualifiers Relating to This Work Order

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.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

APPENDIX G

FLUORO-SORB® ADSORBENT

GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING FLUORO-SORB ADSORBENT IN A FILTRATION VESSEL



FLUORO-SORB® 200



FLUORO-SORB® 300



FLUORO-SORB® 400

GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING IN A FILTRATION VESSEL

FOR FLUORO-SORB 200 ADSORBENT, FLUORO-SORB 300 ADSORBENT, AND FLUORO-SORB 400 ADSORBENT

A distributor or splash plate is required in the top inlet of the vessel. Laterals in the bottom of the vessel are also necessary. The openings in the bottom laterals or screens should be smaller than 0.0165 in (0.42 mm), which is the smallest particle size in media.

The waste stream to be treated must be free of suspended solids; otherwise, FLUORO-SORB adsorbent will be blinded and no treatment will occur. If suspended solids are a problem, a bag or cartridge filter must be placed prior to the vessel.

The vessel should have an air eliminator valve. If not, install one on the vessel or on the inlet pipe as it enters the top of the vessel.

Load the vessel with a minimum of 2 ft (0.6 m) of FLUORO-SORB adsorbent. Leave a minimum of 15% - 20% head space to allow for expansion of media (>30%) during back flush.

Fill the vessel with freshwater and back flush vessel (up-flow) for 30± 2 minutes.

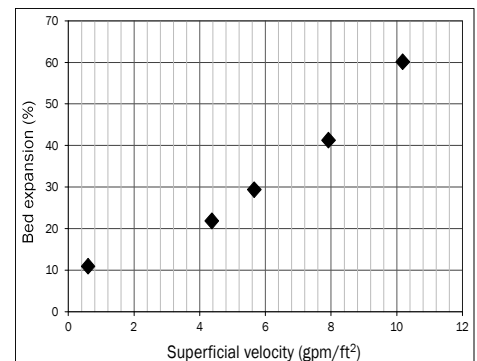
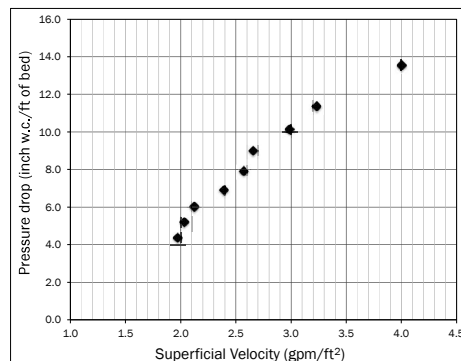
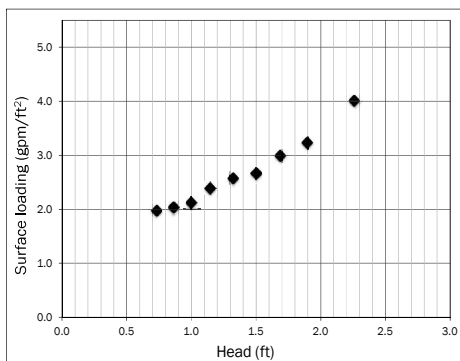
Water should be directed slowly up through the column starting at 1 gpm/ft² (41 Lpm/m²) and gradually increasing flowrate to 9 gpm/ft² (370 Lpm/m²) in the first few minutes to fluidize the media and attain sufficient transport velocities. This step accomplishes three important things:

- Removes fines
- Eliminates entrained air from the bed
- Washes off residual compounds from the manufacturing process

After back flush, do not drain vessel. The vessel is now ready for down flow operation.

OPERATION

Please refer to FLUORO-SORB adsorbent technical data sheets to estimate the pressure drop as a function of superficial velocity. For drinking water applications, please refer to the NSF/ANSI certification for flow through conditions.



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FLUORO-SORB® 100



FLUORO-SORB® 200



FLUORO-SORB® 300



FLUORO-SORB® 400

FLUORO-SORB® ADSORBENT

ADSORPTION MEDIA FOR THE REMEDATION AND REMOVAL OF PFAS

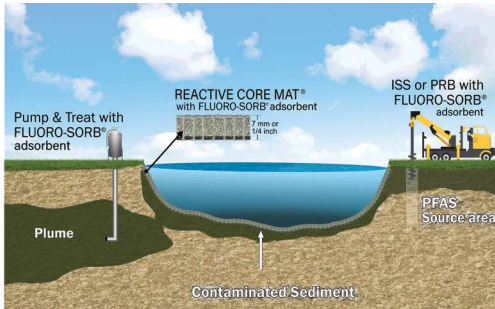
FLUORO-SORB adsorbent is a proprietary, NSF-certified adsorption media that is proven to effectively treat multiple variants of PFAS. Unlike other sorbent products that are selective and unpredictable in adsorbing PFAS, FLUORO-SORB adsorbent binds the entire spectrum of PFAS and in a wide variety of removal and remediation processes.

With a specially modified surface, FLUORO-SORB adsorbent resists competitive adsorption from other water and sediment contaminants making it a more effective and efficient choice.

FLUORO-SORB adsorbent is commercially available in four variations. For more information or to obtain a sample for your laboratory treatability study, contact cetco@mineralstech.com.

TREATMENT APPLICATIONS

Groundwater
Drinking Water
Surface Water
Soil



Adaptable Solutions for Your Specific Project

Versatility in deployment

- Flow-through filtration technology for drinking and/or groundwater
- Permeable Reactive Barrier (PRB) for passive groundwater
- In-situ stabilization for source zone treatment
- Within a CETCO REACTIVE CORE MAT® composite geotextile mat for sediment capping
- Pre- or post-treatment in connection with other treatment media

Variability in design

- Three available grain sizes in four custom blends
- 1500lb (680.4kg) supersacks

High-Performing Treatment Option

Superior Technology

- Higher sorption kinetics and better sorption capacity
- More selective toward entire family of PFAS
- Not impacted by co-contaminants in the waste stream
- Use with or in place of other treatment media for improved efficacy

Trusted

- NSF/ANSI 61 certified
- Manufactured in an ISO9001:2015 facility
- Made in the USA

To obtain a sample for your laboratory treatability study, contact cetco@mineralstech.com.



Our Standards. Your Peace of Mind.

At CETCO, our goal is to help you succeed. Through our knowledge and experience in minerals, polymers, and the construction industry, we provide solutions to unique challenges globally. Our remediation technologies exceed industry standards and offer innovative alternatives to traditional construction options.

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product-sell-sheet-fluorosorb-adsorbent-na-en-201910-v2



REACTIVE CORE MAT®

WITH FLUORO-SORB® 200 ADSORBENT

DESCRIPTION

REACTIVE CORE MAT with FLUORO-SORB 200 adsorbent consists of a layer of FLUORO-SORB 200 sandwiched between two geotextiles, which are needle-punched together. The result is a contaminated sediment capping mat that adsorbs PFAS contaminants.

PANEL DIMENSIONS

- Panel Dimensions: 15 ft (4.57 m) wide x 100 ft (30.5 m) long
- Total Panel Area: 1,500 ft² (139.4 m²)

ROLL DIMENSIONS

- Length: 16 ft (4.9 m)
- Diameter: 22 in (559 mm)
- Core Diameter: 4 in (100 mm) I.D.

- Nominal Weight: 1,500 lbs (680 kg)
- Packaging: 2 mil (0.05 mm) polyethylene sleeve

SHIPPING

- Flatbed truck shipment size: 30 rolls; 45,000 ft² (4,181 m²)
- All shipments will contain three stacks of rolled materials on flatbed

HANDLING

- Core Pipe: length = 18 ft (5.5 m); O.D. = 3.5 in (90 mm); strength rating = XXH or strongest available
- Alternatives: solid steel pipe with above dimensions; custom-fabricated “stinger” for forklift



- Spreader Bar: I-beam supported by chains
- Straps: factory-placed lifting straps available upon request

TESTING DATA

MATERIAL PROPERTY	TEST METHOD	RESULT
FLUORO-SORB adsorbent mass/area ¹	CETCO Test Method	0.8 lb/ft ² (3.9 kg/m ²) min.
Tensile strength ²	ASTM D 4632	90 lbs (400 N) min.
Hydraulic conductivity ^{3,4}	ASTM D4491	1 x 10 ⁻³ cm/sec min.

Notes:

¹ FLUORO-SORB adsorbent mass reported on net roll weight basis

² Tensile testing performed in machine direction

³ Sample deaired with vacuum for 16 hours. Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy's Law and RCM thickness

⁴ Typical values are based on periodic data

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REACTIVE CORE MAT®

WITH FLUORO-SORB® 200 ADSORBENT

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PANEL DIMENSIONS

- Panel Dimensions: 15 ft (4.57 m) wide x 100 ft (30.5 m) long
- Total Panel Area: 1,500 ft² (139.4 m²)

ROLL DIMENSIONS

- Length: 16 ft (4.9 m)
- Diameter: 22 in (559 mm)
- Core Diameter: 4 in (100 mm) I.D.

- Nominal Weight: 1,500 lbs (680 kg)
- Packaging: 2 mil (0.05 mm) polyethylene sleeve

SHIPPING

- Flatbed truck shipment size: 30 rolls; 45,000 ft² (4,181 m²)
- All shipments will contain three stacks of rolled materials on flatbed

HANDLING

- Core Pipe: length = 18 ft (5.5 m); O.D. = 3.5 in (90 mm); strength rating = XXH or strongest available
- Alternatives: solid steel pipe with above dimensions; custom-fabricated “stinger” for forklift



- Spreader Bar: I-beam supported by chains
- Straps: factory-placed lifting straps available upon request

TESTING DATA

MATERIAL PROPERTY	TEST METHOD	RESULT
FLUORO-SORB adsorbent mass/area ¹	CETCO Test Method	0.8 lb/ft ² (3.9 kg/m ²) min.
Tensile strength ²	ASTM D 4632	90 lbs (400 N) min.
Hydraulic conductivity ^{3,4}	ASTM D4491	1 x 10 ⁻³ cm/sec min.

Notes:

¹ FLUORO-SORB adsorbent mass reported on net roll weight basis

² Tensile testing performed in machine direction

³ Sample deaired with vacuum for 16 hours. Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy's Law and RCM thickness

⁴ Typical values are based on periodic data

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