

AMANDA LEFTON Acting Commissioner

March 20, 2025

Michelle Caulfield, Superintendent Corning – Painted Post Area School District 165 Charles St. Painted Post, NY 14870

Re: Hugh W. Gregg Elementary School Soil Investigation Summary NYSDEC Site: Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York (Site #851074)

Dear Michelle Caulfield:

Thank you for your cooperation during the work completed to date. This work is vital to ensuring the health and safety of the entire Corning community.

We are enclosing a copy of the soil investigation summary for your records. This report summarizes the lab testing results for detected compounds from the soil borings collected at the school. These results have been compared against regulatory cleanup objectives and guidance values, based on 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) for restricted-residential use (NYSDEC 2006). Based on the results of this investigation, there are no immediate exposure risks associated with glass manufacturing waste (i.e., ash, brick, and/or glass (ABG)) on the Hugh W. Gregg Elementary School property.

As you review the report, you may notice that ABG was observed in one soil boring location from 31-32 inches below ground surface and is not currently present at the surface. Exceedances of *unrestricted* SCOs were detected in a total of three samples across the three composite sample areas; however, no exceedances of *restricted*-residential SCOs were detected in the soil samples.

To provide some context, restricted-residential SCOs are applicable to properties where there is common or single ownership for managing the property and allows for recreational use with the potential for soil contact (such as an apartment complex or a school property). There were limited exceedances of the *unrestricted* SCOs which do not pose a risk for current school property use. Nevertheless, DEC should be notified of any upcoming intrusive work or if ABG is encountered to ensure the material is handled appropriately. Best management practices for minimizing exposure to ABG are included as **Appendix E.**

Should you have any questions or require additional information, please contact Samantha Salotto at 518-402-9903 or samantha.salotto@dec.ny.gov. If you should have any health-related questions, please contact John Robinson of the NYSDOH at 518-402-7881 or johnathan.robinson@health.ny.gov.

Thank you once again for your continued cooperation.

Sincerely, Michael j Cruden Michael J. Cruden, P.E. Director, Remedial Bureau E Division of Environmental Remediation

[Enclosure]

S. Salotto, NYSDEC ec: J. Robinson, NYSDOH

HUGH W. GREGG ELEMENTARY SCHOOL SOIL INVESTIGATION SUMMARY

Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York

Corning, Steuben County, New York

Prepared for:



New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway 12th Floor Albany, New York 12233–7012

Prepared by: PARSONS 301 Plainfield Road Suite 350 Syracuse, New York 13212

MARCH 2025



TABLE OF CONTENTS

Pl	ROJECT BACKGROUND	1
SI	UMMARY OF WORK COMPLETED	1
	Soil Boring Installation and Sample Collection	. 1
	Results.	. 3
	Investigation-Derived Waste Management	. 3
	Site Restoration	. 3
	Recommendations	. 4
R	EFERENCES	4

LIST OF TABLES

TABLE 1 SOIL OBSERVATIONS TABLE 2 SOIL DETECTIONS

LIST OF FIGURES

FIGURE 1 SITE LOCATIONS AND AREAS OF CONCERN FIGURE 2 SAMPLE LOCATIONS

LIST OF APPENDICES

APPENDIX A BORING LOGS
APPENDIX B PHOTOGRAPHIC LOG
APPENDIX C ARCHIVE SAMPLE LOGS
APPENDIX D CAMP DATA
APPENDIX E DATA USABILITY SUMMARY REPORT
APPENDIX F BEST MANAGEMENT PRACTICES

PROJECT BACKGROUND

The New York State Department of Environmental Conservation (NYSDEC) is conducting an area-wide investigation of contamination in the greater Corning, New York area, focusing on hazardous waste and substances linked to historical glass manufacturing and waste disposal. In 2012, fill containing waste materials from former glass manufacturing processes, now known as ash, brick, and/or glass (ABG), was encountered during a capital improvement project at the Corning-Painted Post High School. Since 2012, over seventy locations have been identified as having confirmed or suspected ABG.

Investigations to date in the greater Corning, New York area have included collection of surface soil, subsurface soil, sediment, surface water and groundwater samples. Findings from sampling have identified ABG and/or elevated concentrations of metals (most frequently arsenic, cadmium, and lead) and semi-volatile organic compounds (SVOCs) above NYSDEC soil cleanup objectives (SCOs; NYSDEC 2006) at residential, recreational, and commercial/industrial properties.

As part of the Investigation and Site Characterization of the Glass Manufacturing Waste Disposal Area in the Greater Corning Area of New York, four schools (William E. Severn, Hugh W. Gregg, Winfield Street, and Frederick Carder elementary schools) have been identified for investigation. These schools were selected due to their proximity to sites with confirmed ABG. ABG was observed in the right of way adjacent to Hugh W. Gregg Elementary School. There were no reports of historic waste disposal or observations of ABG on the school property prior to the investigation. The intent of the school investigations is to assess the potential presence of ABG and the potential impacts from these materials in the surface and subsurface soils.

As shown on **Figure 1**, the Hugh W. Gregg Elementary School is located near several sites with confirmed ABG. This report details the results of the initial sampling at Hugh W. Gregg Elementary School in August 2024 to assess the potential presence and impact of ABG in surface and subsurface soils.

SUMMARY OF WORK COMPLETED

Field activities were conducted in general accordance with the *Initial Investigation Work Plan for Corning Painted-Posted Area School District Properties* (Work Plan; Parsons 2024), with any variances from the Work Plan described herein. School specific plans were developed in conjunction with the *Site Characterization Work Plan, Corning Area Wide Study* (Work Plan; Parsons 2023). In addition, field activities were completed in accordance with DER-10 (NYSDEC 2010) and the following documents that prepared and approved for Parsons' contract with the NYSDEC:

- Generic Field Activities Plan (FAP; Parsons 2020a)
- Project Safety, Health and Environmental Plan, Corning Inc. Sites, Corning, NY (PSHEP, Parsons 2024)
- Quality Assurance Project Plan, Corning Area Wide Study (QAPP, Parsons 2023)

Soil Boring Installation and Sample Collection

Fifteen soil borings were advanced manually via a hand auger to a depth of four feet within areas of non-impervious surfaces at the school, as shown on **Figure 2**. Boring logs and photographs of recovered soils are included in **Appendix A and Appendix B**, respectively. The soil boring locations were recorded using a handheld global positioning system (GPS) unit. Due to the presence of large cobbles and challenging hand augering conditions, several borings were offset by several feet from the planned locations. At several borings, refusal



occurred at depths shallower than four feet below ground surface (bgs), and is noted in the boring logs included in **Appendix A.**

Soil samples were collected and logged continuously from 0 to 4 feet bgs at each boring location. Each soil sample was also screened for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID) and readings were recorded on the boring logs. Observations of any debris and ABG are noted in **Table 1**.

Soil samples were collected at each boring location from 0 to 6 inches, 6 to 24 inches, and 24 to 48 inches. Soils from each interval were composited across five borings to create a single five-point composite sample, for a total of nine composite samples across three areas of the school property, as shown on **Figure 2**. Soils were placed into laboratory provided sample jars and submitted for laboratory analysis. All soil samples were analyzed for total metals, including boron and mercury. In addition, 20 percent of soil samples (one sample) was also analyzed for SVOCs, per- and polyfluoroalkyl substances (PFAS) and 1,4–dioxane to achieve the minimum 20 percent analysis frequency for samples collected as part of the area-wide investigation. The soil samples were not analyzed for Toxicity Characteristic Leaching Procedure (TCLP) analysis and would not be expected to exceed TCLP criteria given that the total metals concentrations for two of the three soil samples were below the most protective (i.e., unrestricted) SCOs and although the third soil sample exceeded the unrestricted SCO for zinc, it did not exceed the restricted-residential SCO.

Archive samples were collected when specific items related to historical manufacturing waste, primarily associated with glass manufacturing, were identified. Two archive samples were collected at boring location HGE-01-05. Archive sample logs are included as **Appendix C.**

The New York State Department of Health (NYSDOH) generic Community Air Monitoring Plan (CAMP) (NYSDEC 2010) was implemented for real-time monitoring of VOCs and particulates (i.e., dust) at the upwind and downwind perimeter of each designated work area during intrusive activities on-site. CAMP data is summarized in the tables below and is included as **Appendix D.** No downwind VOC concentrations were observed to exceed the action limit of 5.0 parts per million (ppm) above upwind concentrations. No downwind particulate concentrations were observed to exceed the action limit of 0.100 milligrams per cubic meter (mg/m³) above upwind concentrations.

	Upwind VOC Co	oncentrations	Downwind VOC Concentrations							
Date	Average (ppm)	Peak (ppm)	Average (ppm)	Peak (ppm)						
8/19/2024	0.3	0.3	0.0	0.0						
8/20/2024	0.5	0.7	0.1	0.1						
8/21/2024	0.9	1.4	0.1	0.2						
8/22/2024	0.5	0.9	0.0	0.1						

DAILY CAMP READINGS - AVERAGE AND PEAK VOC CONCENTRATIONS

ppm – parts per million

DAILY CAMP READINGS - AVERAGE AND PEAK PARTICULATE CONCENTRATIONS

	Upwind Pa Concenti	rticulate rations	Downwind Particulate Concentrations							
Date	Average (mg/m ³)	Peak (mg/m³)	Average (mg/m ³)	Peak (mg/m³)						
8/19/2024	0.002	0.004	0.001	0.001						
8/20/2024	0.009	0.011	0.002	0.003						
8/21/2024	0.010	0.014	0.007	0.009						



8/22/2024	0.013	0.014	0.012	0.012
-----------	-------	-------	-------	-------

```
mg/m3 – milligrams per cubic meter
```

Results

ABG was observed at Hugh W. Gregg Elementary School in 1 of the 15 borings across the three composite areas between 2 to 4 feet bgs. Examples of ABG observed include glass cullet and ceramic shards, as summarized in **Table 1**. Debris was observed throughout the investigation area. A staff member at the school noted to Parsons field staff that there used to be two buildings on the school property that were demolished some time before the current elementary school was built. During construction of the current elementary school, the ground had to be excavated because the demolition debris from one of the old buildings was buried in its former basement. The staff member noted that the footprint of the other demolished building was within the other composite locations. Based on limited sampling completed as part of this investigation, most of the debris observed in the borings appeared to be demolition debris. The quality of the data has been assessed and is documented in the Data Usability Summary Report (DUSR), which is included as **Appendix E**. Validated data have been submitted to NYSDEC for upload into the NYSDEC EQUIS database.

Sample results were compared to unrestricted and restricted-residential SCOs (NYSDEC 2006) and the NYSDEC PFAS restricted-residential guidance values (NYSDEC 2023). The unrestricted SCOs are the most stringent standard that allows for use with no imposed restrictions on the property (i.e., no risk to receptors). The restricted-residential SCOs are applicable to properties where there is common or single ownership for managing the property and allows for recreational use with the potential for soil contact (such as an apartment complex or a school property), excluding vegetable gardens. Restricted-residential standards are applicable to the top two feet of soils not covered by structures (e.g., buildings, sidewalks, pavement).

A summary of detected concentrations and the corresponding unrestricted and restricted-residential SCOs is included in **Table 2**. Perfluorooctanesulfonic acid (PFOS) was detected at concentrations (0.93 to 2.7 micrograms per kilogram [μ g/kg]) exceeding the unrestricted SCO (0.88 μ g/kg) in two samples collected from 0.5 to 2 feet bgs. Perfluorooctanoic acid (PFOA) was also detected at a concentration (0.73 μ g/kg) exceeding the unrestricted SCO in one of these samples. The detected concentration of zinc (110 milligrams per kilogram [mg/kg]) marginally exceeded the unrestricted SCO (109 mg/kg) in a sample collected from 0 to 0.5 feet bgs. None of the samples had analyte concentrations exceeding restricted-residential SCOs. The full analytical results are included in the DUSR (**Appendix E**).

Investigation-Derived Waste Management

Investigation-derived waste (IDW), including decontamination rinsates, personal protective equipment, and disposable sampling equipment were placed in U.S. Department of Transportation (DOT)-approved 55-gallon 17-H type drums. NYSDEC's IDW contractor, T&R Environmental, collected characterization samples of the IDW, submitted the samples for analysis, and subsequently removed the IDW drums from the property for disposal at a licensed facility.

Site Restoration

During the investigation, care was taken to preserve the grass at the borehole locations. After sampling was completed, each borehole was backfilled with the remaining soil and additional topsoil as needed, from the total



depth to the ground surface. The surface was then regraded by hand, and the grass layer was replaced. The ground surface was restored to its original condition prior to the intrusive activities.

Recommendations

Based on the results of this investigation, there are no immediate exposure risks associated with ABG. ABG was observed in one four-foot-deep soil boring location. Exceedances of unrestricted SCOs were detected in a total of three samples across the three composite sample areas. No exceedances of restricted-residential SCOs were detected in the soil samples. These limited exceedances of the Unrestricted SCO do not pose a risk for current school property use. However, additional investigation is recommended to further assess the extent of ABG and any associated impacts to soil on the Hugh W. Gregg Elementary School Property. NYSDEC should be notified of any upcoming intrusive work or if ABG is encountered. Best management practices for minimizing exposure to ABG are included as **Appendix F.**

REFERENCES

- Burmister, D. M. 1951. Principles and techniques of soil identification. Proceedings of the American Society of Civil Engineers
- NYSDEC. 2006. New York Code of Rules and Regulation, Title 6, Part 375 Environmental Remediation Programs. December 14.
- NYSDEC. 2023. Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs. April.
- NYSDEC. 2010. DER-10 / Technical Guidance for Site Investigation and Remediation. May 3.
- Parsons. 2020a. *Generic Field Activities Plan (FAP)*. Prepared for the New York State Department of Environmental Conservation, Albany, NY. April.
- Parsons. 2023 Quality Assurance Project Plan, Corning Area Wide Study. Prepared for the New York State Department of Environmental Conservation, Albany, NY. February
- Parsons. 2023. Site Characterization Work Plan, Corning Area Wide Study. Prepared for the New York State Department of Environmental Conservation, Albany, NY. March
- Parsons. 2024. Project Safety, Health and Environmental Plan, Corning Inc. Sites, Corning, NY Prepared for the New York State Department of Environmental Conservation, Albany, NY. April.
- Parsons. 2024. Initial Investigation Work Plan, Corning-Painted Post Area School District Properties. Prepared for the New York State Department of Environmental Conservation, Albany, NY. August.



FIGURES

Hugh W. Gregg Elementary School – Soil Investigation Summary



Document Path: Q:\GIS\NYSDEC\Corning\APRXs\Corning Schools\Corning Schools.aprx



Document Path: Q:\GIS\NYSDEC\Corning\APRXs\Corning Schools\Corning Schools.aprx



TABLES

Hugh W. Gregg Elementary School – Soil Investigation Summary

				Archive Sample
School	Sample Date	Sample Location	Non - Native Material Encountered	Collected
Hugh Gregg	8/22/2024	HGE-01-01	2 small glass fragments from 0-0.5ft. Rusty nail in top 2ft.	No
Hugh Gregg	8/22/2024	HGE-01-02	One small building brick fragment 0.5-2ft.	No
Hugh Gregg	8/22/2024	HGE-01-03	Ash and slag from 4-19 in.	No
Hugh Gregg	8/22/2024	HGE-01-04	No.	No
Hugh Gregg	8/22/2024	HGE-01-05	Glass (cullet) and ceramic shards from 31-32 in.	Yes
Hugh Gregg	8/20/2024	HGE-02-01	Piece of clay pipe at 2.5ft	No
Hugh Gregg	8/20/2024	HGE-02-02	Small orange brick fragments from 2.25 to 2.5ft .	No
Hugh Gregg	8/20/2024	HGE-02-03	No.	No
Hugh Gregg	8/20/2024	HGE-02-04	Small brick fragments from 1.25-2ft.	No
Hugh Gregg	8/20/2024	HGE-02-05	Historic glass and metal from 0-0.5ft.	No
Hugh Gregg	8/21/2024	HGE-03-01	Trace brick fragments from 2-3.75ft.	No
			One small glass fragment 0-0.5ft, Brick fragments from 1-1.25ft,	
Hugh Gregg	8/21/2024	HGE-03-02	square rock found at 1.9ft.	No
Hugh Gregg	8/21/2024	HGE-03-03	Small brick fragments and coal from 0.5-2ft.	No
Hugh Gregg	8/21/2024	HGE-03-04	Pieces of stone foundation from 0.75-1ft, ash from 0-2.75ft.	No
Hugh Gregg	8/21/2024	HGE-03-05	Ash, brick, and slag from 0-4ft.	No

Table 1 - Soil Observations

Table 2 Soil Detections

			Location ID	AWS-HG	F-SS-01	AWS-HO	GE-SS-01	AWS-HO	GE-SS-01	AWS-HGE-SS-02		
			Sample ID	AWS-HGE-	SS-01-0-0 5	AWS-HGE-	SS-01-0 5-2	AWS-HGE	-SS-01-2-4	AWS-HGE	-02-0-0 5	
			Start Depth	(100)	0	5	1110 1102	2		0200.0	
			End Depth	0	5		2		4	0	5	
			Matrix	s	0	9	0	c		S	0	
			Sample Date	8/22/	2024	8/22	2024	8/22	/2024	8/20	/2024	
			Sample Type Code	0/22/	4	0/22	V V	0/22	N	N		
		RESTRICTED	campie Type code									
Chemical Name	Unit	RESIDENTIAL	UNRESTRICTED									
2-Methylnaphthalene	ma/ka					0.043	J					
Anthracene	ma/ka	100	100			0.2	U					
Benzo(A)Anthracene	ma/ka	1	1			0.094	J					
Benzo(A)Pyrene	ma/ka	1	1			0.094	J					
Benzo(B)Fluoranthene	mg/kg	1	1			0.13	J					
Benzo(G,H,I)Perylene	mg/kg	100	100			0.2	UJ					
Benzo(K)Fluoranthene	mg/kg	3.9	0.8			0.07	J					
Bis(2-Ethylhexyl) Phthalate	mg/kg					0.2	J					
Carbazole	mg/kg					0.2	U					
Chrysene	mg/kg	3.9	1			0.11	J					
Fluoranthene	mg/kg	100	100			0.14	J					
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.5	0.5			0.2	UJ					
Naphthalene	mg/kg	100	12			0.11	J					
Phenanthrene	mg/kg	100	100			0.082	J					
Pyrene	mg/kg	100	100			0.17	J					
Solids, Percent	%			82.1		84.4		85.4		88.7		
Perfluorobutanesulfonic acid (PFBS)	uq/kq					0.046	J					
Perfluorodecanesulfonic acid (PFDS)	ug/kg					0.11	JN					
Perfluorodecanoic acid (PFDA)	ug/kg					0.52						
Perfluorododecanoic acid (PFDoA)	ug/kg					0.19	J					
Perfluoroheptanoic acid (PFHpA)	ug/kg					0.16	J					
Perfluorohexanesulfonic acid (PFHxS)	ug/kg					0.081	J					
Perfluorohexanoic acid (PFHxA)	ug/kg					0.25						
Perfluorononanoic acid (PFNA)	ug/kg					0.2						
Perfluorooctanesulfonic acid (PFOS)	ug/kg	44	0.88			2.7						
Perfluorooctanoic acid (PFOA)	ug/kg	33	0.66			0.73						
Perfluoropentanoic Acid (PFPeA)	ug/kg					0.42						
Perfluorotetradecanoic acid (PFTA)	ug/kg					0.076	J					
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	uq/kq					0.031	J					
Perfluoroundecanoic Acid (PFUnA)	ug/kg					0.09	J					
Aluminum	mg/kg		10	10000		11000		15000		8600		
Arsenic	mg/kg	16	13	6.9		7.9		7.1		6.9		
Barium	mg/kg	400	350	95		120		100		6/		
Deren	rng/kg	12	1.2	0.51		0.57	1	0.55		0.33	1	
Boron	mg/kg	4300	440	2.3	J	2.5	J	1./	J	3.4	J	
	mg/kg	4.3	2.5	0.36	J	0.38	J	0.22	J	0.24	J	
Calcium	mg/kg	100	20	1700		3400		1300		68000		
Chromium, Totai	mg/kg	180	30	12		71		15		10		
Conner	mg/kg	270	50	/.5		/.1		8.3		5.8	1.	
Line	mg/kg	270	50	22000		18		2/000		10000	J+	
Load	mg/ka	400	42	22000	1	21000		20000		18000		
Leau Magnosium	mg/kg	400	03	2600	J	2700		31		24 6100		
Magnesium	mg/kg	2000	1600	2000		2/00		3100		500		
Nickol	mg/kg	310	30	420		430		430		12		
Potassium	mg/kg	310	30	1000		020		020		720		
Sodium	mg/kg			200	11	930		920	u .	220		
Vanadium	mg/kg			200	0	190	0	190	0	230		
Zinc	mg/kg	10000	109	13	1	10		76		110		
Mercury	ma/ka	0.81	0.18	0.089	5	0.12		0.14	1	0,052		

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs

Subpart 375-6, December 2006

U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;

J = estimated at the value given; J + = estimated biased high at the value given N = normal sample; FD = field duplicate; SO = soil

mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram

Value exceeds the NYCRR Unrestricted Use SCOs



Table 2 Soil Detections

			Location ID	AWS-HO	GE-SS-02	AWS-HO	GE-SS-02	AWS-HO	GE-SS-03	AWS-HO	E-SS-03
			Sample ID	AWS-HGE	-02-0.5-2	AWS-HO	E-02-2-4	AWS-HGE-	SS-03-0-0.5	AWS-HGE-S	SS-03-0.5-2
			Start Depth	0	5		2		0	0	5
			End Depth		2		4	0	.5	_	>
			Matrix	S	0	5	0	S	60	S	0
			Sample Date	8/20	/2024	8/20	/2024	8/21	/2024	8/21/	2024
			Sample Type Code	1	N		N		N	1	4
		RESTRICTED									
Chemical Name	Unit	RESIDENTIAL	UNRESTRICTED								
2-Methylnaphthalene	mg/kg									0.19	U
Anthracene	mg/kg	100	100							0.046	J
Benzo(A)Anthracene	mg/kg	1	1							0.26	
Benzo(A)Pyrene	mq/kq	1	1							0.23	
Benzo(B)Fluoranthene	mg/kg	1	1							0.32	
Benzo(G,H,I)Perylene	mg/kg	100	100							0.083	J
Benzo(K)Fluoranthene	mg/kg	3.9	0.8							0.15	J
Bis(2-Ethylhexyl) Phthalate	mg/kg									0.39	U
Carbazole	mg/kg									0.041	J
Chrysene	mg/kg	3.9	1							0.32	
Fluoranthene	mg/kg	100	100							0.57	
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.5	0.5							0.15	J
Naphtnaiene	mg/kg	100	12			<u> </u>				0.19	U
Phenanthrene	mg/kg	100	100							0.37	
Pyrene Callula Damant	mg/kg	100	100	00.0		05.0		70.0		0.58	
Solids, Percent	%			82.9		85.8		12.9		86.7	
Perfluorobulariesulionic acid (PEBS)	uq/kq									0.2	0
Perfluorodecaneic acid (PEDA)	ug/kg									0.037	J
Perfluorododocanoic acid (PEDA)	ug/kg									0.027	J
Perfluorobentanoic acid (PEUpA)	ug/kg									0.037	J
Perfluorobevanesulfonic acid (PEHyS)	ug/kg									0.1	J
Perfluorohexanoic acid (PEHxA)	ug/kg									0.17	-
Perfluorononanoic acid (PENA)	ug/kg									0.11	1
Perfluorooctanesulfonic acid (PEOS)	ua/ka	44	0.88							0.93	5
Perfluorooctanoic acid (PFOA)	ua/ka	33	0.66							0.33	
Perfluoropentanoic Acid (PFPeA)	ua/ka									0.16	JN
Perfluorotetradecanoic acid (PFTA)	ug/kg									0.2	U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	uq/kq									0.2	U
Perfluoroundecanoic Acid (PFUnA)	ug/kg									0.031	J
Aluminum	mg/kg			9000		8900		8300		8900	
Arsenic	mg/kg	16	13	5.9		6.1		9.1		7.8	
Barium	mg/kg	400	350	69		45		86		92	
Beryllium	mg/kg	72	7.2	0.37		0.37		0.56		0.58	
Boron	mg/kg	4300	440	2.6	J	2.3	J	2.6	J	1.9	J
Cadmium	mg/kg	4.3	2.5	0.22	J	0.37	U	0.47		0.32	J
Calcium	mg/kg			9300		1500		4200		3600	
Chromium, Total	mg/kg	180	30	9.9		10		11		11	
Cobalt	mg/kg			5.8		6.2		8.4		7.7	
Copper	mg/kg	270	50	22	J+	21	J+	20		21	
	mq/kq	400	(2	1/000		19000		18000		18000	
Leau	mg/kg	400	63	24		16		2200		62	
Manganoso	mg/kg	2000	1600	3000		2000		2200		2200 E00	
Nickol	mg/kg	310	30	200		480		300		300	
Potassium	mg/kg	310	30	670		610		Q00		13	
Sodium	ma/ka			240		240		220	u	100	U.
Vanadium	ma/ka			13		13	1	12	1	14	-
Zinc	ma/ka	10000	109	87		66	1	100	İ	87	
Mercury	mg/kg	0.81	0.18	0.055	J-	0.042	J-	0.11		0.14	

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs

Subpart 375-6, December 2006

U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;

J = estimated at the value given; J+ = estimated biased high at the value given

N = normal sample; FD = field duplicate; SO = soil

mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram

Value exceeds the NYCRR Unrestricted Use SCOs



Table 2 Soil Detections

			Less them ID		NE CC 00
	AWS-HO	E-SS-U3			
	AWS-HGE	-SS-03-2-4			
			Start Depth		2
			End Depth		4
			Matrix	S	0
			Sample Date	8/21/	/2024
			Sample Type Code		N
		RESTRICTED			
Chemical Name	RESIDENTIAL	UNRESTRICTED			
2-Methylnaphthalene	mg/kg				
Anthracene	mg/kg	100	100		
Benzo(A)Anthracene	mg/kg	1	1		
Benzo(A)Pyrene	mg/kg	1	1		
Benzo(B)Fluoranthene	mg/kg	1	1		
Benzo(G,H,I)Perylene	mg/kg	100	100		
Benzo(K)Fluoranthene	mg/kg	3.9	0.8		
Bis(2-Ethylhexyl) Phthalate	ma/ka				
Carbazole	ma/ka				
Chrysene	ma/ka	3.9	1		
Fluoranthene	ma/ka	100	100		
Indeno(1.2.3-C.D)Pyrene	ma/ka	0.5	0.5		
Naphthalene	ma/ka	100	12		
Phenanthrene	ma/ka	100	100		
Pyrene	ma/ka	100	100		
Solids Percent	%	100	100	86.2	
Perfluorobutanesulfonic acid (PEBS)	ua/ka			00.2	
Perfluorodecanesulfonic acid (PEDS)	ua/ka				
Perfluorodecanoic acid (PEDA)	ug/kg				
Perfluorododecanoic acid (PEDoA)	ua/ka				
Perfluorobentanoic acid (PEHpA)	ua/ka				
Perfluorohexanesulfonic acid (PEHxS)	ug/kg				
Perfluorohexanoic acid (PEHxA)	ua/ka				
Perfluorononanoic acid (PENA)	ua/ka				
Perfluorooctanesulfonic acid (PEOS)	ua/ka	44	0.88		
Perfluorooctanoic acid (PEOA)	ua/ka	33	0.66		
Perfluoropentanoic Acid (PEPeA)	ua/ka				
Perfluorotetradecanoic acid (PETA)	ua/ka				
Perfluorotridecanoic Acid (PETriA/PETrDA)	ua/ka				
Perfluoroundecanoic Acid (PFUnA)	ua/ka				
Aluminum	ma/ka			11000	
Arsenic	ma/ka	16	13	7.2	
Barium	ma/ka	400	350	110	
Beryllium	ma/ka	72	7.2	0.46	
Boron	ma/ka	4300	440	1.8	J
Cadmium	ma/ka	4.3	2.5	0.18	J
Calcium	ma/ka			1500	
Chromium, Total	ma/ka	180	30	11	
Cobalt	ma/ka			6.9	
Copper	ma/ka	270	50	21	
Iron	ma/ka			18000	
Lead	ma/ka	400	63	40	
Magnesium	ma/ka	100		2200	
Manganese	ma/ka	2000	1600	680	
Nickel	ma/ka	310	30	14	
Potassium	ma/ka			770	
Sodium	ma/ka			190	U
Vanadium	ma/ka			16	-
Zinc	ma/ka	10000	109	75	
Mercury	ma/ka	0.81	0.18	0.18	

Soil Cleanup Objectives (SCOs) from 6 NYCRR Part 375 Environmental Remediation Programs

Subjart 375-6, December 2006 U = Not detected above laboratory standard; UJ = Estimated and not detected at the value given;

J = estimated at the value given; J + = estimated biased high at the value given

N = normal sample; FD = field duplicate; SO = soil

mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram

Value exceeds the NYCRR Unrestricted Use SCOs





APPENDIX A BORING LOGS

The following logs utilize Burmeister soil classification system. For this system component percentages range from "trace" to "and"; grain sizes of coarse-grained components range from "fine" to "coarse". The symbols (+) and (-) to indicate the description is one the upper or lower end of the description range, respectively. For example, trace (+) indicates that the component is closer to 10% than it is to 1%; and a fine (-) grained Gravel is closer to a No. 10 sieve than to 1inch.

Identifying terms for clay-soils are given on a significant plasticity basis. Since the clay and silt components cannot be separated for identification purposes, the identifying soil names for the combined silt-clay components are coupled directly together and are treated as one soil material finer than the No. 200 sieve with names defined on a plasticity basis (Burmeister 1951). Non-plastic is defined as SILT, slight plasticity is defined as Clayey SILT, low plasticity is defined as SILT and CLAY, medium plasticity is defined as CLAY and SILT, high plasticity is defined as Silty CLAY, and very high plasticity is defined as CLAY. Due to slight differences in definitions and plasticity limits, high plasticity clays as typically defined by USCS would include CLAY and SILT, Silty CLAY, and CLAY, and low plasticity clays as typically defined by the USCS would include SILT, Clayey SILT, and SILT and CLAY.

Clier	nt: NYSDEC		Site Location: Corning, NY							BOF	BOREHOLE ID: HGE-01-01			
Proje	ect: Corning Area Wide Study		Weathe	er:						STA	ART DATE: 08/21/2024 1	5:00		
Regi	on: Corning, NY		Job #: 4	1530	71					FIN	ISH DATE: 08/21/2024 1	5:45		
Site:	Hugh Gregg Elementary		DB ID:			1	-			PAC	GE 1 of 1	1		
Depth (ft)	STR/ DE	ATIGRAPHIC SCRIPTION	MATEDIAL TVDE	SAMPI F TYPF	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)		COMMENTS AND MONITORING WELL NOTES	Depth (ft)		
- 0 	dry, brown medium to fine SAND, some (-) to little (+) S (sub-rounded), abundant roots, 2 small glass shards dry, brown coarse to fine SAND, little (+) Silt, little (-) o	silt, trace (-) medium to fine Gravel present in top 6 inches [SP] coarse to fine Gravel (subrounded)) [SP]						2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K K K K K K K K K K K K K K K K K K K			
- - - - - - - - - - - - - - - - - - -												- - - - - - - - - - - - - - - - - - -		
- - - - - - - - - - - - - - - - - - -	moist, tan brown Clayey SILT, trace medium to fine S present (most likely fell down from higher in hole); ru	and, trace fine gravel, piece of gla sty nail present [ML]	ss	но	c 0	-	_	100	0		BORING BACKFILLED WITH CLEAN CUTTINGS AND TOPPED WITH GRASS SOD	- 2		
	moist, dark reddish brown Clayey SILT, trace (+) med ∖ Gravel (subrounded) [ML] BOREHOLE TD @ 4 ET BGS	ium to fine Sand, trace medium to	fine											
- - - - - - - - - - - - - - - - - - -												- - - - - - - - - - - - - - - - - - -		
		CONTRACTOR: ATL												
1	PARSONS	DKILLEK: B. Drake	EQUIPMENT: Hand Auger											
	•			METHOD: Hand Core (HC)						BUKEHULE DIA.: 3 IN				

Clier	lient: NYSDEC			Site Location: Corning, NY B							BOREHOLE ID: HGE-01-02			
Proje	ect: Corning Area Wide Study		Weat	ther:							5	START DATE: 08/22/2024 07:37		
Regi	on: Corning, NY		Job #	<i>‡</i> : 45	307	'1					F	INIS	SH DATE: 08/22/2024 0	8:15
Site:	Hugh Gregg Elementary		DB II	D:							F	PAG	E 1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION		MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, brown medium to fine SAND, some Silt, trace me roots; 0.7 PPM [SM] dry, brown medium to fine SAND, some Silt, trace co (rounded); small building brick fragment [SM] dry, tan brown SILT, little medium to fine Sand, trace (PPM [ML] BORHOLE TD @ 4 FT BGS	edium to fine Gravel (rounded); abu arse to fine Gravel, trace Cobble (-) -) medium to fine Gravel (rounded);	1.5		HC	1			100	1.5	2 22 22 22 22 22 22 22 22 22 22 22 22 2		BACKFILLED WITH CLEAN SOIL CUTTINGS	- 0
F 5														5
Ť		CONTRACTOR: ATL					•		·					
	PARSONS	DRILLER: B. Drake	EQ	UIPN	/EN	IT:	Hand Auge	er						
		OVERSIGHT: J. Moffitt	ME	METHOD: Hand Core (HC)					BOREHOLE DIA.: 3 in					

Clier	ent: NYSDEC			Site Location: Corning, NY								BOREHOLE ID: HGE-01-03		
Proje	ect: Corning Area Wide Study		Weather							S	START DATE: 08/22/2024 08:18			
Regi	ion: Corning, NY		Job #: 45	5307	'1					FI	NIS	SH DATE: 08/22/2024 0	8:55	
Site:	Hugh Gregg Elementary		DB ID:					1 1		P	٩G	E 1 of 1		
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)	
- 0 	dry, brown coarse to fine SAND, some (-) to little (+) S (sub-rounded); 0.9 PPM [SM] dry fill layer: ash, slag; any soil present is gray coarse	ilt, trace (+) medium to fine Gravel		· · · · · · · · · · · · · · · · · · ·					-	42 42 42 43 44	7 50 50 50 50 50 50 5			
- - - - - - - - - - - - - - - - - - -	dry, tan brown SILT, little (-) medium (-) to fine Sand,	trace (-) fine Gravel; 0.6 PPM [ML]											- - - - - - - - - - - - - - - - - -	
				нс	1	-	_	100	1.4			BOREHOLE BACKFILLED WITH CLEAN SOIL CUTTINGS		
													-3	
-4 - - - - - - - - - - - - - - - - - -	BOREHOLE TD @ 4 FT BGS									•	4 			
		CONTRACTOR: ATL												
	PARSONS	DRILLER: B. Drake		MEN יחר	IT: Hen	Hand Auge	er C)						in	
	F			יטר.	ndl		0)					DUREHULE DIA.: 31	11	

Clien	nt: NYSDEC				Site Location: Corning, NY							BOREHOLE ID: HGE-01-04			
Proje	ect: Corning Area Wide Study		Weather	:						ST	START DATE: 08/22/2024 09:15				
Regi	on: Corning, NY		Job #: 4	5307	71					FIN	IS	H DATE: 08/22/2024 0	9:52		
Site:	Hugh Gregg Elementary		DB ID:			1				PA	GE	1 of 1			
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)		
- 0 	dry, brown coarse to fine SAND, little (+) Silt, trace me abundant roots; 1.7PPM [SP] dry, brown coarse to fine SAND, little Silt, little (-) coar	dium to fine Gravel (subrounded); se to fine Gravel (sub-rounded); 1.1	PPM						2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	+ K9 K9 K9 K9 K9 K9 K9	66666666		- 0		
	[SP]	. "			1			100	17.						
	dry, tan brown SILT, little (+) medium to fine Sand, tra (subrounded); 1.0 PPM [ML]	ace coarse to fine Gravel, trace Col	bble			-	_		1.7			BOREHOLE BACKFILLED WITH CLEAN SOIL CUTTINGS			
- - - - - - - - - - - - - - - - - - -													- - - - - - - - - - - - - - - - - - -		
 	BOREHOLE TD @ 4 FT BGS														
		CONTRACTOR: ATL			<u>.</u>	Hand Arre									
1	PARSONS	UKILLEK: B. Urake		ועוב∿ יחר	<u>и I :</u> Наг	Hand Auge	er C)						in		
	F			JD.	ı ial		0)					DONEHOLE DIA 3			

Clien	t: NYSDEC		Site Loca	tion	i: Co	orning, N	(В	OR	EHOLE ID: HGE-01-05	
Proje	ect: Corning Area Wide Study		Weather:							S	TAF	RT DATE: 08/22/2024 10):20
Regi	on: Corning, NY		Job #: 45	307	'1					F	INIS	SH DATE: 08/22/2024 11	1:35
Site:	Hugh Gregg Elementary		DB ID:							P	AG	E 1 of 1	1
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, brown coarse to fine SAND, some (-) to little (+) Si (subrounded) [SM] dry, brown, coarse to fine SAND, little Silt, little coars trace (-) Cobbles; layer of formed glass (cullet) and ground surface [SP]	ilt, trace (-) medium to fine Gravel e to fine Gravel (rounded to subrou ceramic from 31 to 32 inches below	nded),	НС	1			100	0	E 425 425 425 425 4		BORING BACKFILLED WITH CLEAN SOIL CUTTINGS	- 0
	BORING TD @ 4 FT BGS												
- - - - - - 5													- - - - - - - - - - - - - - - - - - - -
1		CONTRACTOR: ATL	FOUID		IT.	Hand Aug)r						
1	PARSUNS	OVERSIGHT: J. Moffitt	METHO	יובוע D:	Han	nd Core (H	2) 2)					BOREHOLE DIA: 3	
L	r			2.			-1						

Clien	t: NYSDEC		Site Loca	ition	: Co	orning, N	ſ			BC	DRE	HOLE ID: HGE-02-01	
Proje	ct: Corning Area Wide Study		Weather:							ST	AR	T DATE: 08/19/2024 1	5:00
Regi	on: Corning, NY		Job #: 45	307	'1					FII	NIS	H DATE: 08/19/2024 1	7:00
Site:	Hugh Gregg Elementary		DB ID:							PA	١GE	1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, brown coarse to fine SAND, some (-) Silt, little me rounded) [SM] dry, brown coarse to fine SAND, some (-) Silt, little co Cobbles (rounded) [SP] dry, brown coarse to fine SAND and coarse to fine Gr (rounded); piece of clay pipe @2.5 ft bgs [SP] BORING TD @ 3.4 FT BGS	dium to fine Gravel (subrounded to parse to fine Gravel (rounded), little		SAM		-		100	0 0			BOREHOLE REFUSAL AT 3.4 FT BGS. BACKFILLED WITH CLEAN CUTTINGS	
<u>5</u>													Γ5
		DRILLER: B. Drake	EQUIP	MEN	IT:	Hand Aug	ər						
1		OVERSIGHT: J. Moffitt	METHO)D:	Han	nd Core (H	C)					BOREHOLE DIA.: 3	in
L	r			2.			-1						

Clien	t: NYSDEC		Site Lo	ocat	tion	: Co	orning, N	Y			E	BOR	EHOLE ID: HGE-02-02	
Proje	ect: Corning Area Wide Study		Weath	ner:							S	STAF	RT DATE: 08/20/2024 0	7:28
Regi	on: Corning, NY		Job #:	45	307	1					F	INIS	SH DATE: 08/20/2024 0	9:45
Site:	Hugh Gregg Elementary		DB ID	:							F	AG	E 1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION		MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
- 0	dry, brown coarse to fine SAND, some (-) Silt, little (+) Cobble [SM] dry, brown coarse to fine SAND, some coarse to fine little Silt, grading to little (+) Gravel; orange brick frag BOREHOLE TD @ 4 FT BGS	coarse to fine Gravel (rounded), trad	inded), P]		HC	1			100	0	5 42 43 43 43 44		BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	- 0
5		CONTRACTOR: ATI						<u> </u>	I					5
1		DRILLER: B. Drake	EQL	JIPN	1EN	T:	Hand Aug	er						
L		OVERSIGHT: J. Moffitt	MET	ΉО	D: I	Han	nd Core (H	C)					BOREHOLE DIA.: 3	in
		·					•	,					· · ·	

Clien	It: NYSDEC		Site	Loca	tion	: Co	orning, N	Y			B	OR	EHOLE ID: HGE-02-03	
Proje	ect: Corning Area Wide Study		Wea	ther:							S	TAF	RT DATE: 08/20/2024 0	9:55
Regi	on: Corning, NY		Job #	# : 45	307	'1					F	NIS	SH DATE: 08/20/2024 1	1:10
Site:	Hugh Gregg Elementary		DB I	D:			-				P	AG	E 1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION		MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, dark brown coarse to fine SAND, some Silt, little dry, brown coarse to fine SAND, some (-) Silt, little (+) increasing @ 3.25 FT BGS to little (+) (rounded), Co BOREHOLE TD @ 4 FT BGS	medium (-) to fine Gavel (rounded)	e s [SP]		HC	1			100	0			BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	- 0
	PARSONS	DRILLER: B. Drake	EC		/IEN	IT: Har	Hand Auge	er						in
L	7				ט.	1 Iai		<u>)</u>					DONLINUL DIA 3	

Clier	it: NYSDEC		Site Loca	atior	n: C	orning, N`	Y			BO	REF	IOLE ID: HGE-02-04	
Proje	ect: Corning Area Wide Study		Weather							ST	ART	DATE: 08/20/2024 1	1:18
Regi	on: Corning, NY		Job #: 45	5307	71					FIN	IISH	DATE: 08/20/2024 1	3:25
Site:	Hugh Gregg Elementary		DB ID:			1				PA	GE	1 of 1	1
Depth (ft)	STR. DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
- 0 - - - - -	dry, brown coarse to fine SAND, some Silt, little mediu roots [SM]	m to fine Gravel (subrounded); abur	ndant	· · ·					20 20 20 20 20 20 20 20		299999999		- 0 - - - - -
	dry, tannish brown coarse to fine SAND, little (+) coar Cobble (subrounded); small building brick fragments	se to fine Gravel (flat, subrounded) present between 1.25 and 2 FT BG	i, trace SS [SP]	HC	1	-	_	100	0		в 3. М	OREHOLE REFUSAL @ .75 FT BGS; BACKFILLED VITH CLEAN CUTTINGS	
	moist, brown coarse to fine SAND, some Silt, little (+) BOREHOLE TD @ 3.75 FT BGS	coarse fine Gravel, trace Cobble [S	5M]										
													- - - 5
		CONTRACTOR: ATL				I							
	PARSONS	DRILLER: B. Drake	EQUIP	MEN	IT:	Hand Aug	er	_			_		
	F)D:	Har	nd Core (H	C)					BOREHOLE DIA.: 3	in		

Clier	t: NYSDEC		Site Lo	catic	on: C	Corning, N	Y			BOF	REHOLE ID: HGE-02-05	
Proje	ect: Corning Area Wide Study		Weathe	er:						STA	ART DATE: 08/20/2024 1	3:14
Regi	on: Corning, NY		Job #: 4	4530)71					FIN	ISH DATE: 08/20/2024 1	4:30
Site:	Hugh Gregg Elementary		DB ID:							PAC	GE 1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATEDIAL TVDE		RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)		COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, dark brown coarse to fine SAND, little (+) Silt, little Cobbles (rounded); small metal and historic glass f dry, tan brown coarse to fine SAND and Silt, little to litt trace Cobbles (rounded) [SM]	e coarse to fine Gravel (rounded), tr ragments present near 2 FT BGS [s le (+) coarse to fine Gravel (subrour	ace (-)		C 1	-	_	100	5 45 45 45 45 45 45 4	0 5 0 5 0 5 0 5 0 5 0 5 0 4	BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	- 0
	dry, dark tan-brown coarse to fine SAND, little (+) Silt, round), trace coarse to fine Gravel (subround) [SP] BOREHOLE TD @ 4 FT BGS	little coarse to fine Gravel (subround										
Ť		CONTRACTOR: ATL	I				1		1		1	
	PARSONS	DRILLER: B. Drake			NT:	Hand Aug	er					in
	•			IUU:	. ⊓a	inu core (H	0)				DUREHULE DIA.: 3	111

Clier	it: NYSDEC		Site Loca	atior	n: C	orning, N	ſ			BC	DRE	EHOLE ID: HGE-03-01	
Proje	ect: Corning Area Wide Study		Weather	:						ST	ĀF	RT DATE: 08/20/2024 14	4:52
Regi	on: Corning, NY		Job #: 4	5307	71					FII	NIS	H DATE: 08/20/2024 15	5:55
Site:	Hugh Gregg Elementary		DB ID:			1				PA	١GE	E 1 of 1	1
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
	dry, dark brown medium to fine SAND, some Silt, trac abundant roots [SM] dry, tannish brown coarse to fine SAND, some (-) Silt, Cobble (rounded); red brick present from unknown	e medium to fine Gravel (subrounded little (+) coarse to fine Gravel, trace depth (found in cuttings) [SM]		HC				100	0			REFUSAL DUE TO COBBLES; BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	
		CONTRACTOR: ATL	EOUID		<u>лт.</u>	Hand Aver	or						
	PARSONS	DKILLER: B. Drake		יחר יחר∙	<u>۱۱۷</u> ۱۹۷		C) Fl						n
	•			JU.	i iai		<u>, </u>					DONCHOLE DIA 31	

Clien	t: NYSDEC		Site Lo	ocati	ion:	: Co	orning, N\	(BO	REHOLE	ID: HGE-03-02	
Proje	ect: Corning Area Wide Study		Weath	er:							STA	ART DATE	E: 08/21/2024 07	7:30
Regi	on: Corning, NY		Job #:	453	307 ⁻	1					FIN	ISH DATE	E: 08/21/2024 10):08
Site:	Hugh Gregg Elementary		DB ID:								PAC	GE 1 of	1	
Depth (ft)	STR. DE	ATIGRAPHIC SCRIPTION		MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)		CON MONI ⁻	IMENTS AND FORING WELL NOTES	Depth (ft)
- 0	dry, brown coarse to fine SAND, some (-) to little (+) Si (subrounded); fill present: small glass shard [SM]	It, little (-) coarse to fine Gravel								4 24 24 24 24 24 24 24 24 24		2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0		- 0
	dry, brown coarse to fine SAND, some (-) Silt, little subrounded), trace Cobble (angular and subrou BGS; building brick fragments present from 1-1.25 F	e (+) coarse to fine Gravel (angula nded); large square rock @ 1. T BGS [SM]	r and 9 FT		нс	1	-	_	100	0		REFUSA MULTIPL BORING: WITH CL	L @ 2.3 FT BGS IN E ATTEMPTS; BACKFILLED EAN CUTTINGS	
	BOREHOLE TD @ 2.3 FT BGS		i.	<u> </u>										
- - - - - - - - - - - - - - - - - - -														
- - 5	CONTRACTOR: ATL DRILLER: B. Drake EQUIPMENT: Hand Aug OVERSIGHT: J. Moffitt METHOD: Hand Core (Hand Core (Hand Core))											BOF	REHOLE DIA.: 3 i	r 5

Clien	t: NYSDEC		Site Loca	ition	n: Co	orning, N	Y			B	ORE	HOLE ID: HGE-03-03	
Proje	ect: Corning Area Wide Study		Weather							S	ΓAR	T DATE: 08/21/2024 1	0:25
Regi	on: Corning, NY		Job #: 45	307	'1					FI	NIS	H DATE: 08/21/2024 1	1:30
Site:	Hugh Gregg Elementary		DB ID:							P	٩GE	1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			Comments and Monitoring Well Notes	Depth (ft)
1 = 0	dry, brown coarse to fine SAND, little (+) Silt, little coar 0.5 FT BGS [SP] dry, brown coarse to fine SAND, little (+) to some (-) or subangular), little SIIt, trace (+) Cobble (rounded); fi and black coal [SP] dry, tan brown coarse to fine SAND, little (+) to some (subangular), little Silt, trace (+) Cobble (rounded) [S	rse to fine Gravel (subrounded); nail parse to fine Gravel (subrounded to Il present: smalll brick fragments -) coarse to fine Gravel (subrounded P]		HC	1			100	0			BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	- 0
	BOULHULE ID (6 4 FI DOS												
⊢ ⊃		CONTRACTOR: ATI	I		I		1	I					1 0
	PARSONS	DRILLER: B. Drake	EQUIPI	MEN	IT:	Hand Auge	er						
		OVERSIGHT: J. Moffitt	METHO	D:	Har	nd Core (H	C)					BOREHOLE DIA.: 3	in

Clien	t: NYSDEC		Site Loca	tion	: Co	orning, N	(BOF	REHOLE ID: HGE-03-04	
Proje	ct: Corning Area Wide Study		Weather:							STA	ART DATE: 08/21/2024	12:00
Regi	on: Corning, NY		Job #: 45	307	1					FIN	ISH DATE: 08/21/2024 '	12:45
Site:	Hugh Gregg Elementary		DB ID:							PAC	GE 1 of 1	
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)		COMMENTS AND MONITORING WELL NOTES	Depth (ft)
- 0	dry, brown coarse to fine SAND, some Silt, trace media roots; small amount of ash present [SM] dry, brown coarse to fine SAND, some Silt, trace media	um to fine Gravel (rounded); abundn um to fine Gravel (rounded); large pi	ieces						2 29 29 29 29 29 29 29	0 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8		
- - - - - - - - - - - -	of stone foundation and large amount of ash preser	to fine Gravel (angular), little Silt;										- - - - - - - - - - - - -
	mostly fill: abundant ash and stone debris [SP]				1			100				
				HC .	1	_	-	100	0		BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	
	dry, brown Clayey SILT, little (+) medium to fine Sand, [ML]	little (-) medium to fine Gravel (roun	nded)									
	BOREHOLE TD @ 4 FT BGS											
		CONTRACTOR: ATL	FUIID		Τ·	Hand Aug	r					
	PARSUNS	OVERSIGHT: J. Moffitt	METHO	D: 1	Han	nd Core (H) C)				BOREHOLE DIA: 3	in
L	*			- • •			-1					

Clien	t: NYSDEC		Site Loca	atior	n: C	orning, N	Y			B	ORE	HOLE ID: HGE-03-05	
Proje	ect: Corning Area Wide Study		Weather							S	TAR	T DATE: 08/21/2024 1	3:10
Regi	on: Corning, NY		Job #: 45	5307	71					F	NIS	H DATE: 08/21/2024 1	3:45
Site:	Hugh Gregg Elementary		DB ID:			1				P	AGE	1 of 1	1
Depth (ft)	STR DE	ATIGRAPHIC SCRIPTION	MATERIAL TYPE	SAMPLE TYPE	RUN NUMBER	BLOW COUNTS 1/2/3/4	RQD	RECOVERY %	PID (ppm)			COMMENTS AND MONITORING WELL NOTES	Depth (ft)
- 0	dry, brown coarse to fine SAND, little (+) Silt, little coar brick, ash, slag [SP] dry, gray coarse to fine SAND, some coarse to fine Gra	se to fine Gravel (angular); abundar avel (angular); abundant fill: ash, briv	nt fill:							0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	00000000		- 0
	slag [SP]												
2				HC	1	_	_	100	0			BOREHOLE BACKFILLED WITH CLEAN CUTTINGS	-2
- - - - - - - - - - - - - - - - -	dry, brown and gray Clayey SILT, some (-) medium to [ML] BOREHOLE TD @ 4 FT BGS	fine Sand; abundant fill: ash, slag, b	rick										- - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -													- - - - - - - - - - - - - - - - - - -
		CONTRACTOR: ATL											
	PARSONS	DRILLER: B. Drake	EQUIP	MEN	<u>IT:</u>	Hand Aug	er						
	r	UVERSIGHT: J. Moffitt	METHO	:ענ	Har	nd Core (H	C)					BUREHOLE DIA.: 3 i	IN



APPENDIX B PHOTOGRAPHIC LOG



Appendix B

The photos below document the soils and extent of ash, brick, and/or glass (ABG) at the Hugh Gregg Elementary School investigated during the Area Wide Study. Archive glass samples that were collected during the Area Wide Study are shown as well. The work was conducted in 2024.



HGE-01-01 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Small historic glass (non-ABG) shards were encountered in this interval.





HGE-01-01 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.




Image of soils from boring location HGE-01-01 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Small historic glass shards (non-ABG) and one rusty nail were encountered in this interval.





Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.





Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Small building brick fragments (non-ABG) were recovered from this interval.







Image of soils from boring location HGE-01-02 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.





Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.





Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. A layer of ash and slag was encountered in this interval from 4 to 19 inches deep.





Image of soils from boring location HGE-01-03 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-04 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was observed in this interval.





Image of soils from boring location HGE-01-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. A layer of glass consistent with ABG characteristics was encountered from 31 to 32 inches deep in this interval containing formed glass and ceramic shards.





Image of ceramic shards collected as an archive sample from the 2 to 4-foot interval of HGE-01-05.





Image of glass cullet collected as an archive sample from the 2 to 4-foot interval of HGE-01-05.



HGE-02-01 (Hugh Gregg Elementary)

Photo not collected for 0-0.5 foot depth interval of HGE-02-01. No ash, brick, or glass (ABG) waste was encountered in this interval.

HGE-02-01 (Hugh Gregg Elementary)



Image of soils from boring location HGE-02-01 (Hugh Gregg Elementary). The pile of soil contains soil collected from the 0.5 to 2-foot interval. No ash, brick, or glass (ABG) was encountered in this interval.



1094 Great Ethornada HAE 8/14/24 TUP

HGE-02-01 (Hugh Gregg Elementary)



Image of soils from boring location HGE-02-01 (Hugh Gregg Elementary). The pile of soil contains soil collected from the 2 to 3.4-foot interval. This interval contained piece of clay pipe. No ash, brick, or glass (ABG) was encountered in this interval.



HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-02 (Hugh Gregg Elementary). The pile in the image contains soil collected from the 0.0 to 0.5-foot interval. No ABG was encountered in this interval.





HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02 -02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.





HGE-02-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-02 (Hugh Gregg Elementary). The pile of soil in the center right portion of the image contains soil collected from the 2 to 4-foot interval. Small orange brick fragments (non-ABG) were found from 2.25 to 2.5 feet in this interval.





HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HE-SS-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.





HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.





HGE-02-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.





HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.





HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the center left portion of the image contains soil collected from the 0.5 to 2-foot interval. Small brick fragments (non-ABG) were encountered below 1.25 feet in this interval.





HGE-02-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-04 (Hugh Gregg Elementary). The pile of soil in the center left portion of the image contains soil collected from the 2 to 2-foot interval. Small brick fragments (non-ABG) were encountered below 1.25 feet in this interval.





HGE-02-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-05 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Small metal pieces and a historic glass fragment (non-ABG) were found at the bottom of this interval.





HGE-02-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-02-05 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2-4-foot interval. No ABG was encountered in this interval.





HGE-03-01 (Hugh Gregg Elementary)

Image of soils from a boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. No ABG was encountered in this interval.





HGE-03-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. No ABG was encountered in this interval.





HGE-03-01 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-01 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 3.75-foot interval. Trace brick fragments (non-ABG) were identified in this interval.





HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0-0.5-foot interval. Small historic glass shards (non-ABG) were identified in this interval.





HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. A small historic glass shard, a large square rock, and building brick fragments (non-ABG) were encountered in this interval.





HGE-03-02 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-02 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 2.3-foot interval. No ABG was encountered in this interval





HGE-03-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. A nail was noted in this interval. No ABG was encountered in this interval.





HGE-03-03 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Trace coal and small brick fragments (non-ABG) were encountered.




HGE-03-03 (Hugh Gregg Elementary School)

Image of soils from boring location HGE-03-03 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. No ABG was encountered in this interval.





HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.0 to 0.5-foot interval. Trace ash (non-ABG) is present in this interval.





HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Abundant ash, stone foundation pieces, and stone debris (non-ABG) were identified in this interval.





HGE-03-04 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-04 (Hugh Gregg Elementary). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Trace ash and brick fragments (non-ABG) were identified at the top of this interval.



HGE-03-05 (Hugh Gregg Elementary)



Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0 to 0.5-foot interval. Ash, brick, and slag (non-ABG) were encountered in this interval.





HGE-03-05 (Hugh Gregg Elementary)

Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 0.5 to 2-foot interval. Ash, brick, and slag (non-ABG) were encountered in this interval.





HGE-03-05 (Hugh Gregg Elementary) Continued

Image of soils from boring location HGE-03-05 (Hugh Gregg Elementary School). The pile of soil in the image contains soil collected from the 2 to 4-foot interval. Ash, brick, and slag were (non-ABG) encountered in this interval.



APPENDIX C ARCHIVE SAMPLE LOG

PARSONS ARCHIVE SAMPLE RECORD

SITE NAME: SAMPLE ID: SAMPLE LOCATION: DATE COLLECTED:	Area Wide Study AWS-082224-01-AG HGE-01-05 between 2.6 and 2.7 feet below ground surface; (42.1533053, -77.0635588) 22-Aug-2024
ARCHIVE SAMPLE DESCRIPTION	
APPROX. DIMENSIONS (inches):	1.25 X 0.9 X 0.8
SHAPE:	Irregular
MATERIAL TYPE:	Cullet
COLOR:	Clear
NUMBER OF PIECES:	2
OPACITY:	Transparent
FRACTURE/ANGULARITY:	Both pieces are broken on multiple sides
UV/FLUORESCENCE TESTING:	Does not fluoresce under UV light
OTHER:	

UV/Detail Photo

Sample Photo

Output
PARSONS ARCHIVE SAMPLE RECORD

SITE NAME:	Area Wide Study
SAMPLE ID:	AWS-082224-02-AG
SAMPLE LOCATION:	HGE-01-05 between 2.6 and 2.7 feet below ground surface; (42.1533114, -77.0636659)
DATE COLLECTED:	22-Aug-2024
ARCHIVE SAMPLE DESCRIPTION	
APPROX. DIMENSIONS (inches):	1.25 X 0.75 X 0.3
SHAPE:	Irregular
MATERIAL TYPE:	Ceramic shards
COLOR:	White
NUMBER OF PIECES:	2
OPACITY:	Opaque
FRACTURE/ANGULARITY:	Both pieces are fractured
UV/FLUORESCENCE TESTING:	Does not fluoresce under UV light
OTHER:	

Sample Photo



UV/Detail Photo



COMMENTS / MISCELLANEOUS:



APPENDIX D CAMP DATA

TrakPro Version 4.70 ASCII Data File

Model:		DustTrak II	- Downwi	DustTrak II - Downwind		
Model Numb	er:	8530				
Serial Numbe	er:	853	30123601			
Test ID:			1			
Test Abbrevia	ition:	MANUAL_(001			
Start Date:		8	/19/2024			
Start Time:			14:51:12			
Duration (dd:	hh:mm:ss):	0:02:45:00				
Log Interval (I	mm:ss):		15:00			
Number of po	oints:		11			
Notes:						
Statistics		Channel:		AEROSOL		
		Units:		mg/m^3		
		Average:			0.001	
		Minimum:			0	
		Time of Mi	nimum:		15:06:12	
		Date of Mir	nimum:		8/19/2024	
		Maximum:			0.001	
		Time of Ma	iximum:		15:51:12	
		Date of Ma	ximum:		8/19/2024	
Calibration		Sensor:		AEROSOL		
		Cal. date			3/11/2024	
Date		Time		AEROSOL		
MM/dd/yyyy		hh:mm:ss		mg/m^3		
	8/19/2024		15:06:12		0	
	8/19/2024		15:21:12		0	
	8/19/2024		15:36:12		0	
	8/19/2024		15:51:12		0.001	
	8/19/2024		16:06:12		0	
	8/19/2024		16:21:12		0.001	
	8/19/2024		16:36:12		0	
	8/19/2024		16:51:12		0.001	
	8/19/2024		17:06:12		0.001	
	8/19/2024		17:21:12		0.001	
	8/19/2024		17:36:12		0.001	

Model:	DustTrak II - Downwind			
Model Number:	8530			
Serial Number:	8530123601			
Test ID:	2			
Test Abbreviation:	MANUAL_002			
Start Date:	8/20/2024			
Start Time:	7:24:07			
Duration (dd:hh:mm:ss)	: 0:08:45:00			
Log Interval (mm:ss):	15:00			
Number of points:	35			
Notes:				
Statistics	Channel:	AEROSOL		
	Units:	mg/m^3		
	Average:		0.002	
	Minimum:		0.002	
	Time of Minimum:		7:54:07	
	Date of Minimum:		8/20/2024	
	Maximum:		0.003	
	Time of Maximum:		7:39:07	
	Date of Maximum:		8/20/2024	
Oslihustisu	0			
Calibration	Sensor:	AEROSOL	2/11/2024	
	Cal. date		3/11/2024	
Data	Time			
MM/dd/www	hh:mm:ss	mg/m^3		
8/20/2024	7:39:07	116/11 0	0.003	
8/20/2024	7:54:07		0.002	
8/20/2024	8:09:07		0.002	
8/20/2024	8:24:07		0.002	
8/20/2024	8:39:07		0.002	
8/20/2024	8:54:07		0.002	
8/20/2024	9:09:07		0.002	
8/20/2024	9:24:07		0.002	
8/20/2024	9:39:07		0.002	
8/20/2024	9:54:07		0.002	
8/20/2024	10:09:07		0.002	
8/20/2024	10:24:07		0.002	
8/20/2024	10:39:07		0.002	
8/20/2024	10:54:07		0.003	
8/20/2024	11:09:07		0.002	
8/20/2024	11:24:07		0.002	
8/20/2024	11:39:07		0.002	
8/20/2024	11.04.07		0.003	
8/20/202-	12:00:07		0.002	
8/20/2024	12:24:07		0.002	
8/20/2024	12:54:07		0.003	
8/20/2024	13:09:07		0.002	
8/20/2024	13:24:07		0.002	
8/20/2024	13:39:07		0.002	
8/20/2024	13:54:07		0.002	
8/20/2024	14:09:07		0.002	
8/20/2024	14:24:07		0.003	
8/20/2024	14:39:07		0.003	
8/20/2024	14:54:07		0.003	
8/20/2024	15:09:07		0.002	
8/20/2024	15:24:07		0.002	
8/20/2024	15:39:07		0.002	
8/20/2024	15:54:07		0.002	
8/20/2024	16:09:07		0.002	

Model:		DustTrak II - Downwind		
Model Number:		8530		
Serial Number:		8530123601		
Test ID:		3		
Test Abbrevia	ation:	MANUAL_003		
Start Date:		8/21/2024		
Start Time:		7:22:53		
Duration (dd:	hh:mm:ss):	0:06:15:00		
Log Interval (I	mm:ss):	15:00		
Number of po	oints:	25		
Notes:				
Statistics		Channel:		
Statistics		Unite:	mg/m^3	
			ing/iii S	0.007
		Minimum.		0.007
		Time of Minimum		9.22.53
		Date of Minimum:		8/21/2024
		Maximum:		0 009
		Time of Maximum		13.07.53
		Date of Maximum:		8/21/2024
		Date of Flammann		0/22/2021
Calibration		Sensor:	AEROSOL	
		Cal. date		3/11/2024
Date		Time	AEROSOL	
MM/dd/yyyy		hh:mm:ss	mg/m^3	
	8/21/2024	7:37:53		0.008
	8/21/2024	7:52:53		0.008
	8/21/2024	8:07:53		0.008
	8/21/2024	8:22:53		0.007
	8/21/2024	8:37:53		0.007
	8/21/2024	8:52:53		0.007
	8/21/2024	9:07:53		0.007
	8/21/2024	9:22:53		0.006
	8/21/2024	9:37:53		0.007
	8/21/2024	9:52:53		0.007
	8/21/2024	10:07:53		0.007
	8/21/2024	10:22:53		0.006
	8/21/2024	10:37:53		0.007
	8/21/2024	10:52:53		0.007
	8/21/2024	11:07:53		0.007
	8/21/2024	11:22:53		0.007
	8/21/2024	11:37:53		0.007
	8/21/2024	11:52:53		0.007
	8/21/2024	12:07:53		0.007
	8/21/2024	12:22:53		0.007
	8/21/2024	12:37:53		0.008
	8/21/2024	12:52:53		0.008
	8/21/2024	13:07:53		0.009
	0/21/2024	13:22:53		0.009
	8/21/2024	13:37:53		0.008

Model:	DustTrak II - Downwind		
Model Number:	8530		
Serial Number:	8530123601		
Test ID:	4		
Test Abbreviation:	MANUAL_004		
Start Date:	8/21/2024		
Start Time:	14:42:38		
Duration (dd:hh:mm:ss):	0:01:00:00		
Log Interval (mm:ss):	15:00		
Number of points:	4		
Notes:			
Statistics	Channel:	AEROSOL	
	Units:	mg/m^3	
	Average:		0.009
	Minimum:		0.008
	Time of Minimum:		14:57:38
	Date of Minimum:		8/21/2024
	Maximum:		0.009
	Time of Maximum:		15:12:38
	Date of Maximum:		8/21/2024
Calibration	Sensor:	AEROSOL	
	Cal. date		3/11/2024
Date	Time	AFROSOL	
MM/dd/www	hh:mm:ss	mg/m^3	
8/21/2024	14.57.38		0.008
8/21/2024	15:12:38		0.009
8/21/2024	15:27:38		0.008
8/21/2024	15:42:38		0.009

Model:		DustTrak II - Downwind		
Model Numb	er:	8530		
Serial Numbe	er:	8530123601		
Test ID:		5		
Test Abbrevia	ation:	MANUAL_005		
Start Date:		8/22/2024	8/22/2024	
Start Time:		7:30:36		
Duration (dd:	:hh:mm:ss):	0:04:00:00		
Log Interval (mm:ss):	15:00		
Number of po	pints:	16		
Notes:				
Statistics		Channel:	AEROSOL	
		Units:	mg/m^3	
		Average:		0.012
		Minimum:		0.011
		Time of Minimum:		8:15:36
		Date of Minimum:		8/22/2024
		Maximum:		0.012
		Time of Maximum:		7:45:36
		Date of Maximum:		8/22/2024
Calibration		Sensor:	AEROSOL	
		Cal. date		3/11/2024
Date		Time	AEROSOL	
MM/dd/yyyy		hh:mm:ss	mg/m^3	
	8/22/2024	7:45:36		0.012
	8/22/2024	8:00:36		0.012
	8/22/2024	8:15:36		0.011
	8/22/2024	8:30:36		0.012
	8/22/2024	8:45:36		0.011
	8/22/2024	9:00:36		0.011
	8/22/2024	9:15:36		0.012
	8/22/2024	9:30:36		0.012
	8/22/2024	9:45:36		0.011
	8/22/2024	10:00:36		0.012
	8/22/2024	10:15:36		0.011
	8/22/2024	10:30:36		0.011
	8/22/2024	10:45:36		0.011
	8/22/2024	11:00:36		0.011
	8/22/2024	11:15:36		0.012
	8/22/2024	11:30:36		0.012

24/08/15 12:45	****	****		
Summary	Summary			
Unit Name MiniRA Unit SN 592-91: Unit Firmw V2.22A	E 3000(PGM-7320) - E 2843	Downwind		
Running Mr Hygiene Datalog Mc Auto Diagnostic No Stop Reasc Power I	e Mode Down			
Site ID User ID	12345678 12345678			
Begin End Sample Pe Number of	8/15/2024 12:45 8/15/2024 12:45 60 0			
Sensor PID(ppr Sensor SN S02303 Measure Ty Avg; Ma Span Span 2 Low Alarm High Alarm Over Alarm STEL Alarm TWA Alarm Measurem Isobuty Calibration	n) 0100R6 x; Real 100 50 100 15000 25 10 lene 8/15/2024 12:37			
****	*****	*****		

Datalog

0 record.

_____ 24/08/19 14:55 Summary _____ Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A -----Running M Hygiene Mode Datalog Mc Auto Diagnostic No Stop Reasc Pause in Menu Mode _____ 12345678 12345678 Site ID User ID _____
 Begin
 8/19/2024 14:55

 End
 8/19/2024 14:55

 Sample Pe
 60

 Number of
 0
 _____ Sensor PID(ppm) Sensor SN S023030100R6 Measure Ty Avg; Max; Real 100 Span Span 2 1000 50 100 15000 Low Alarm High Alarm Over Alarm STEL Alarm 25 TWA Alarm 10 Measurem Isobutylene Calibration 8/15/2024 12:37 ******

Datalog

0 record.

24/08/19 14:56		
******	*****	*****
Summary		
Unit Name MiniRA	E 3000(PGM-7320)	- Downwind
Unit SN 592-91	2843	
Unit Firmw V2.22A		
Running McHygiene	e Mode	
Datalog Mc Auto		
Diagnostic No		
Stop Reast Power L	Jown	
Site ID	12345678	
User ID	12345678	
Begin	8/19/2024 14:56	
End	8/19/2024 17:43	
Sample Pe	900	
Number of	11	
Sensor PID(ppr	n)	
Sensor SN S02303	0100R6	
Measure I) Avg; Ma	x; Real	
Span Span	100	
Span 2	1000	
LOW Aldrin	50	
	15000	
STEL Alarm	15000	
TWA Alarm	10	
Measurem Isobuty	lene	
Calibration	8/15/2024 12:37	
Peak	0	
Min	0	
Average	0	

Datalog				
		PID(ppm)	PID(ppm)	PID(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	8/19/2024 15:11	0	0	0
2	8/19/2024 15:26	0	0	0
3	8/19/2024 15:41	0	0	0
4	8/19/2024 15:56	0	0	0
5	8/19/2024 16:11	0	0	0
6	8/19/2024 16:26	0	0	0
7	8/19/2024 16:41	0	0	0
8	8/19/2024 16:56	0	0	0
9	8/19/2024 17:11	0	0	0
10	8/19/2024 17:26	0	0	0
11	8/19/2024 17:41	0	0	0
Peak		0	0	0
Min		0	0	0
Average		0	0	0

TWA/STEL			
		PID(ppm)	PID(ppm)
Index	Date/Time	(TWA)	(STEL)
1	8/19/2024 15:11	0	0
2	8/19/2024 15:26	0	0
3	8/19/2024 15:41	0	0
4	8/19/2024 15:56	0	0
5	8/19/2024 16:11	0	0
6	8/19/2024 16:26	0	0
7	8/19/2024 16:41	0	0
8	8/19/2024 16:56	0	0
9	8/19/2024 17:11	0	0
10	8/19/2024 17:26	0	0
11	8/19/2024 17:41	0	0

_____ 24/08/20 07:01 Summary _____ Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A -----Running M Hygiene Mode Datalog Mc Auto Diagnostic No Stop Reasc Pause in Menu Mode _____ 12345678 12345678 Site ID User ID _____
 Begin
 8/20/20247:01

 End
 8/20/20247:01

 Sample Pe
 900

 Number of
 0
 -----Sensor PID(ppm) Sensor SN S023030100R6 Measure Ty Avg; Max; Real 100 Span Span 2 1000 50 100 15000 Low Alarm High Alarm Over Alarm STEL Alarm 25 TWA Alarm 10 Measurem Isobutylene Calibration 8/15/2024 12:37 ******

Datalog

0 record.

24/08/20 07:24 ************************************	*******	*****
Unit Name MiniRA Unit SN 592-91 Unit Firmw V2.22A	E 3000(PGM-7320) 2843 A	- Downwind
Running McHygien Datalog Mc Auto Diagnostic No Stop Reasc Power	e Mode Down	
Site ID	12345678	
User ID	12345678	
Begin	8/20/2024 7:24	
End	8/20/2024 16:18	
Sample Pe	900	
Number of	35	
Sensor PID(pp Sensor SN S02303 Measure T\ Avg: Ma	m) 30100R6 ax: Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	25	
TWA Alarm	10	
Measurem Isobuty	/lene	
Calibration	8/20/2024 7:04	
Peak	0.1	
Min	0	
Average	0.1	
-		

Datalog				
		PID(ppm)	ID(ppm) PID(ppm) PID(pp	
Index	Date/Time	(Avg)	(Max)	(Real)
1	8/20/2024 7:39	0	0	0
2	8/20/2024 7:54	0	0	0
3	8/20/2024 8:09	0	0	0
4	8/20/2024 8:24	0	0	0
5	8/20/2024 8:39	0	0	0
6	8/20/2024 8:54	0	0	0
7	8/20/2024 9:09	0	0	0
8	8/20/2024 9:24	0	0	0
9	8/20/2024 9:39	0	0	0
10	8/20/2024 9:54	0	0.1	0.1
11	8/20/2024 10:09	0.1	0.1	0.1
12	8/20/2024 10:24	0.1	0.1	0.1
13	8/20/2024 10:39	0.1	0.1	0.1
14	8/20/2024 10:54	0.1	0.1	0.1
15	8/20/2024 11:09	0.1	0.1	0.1
16	8/20/2024 11:24	0.1	0.1	0.1
17	8/20/2024 11:39	0.1	0.1	0.1
18	8/20/2024 11:54	0.1	0.1	0.1
19	8/20/2024 12:09	0.1	0.1	0.1
20	8/20/2024 12:24	0.1	0.1	0.1
21	8/20/2024 12:39	0.1	0.1	0.1
22	8/20/2024 12:54	0.1	0.1	0.1
23	8/20/2024 13:09	0.1	0.1	0.1
24	8/20/2024 13:24	0.1	0.1	0.1
25	8/20/2024 13:39	0.1	0.1	0.1
26	8/20/2024 13:54	0.1	0.1	0
27	8/20/2024 14:09	0.1	0.1	0.1
28	8/20/2024 14:24	0.1	0.1	0.1
29	8/20/2024 14:39	0.1	0.1	0.1
30	8/20/2024 14:54	0.1	0.1	0.1
31	8/20/2024 15:09	0.1	0.1	0.1
32	8/20/2024 15:24	0.1	0.1	0.1
33	8/20/2024 15:39	0.1	0.1	0
34	8/20/2024 15:54	0.1	0.1	0.1
35	8/20/2024 16:09	0.1	0.1	0
Peak		0.1	0.1	0.1
Min		0	0	0
Average		0.1	0.1	0.1

TWA/STEL			
		PID(ppm) PID(ppm)	
Index	Date/Time	(TWA)	(STEL)
1	8/20/2024 7:39	0	0
2	8/20/2024 7:54	0	0
3	8/20/2024 8:09	0	0
4	8/20/2024 8:24	0	0
5	8/20/2024 8:39	0	0
6	8/20/2024 8:54	0	0
7	8/20/2024 9:09	0	0
8	8/20/2024 9:24	0	0
9	8/20/2024 9:39	0	0
10	8/20/2024 9:54	0	0.1
11	8/20/2024 10:09	0	0.2
12	8/20/2024 10:24	0	0.2
13	8/20/2024 10:39	0	0.2
14	8/20/2024 10:54	0	0.2
15	8/20/2024 11:09	0	0.2
16	8/20/2024 11:24	0	0.2
17	8/20/2024 11:39	0	0.2
18	8/20/2024 11:54	0	0.2
19	8/20/2024 12:09	0	0.2
20	8/20/2024 12:24	0	0.2
21	8/20/2024 12:39	0	0.2
22	8/20/2024 12:54	0	0.2
23	8/20/2024 13:09	0	0.2
24	8/20/2024 13:24	0	0.2
25	8/20/2024 13:39	0.1	0.2
26	8/20/2024 13:54	0.1	0.1
27	8/20/2024 14:09	0.1	0.1
28	8/20/2024 14:24	0.1	0.2
29	8/20/2024 14:39	0.1	0.2
30	8/20/2024 14:54	0.1	0.2
31	8/20/2024 15:09	0.1	0.2
32	8/20/2024 15:24	0.1	0.2
33	8/20/2024 15:39	0.1	0.1
34	8/20/2024 15:54	0.1	0.1
35	8/20/2024 16:09	0.1	0.1

_____ 24/08/21 07:08 Summary _____ -----Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A -----Running M Hygiene Mode Datalog Mc Auto Diagnostic No Stop Reasc Pause in Menu Mode _____ 12345678 12345678 Site ID User ID _____
 Begin
 8/21/2024 7:08

 End
 8/21/2024 7:08

 Sample Pe
 900

 Number of
 0
 -----Sensor PID(ppm) Sensor SN S023030100R6 Measure Ty Avg; Max; Real 100 Span Span 2 1000 50 100 15000 Low Alarm High Alarm Over Alarm STEL Alarm 25 TWA Alarm 10 Measurem Isobutylene Calibration 8/20/2024 7:04 ******

Datalog

0 record.

24/08/21 07:28 ************************************	*****	*****
Unit Name MiniRA Unit SN 592-91 Unit Firmw V2.22A	E 3000(PGM-7320) 2843	- Downwind
Running McHygien Datalog Mc Auto Diagnostic No Stop Reasc Power	e Mode Down	
Site ID	12345678	
User ID	12345678	
Begin	8/21/2024 7:28	
End	8/21/2024 13:55	
Sample Pe	900	
Number of	25	
Sensor PID(pp Sensor SN S02303 Measure T\ Avg: Ma	m) 30100R6 ax: Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	25	
TWA Alarm	10	
Measurem Isobuty	/lene	
Calibration	8/21/2024 7:11	
Peak	0.2	
Min	0	
Average	0.1	

Datalog				
		PID(ppm)	PID(ppm)	PID(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	8/21/2024 7:43	0	0.1	0
2	8/21/2024 7:58	0	0	0
3	8 8/21/2024 8:13	0	0	0
4	8/21/2024 8:28	0	0.1	0
5	8/21/2024 8:43	0.1	0.1	0.1
6	8/21/2024 8:58	0.1	0.1	0.1
7	8/21/2024 9:13	0.1	0.1	0.1
8	8 8/21/2024 9:28	0.1	0.1	0.1
ę	8/21/2024 9:43	0.1	0.1	0.1
10	8/21/2024 9:58	0.1	0.1	0.1
11	8/21/2024 10:13	0.1	0.2	0.1
12	8/21/2024 10:28	0.2	0.2	0.2
13	8 8/21/2024 10:43	0.2	0.2	0.2
14	8/21/2024 10:58	0.2	0.2	0.2
15	8/21/2024 11:13	0.2	0.2	0.2
16	8/21/2024 11:28	0.2	0.2	0.2
17	8/21/2024 11:43	0.2	0.2	0.2
18	8 8/21/2024 11:58	0.2	0.2	0.2
19	8/21/2024 12:13	0.2	0.2	0.2
20	8/21/2024 12:28	0.2	0.2	0.2
21	8/21/2024 12:43	0.2	0.2	0.2
22	8/21/2024 12:58	0.2	0.2	0.2
23	8 8/21/2024 13:13	0.1	0.2	0.1
24	8/21/2024 13:28	0.1	0.1	0.1
25	8/21/2024 13:43	0.1	0.2	0.1
Peak		0.2	0.2	0.2
Min		0	0	0
Average		0.1	0.1	0.1

TWA/STEL			
		PID(ppm)	PID(ppm)
Index	Date/Time	(TWA)	(STEL)
1	8/21/2024 7:43	0	0
2	8/21/2024 7:58	0	0
3	8/21/2024 8:13	0	0
4	8/21/2024 8:28	0	0
5	8/21/2024 8:43	0	0.1
6	8/21/2024 8:58	0	0.2
7	8/21/2024 9:13	0	0.2
8	8/21/2024 9:28	0	0.2
9	8/21/2024 9:43	0	0.2
10	8/21/2024 9:58	0	0.2
11	8/21/2024 10:13	0	0.2
12	8/21/2024 10:28	0	0.3
13	8/21/2024 10:43	0	0.4
14	8/21/2024 10:58	0	0.4
15	8/21/2024 11:13	0	0.4
16	8/21/2024 11:28	0.1	0.4
17	8/21/2024 11:43	0.1	0.4
18	8/21/2024 11:58	0.1	0.4
19	8/21/2024 12:13	0.1	0.4
20	8/21/2024 12:28	0.1	0.4
21	8/21/2024 12:43	0.1	0.4
22	8/21/2024 12:58	0.1	0.4
23	8/21/2024 13:13	0.1	0.3
24	8/21/2024 13:28	0.1	0.2
25	8/21/2024 13:43	0.1	0.2

====== 24/08/2 ******	=== 11	 4:48 *********	******	*	*******	*****	*****
Summai	ry						
Unit Nar Unit SN Unit Firn	me nw	MiniRAE 3000(PGM-7320) 592-912843 V2.22A	- Downwi	in	d		
Running Datalog Diagnos Stop Rea	Mc Mc tic asc	Hygiene Mode Auto No Power Down					
Site ID		12345678 12345678					
Begin		8/21/2024 14:48					
End		8/21/2024 16:03					
Sample	Pe	900					
Sensor		PID(ppm)					
Sensor S	SN	S023030100R6					
Measure	ΞŢ	Avg; Max; Real					
Span Span 2		100					
Span Z Low Alai	rm	50					
High Ala	rm	100					
Over Ala	ırm	15000					
STEL Ala	arm	25					
TWA Ala	rm	10					
Measure	em	Isobutylene					
Calibrat	ion	8/21/2024 7:11					
Peak		0.2					
Min		0.1					
Average		0.1					
******	***	*****	******	*	*******	*****	*****
Datalog							
Indov		Data /Tima	PID(ppm))	PID(ppm)	PID(pp	im)
muex	1	8/21/202/ 15:03	(Avg)	1	(Max)	(Real)	0 1
	2	8/21/2024 15:18	0.	1	0.2		0.1
	3	8/21/2024 15:33	0.	1	0.2		0.1
	4	8/21/2024 15:48	0.	2	0.2		0.2
Peak			0.	2	0.2		0.2
Min			0.	1	0.1		0.1
Average			0.	1	0.2		0.1
*****	***	*****	******	*	*******	*****	*****
TWA/STI	EL						
			PID(ppm))	PID(ppm)		
Index		Date/Time	(TWA)		(STEL)		
	1	8/21/2024 15:03		0	0.1		
	2	8/21/2024 15:18		0	0.2		
	3	8/21/2024 15:33		0	0.2		
	4	0/21/2024 13.48		U	0.3	,	

_____ 24/08/22 07:18 Summary _____ Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A -----Running M Hygiene Mode Datalog Mc Auto Diagnostic No Stop Reasc Pause in Menu Mode _____ 12345678 12345678 Site ID User ID _____
 Begin
 8/22/2024 7:18

 End
 8/22/2024 7:18

 Sample Pe
 900

 Number of
 0
 -----Sensor PID(ppm) Sensor SN S023030100R6 Measure Ty Avg; Max; Real 100 Span 1000 Span 2 50 50 100 15000 25 Low Alarm High Alarm Over Alarm STEL Alarm TWA Alarm 10 Measurem Isobutylene Calibration 8/21/2024 7:11 ******

Datalog

0 record.

24/08/22 07:36 ************************************	*****
Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A	
Running M: Hygiene Mode Datalog Mc Auto Diagnostic No Stop Reasc Pause in Menu Mode	
Site ID 12345678	
User ID 12345678	
Begin 8/22/2024 7:36	
End 8/22/2024 10:06	
Sample Pe 900	
Sensor PID(ppm) Sensor SN S023030100R6 Measure TJ Avg; Max; Real	
Span 100	
Span 2 1000	
Low Alarm 50	
High Alarm 100	
Over Alarm 15000	
STEL Alarm 10	
Calibration 8/22/2024 7:21	
Peak 0.1	
Min 0	
Average 0	

Datalog

			PID(ppm)	PID(ppm)	PID(ppm)
Index	Date/Tim	е	(Avg)	(Max)	(Real)
1	L	8/22/2024 7:51	0	0	0
2	2	8/22/2024 8:06	0	0	0
3	3	8/22/2024 8:21	0	0	0
2	l.	8/22/2024 8:36	0	0	0
5	5	8/22/2024 8:51	0	0.1	0
6	6	8/22/2024 9:06	0	0.1	0
7	,	8/22/2024 9:21	0.1	0.1	0.1
8	}	8/22/2024 9:36	0.1	0.1	0.1
9)	8/22/2024 9:51	0.1	0.1	0.1
10) 8	3/22/2024 10:06	0.1	0.1	0.1
Peak			0.1	0.1	0.1
Min			0	0	0
Average			0	0.1	0

TWA/STEL				
		PID(ppm)	PID(ppm)	
Index	Date/Time	(TWA)	(STEL)	
1	8/22/2024 7:51	0	0	
2	8/22/2024 8:06	0	0	
3	8/22/2024 8:21	0	0	
4	8/22/2024 8:36	0	0	
5	8/22/2024 8:51	0	0	
6	8/22/2024 9:06	0	0	
7	8/22/2024 9:21	0	0.1	
8	8/22/2024 9:36	0	0.2	
9	8/22/2024 9:51	0	0.2	
10	8/22/2024 10:06	0	0.2	

24/08/22 10:08

Summary

Unit Name MiniRAE 3000(PGM-7320) - Downwind Unit SN 592-912843 Unit Firmw V2.22A

Running M: Hygiene Mode Datalog Mc Auto Diagnostic No

Stop Reasc Power Down

Site ID	12345678	
User ID	12345678	
Begin	8/22/2024 10:08	
End	8/22/2024 11:48	
Sample Pe	900	
Number of	6	
Sensor P	PID(ppm)	
Sensor SN S	023030100R6	
Measure Ty A	wg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	25	
TWA Alarm	10	
Measurem Is	sobutylene	
Calibration	8/22/2024 7:21	
Peak	0.1	
Min	0	
Average	0.1	

Datalog					
			PID(ppm)	PID(ppm)	PID(ppm)
Index		Date/Time	(Avg)	(Max)	(Real)
	1	8/22/2024 10:23	0	0	0
	2	8/22/2024 10:38	0	0.1	0
	3	8/22/2024 10:53	0.1	0.1	0.1
	4	8/22/2024 11:08	0.1	0.1	0.1
	5	8/22/2024 11:23	0.1	0.1	0.1
	6	8/22/2024 11:38	0.1	0.1	0.1
Peak			0.1	0.1	0.1
Min			0	0	0
Average			0.1	0.1	0.1

TWA/STEL

			PID(ppm)	PID(ppm))
Index	Date/Tir	ne	(TWA)	(STEL)	
	1	8/22/2024 10:23	0		0
	2	8/22/2024 10:38	0		0
	3	8/22/2024 10:53	0	0.	1
	4	8/22/2024 11:08	0	0.	2
	5	8/22/2024 11:23	0	0.	2
	6	8/22/2024 11:38	0	0.	2

```
24/08/26 11:00
```

```
Summary
```

_____ Unit Name MiniRAE 3000(PGM-7320) - Downwind

Unit SN 592-912843

Unit Firmw V2.22A

Running McHygiene Mode

Datalog Mc Auto Diagnostic No

Stop Reasc Pause in Menu Mode

Site ID	12345678	
User ID	12345678	
Begin	8/26/2024 11:00	
End	8/26/2024 11:00	
Sample Pe	900	
Number of	0	
Sensor	PID(ppm)	

Sensor SN S023030100R6	
Measure Ty Avg; Max; Real	
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10

Calibration 8/22/2024 7:21

Measurem Isobutylene

```
Datalog
```

0 record.

TrakPro Version 4.70 ASCII Data File

Model:		DustT	rak II - Up	wind	
Model Number:		8530			
Serial Number:		8530153303			
Test ID:		001			
Test Abbreviation:		MANU	JAL_001		
Start Date	e:	8	/19/2024		
Start Time	e:		14:48:17		
Duration	(dd:hh:mm:	0:02:4	14:00		
Log Interv	/al (mm:ss):		15:00		
Number o	of points:		11		
Notes:					
Statistics		Channel: AEROSOL		AEROSOL	
		Units:		mg/m^3	
		Avera	ge:	0.002	
		Minim	ium:	0	
		Time o	of Minimu	15:03:17	
		Date o	of Minimu	8/19/2024	
		Maxin	num:	0.004	
		Time of Maximu		17:03:17	
		Dated	of Maximu	8/19/2024	
Calibration		Senso	or:	AEROSOL	
		Cal. d	ate	7/18/2024	
Date		Time		AEROSOL	
MM/dd/yy	ЛУУ	hh:mr	n:ss	mg/m^3	
	8/19/2024		15:03:17	0	
	8/19/2024		15:18:17	0	
	8/19/2024		15:33:17	0.001	
	8/19/2024		15:48:17	0.002	
	8/19/2024		16:03:17	0.002	
	8/19/2024		16:18:17	0.003	
	8/19/2024		16:33:17	0.003	
	8/19/2024		16:48:17	0.003	
	8/19/2024		17:03:17	0.004	
	8/19/2024		17:18:17	0.004	
	8/19/2024		17:32:18	0	

Model:	DustTrak II - Upv	wind	
Model Number:	8530		
Serial Number:	8530153303		
Test ID:	002		
Test Abbreviation:	MANUAL_002		
Start Date:	8/20/2024		
Start Time:	7:26:20		
Duration (dd:hh:mm:	0:08:30:00		
Log Interval (mm:ss):	15:00		
Number of points:	34		
Notes:			
Statistics	Channel:	AEROSOL	
	Units:	mg/m^3	
	Average:	0.009	
	Minimum:	0.007	
	Time of Minimu	7:56:20	
	Date of Minimur	8/20/2024	
	Maximum:	0.011	
	Time of Maximu	12:56:20	
	Date of Maximu	8/20/2024	
Calibration	Sensor:	AFROSOL	
	Cal. date	7/18/2024	
Date	Time	AEROSOL	
MM/dd/yyyy	hh:mm:ss	mg/m^3	
8/20/2024	7:41:20	0.008	
8/20/2024	7:56:20	0.007	
8/20/2024	8:11:20	0.008	
8/20/2024	8:26:20	0.007	
8/20/2024	8:41:20	0.007	
8/20/2024	8:56:20	0.007	
8/20/2024	9:11:20	0.007	
8/20/2024	9:26:20	0.007	
8/20/2024	9:41:20	0.007	
8/20/2024	9:56:20	0.007	
8/20/2024	10:11:20	0.008	
8/20/2024	10:26:20	0.008	
8/20/2024	10:41:20	0.008	
8/20/2024	10:56:20	0.009	
8/20/2024	11:11:20	0.009	
8/20/2024	11:26:20	0.009	
8/20/2024	11:41:20	0.01	
8/20/2024	11:56:20	0.01	
8/20/2024	12:11:20	0.01	
8/20/2024	12:26:20	0.01	
8/20/2024	12:20:20	0.01	
8/20/2024	12:41.20	0.01	
8/20/2024	13:11:20	0.011	
8/20/2024 8/20/2024	12.26.20	0.011	
012012024	10.20.20	0.011	
0/20/2024	13.41.20	0.011	
8/20/2024	13:30:20	0.011	
8/20/2024	14:11:20	0.011	
8/20/2024	14:26:20	0.011	
8/20/2024	14:41:20	0.011	
8/20/2024	14:56:20	0.011	
8/20/2024	15:11:20	0.01	
8/20/2024	15:26:20	0.011	
8/20/2024	15:41:20	0.011	
8/20/2024	15:56:20	0.011	

Model:	DustTrak II - Upwind			
Model Number:	8530			
Serial Number:	8530153303			
Test ID:	003			
Test Abbreviation:	MANUAL_003			
Start Date:	8/21/2024	8/21/2024		
Start Time:	7:26:11			
Duration (dd:hh:mm:	0:06:15:00			
Log Interval (mm:ss):	15:00			
Number of points:	25			
Notes:				
Statistics	Channel:	AEROSOL		
	Units:	mg/m^3		
	Average:	0.01		
	Minimum:	0.007		
	Time of Minimu	7:56:11		
	Date of Minimur	8/21/2024		
	Maximum:	0.014		
	Time of Maximu	12:56:11		
	Date of Maximu	8/21/2024		
Calibration	Sensor:	AEPOSOL		
Gaubration	Cal date	7/18/2024		
	Jai. uale	//10/2024		
Date	Time	AEROSOL		
MM/dd/yyyy	hh:mm:ss	mg/m^3		
8/21/2024	7:41:11	0.008		
8/21/2024	7:56:11	0.007		
8/21/2024	8:11:11	0.007		
8/21/2024	8:26:11	0.007		
8/21/2024	8:41:11	0.007		
8/21/2024	8:56:11	0.007		
8/21/2024	9:11:11	0.007		
8/21/2024	9:26:11	0.007		
8/21/2024	9:41:11	0.008		
8/21/2024	9:56:11	0.009		
8/21/2024	10:11:11	0.009		
8/21/2024	10:26:11	0.009		
8/21/2024	10:41:11	0.01		
8/21/2024	10:56:11	0.01		
8/21/2024	11:11:11	0.011		
8/21/2024	11:26:11	0.011		
8/21/2024	11:41:11	0.011		
8/21/2024	11:56:11	0.012		
8/21/2024	12:11:11	0.012		
8/21/2024	12:26:11	0.013		
8/21/2024	12:41:11	0.013		
8/21/2024	12:56:11	0.014		
8/21/2024	13:11:11	0.013		
8/21/2024	13:26:11	0.012		
Model:	DustTrak II - Upv	wind		
-------------------------	-------------------	------------		
Model Number:	8530			
Serial Number:	8530153303			
Test ID:	004			
Test Abbreviation:	MANUAL_004			
Start Date:	8/21/2024			
Start Time:	14:45:17			
Duration (dd:hh:mm:	0:01:00:00			
Log Interval (mm·ss):	15.00			
Number of points:	1			
Notes:	-			
Notes.				
Statistics	Channel:	AFROSOL		
otationoo	Linite:	mg/m^3		
	Average:	0.011		
	Minimum	0.011		
	Time of Minimur	15:20:17		
	Data of Minimur	9/21/2024		
	Maximum:	0,21/2024		
	Maximum.	15:00:17		
	Time of Maximu	15:00:17		
	Date of Maximu	8/21/2024		
Calibration	Sonoori			
Calibration	Cal data	7/10/2024		
	Cal. uale	//10/2024		
Date	Time	AFROSOL		
MM/dd/\\\\	hhimmiss	mg/m^3		
8/21/2024	15.00.17	0.012		
8/21/2024	15.00.17	0.012		
8/21/2024	15:20:17	0.011		
0/21/2024	15.30.17	0.01		
0/21/2024	10.40.17	0.011		
Model:	DustTrak II - Unv	wind		
Model Number:	8530			
Serial Number:	8530153303			
	005			
Test Abbreviation:				
Start Date:	8/22/2024			
Start Time:	7.27.52			
Duration (dd:hh·mm:	0.04.15.00			
Log Interval (mm:aa):	0.04.15.00			
Lug Interval (IIII.55).	15.00			
Number of points.	17			
Notes:				
Statistics	Channel			
otatistics	Unite:	mg/m^3		
	Avorago:	0.012		
	Average.	0.013		
	Minimum:	0.01		
	Time of Minimul	8:27:52		
		8/22/2024		
	Maximum:	0.01/		
	nime of Maximu	11:42:52		
	Date of Maximu	8/22/2024		
Calibration	Sensor.	AFROSOL		
Gaibration	Cal date	7/18/2024		
	Sul uul	77 10/2024		

Date		Time	AEROSOL
MM/dd/yy	уу	hh:mm:ss	mg/m^3
	8/22/2024	7:42:52	0.012
	8/22/2024	7:57:52	0.012
	8/22/2024	8:12:52	0.011
	8/22/2024	8:27:52	0.01
	8/22/2024	8:42:52	0.01
	8/22/2024	8:57:52	0.01
	8/22/2024	9:12:52	0.01
	8/22/2024	9:27:52	0.012
	8/22/2024	9:42:52	0.012
	8/22/2024	9:57:52	0.013
	8/22/2024	10:12:52	0.014
	8/22/2024	10:27:52	0.014
	8/22/2024	10:42:52	0.014
	8/22/2024	10:57:52	0.015
	8/22/2024	11:12:52	0.015
	8/22/2024	11:27:52	0.016
	8/22/2024	11:42:52	0.017

Model:	DustTrak II - Upwind
Model Number:	8530
Serial Number:	8530153303
Test ID:	006
Test Abbreviation:	MANUAL_006
Start Date:	8/26/2024
Start Time:	11:25:48
Duration (dd:hh:mm:	0:05:15:00
Log Interval (mm:ss):	15:00
Number of points:	21
Notes:	

24/08/15 13:34	****	****
Summary		
Unit Name	MiniRAE 3000(PGM-7	 320) - Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	
Running Mode	Hygiene Mode	
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Power Down	
Site ID	12345678	
User ID	12345678	
Begin	8/15/2024 13:34	
End	8/15/2024 13:34	
Sample Period(s)	60	
Number of Records	ы О	
Sensor	PID(ppm)	
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/15/2024 13:27	

Datalog

24/08/19 15:38	****	*****
Summary		
Unit Name	MiniRAE 3000(PGM-7320)	- - Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	_
Running Mode	Hygiene Mode	
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Pause in Menu Mode	
Site ID	12345678	-
User ID	12345678	_
Begin	8/19/2024 15:38	
End	8/19/2024 15:39	
Sample Period(s)	60	
Number of Records	s 0	
Sensor	PID(ppm)	
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/15/2024 13:27	

Datalog

24/08/19 15:40 ************************************	****	****
Unit Name	MiniRAE 3000(PGM	-7320) - Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	
Running Mode	Hygiene Mode	
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Power Down	
Site ID	12345678	
Liser ID	12345678	
Begin	8/19/2024 15:40	
End	8/19/2024 18:24	
Sample Period(s)	900	
Number of Records	s 10	
Sensor	PID(ppm)	
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/15/2024 13:27	
Peak	0.6	
Min	0	
Average	0.3	

Datalog

			PID(ppm)		PID(ppm)	PID(ppm)
Index		Date/Time	(Avg)		(Max)	(Real)
	1	8/19/2024 15:55		0	0	0
	2	8/19/2024 16:10		0	0	0
	3	8/19/2024 16:25		0	0.1	0.1
	4	8/19/2024 16:40		0.2	0.2	0.2
	5	8/19/2024 16:55		0.2	0.3	0.3
	6	8/19/2024 17:10		0.3	0.4	0.4
	7	8/19/2024 17:25		0.4	0.4	0.4
	8	8/19/2024 17:40		0.5	0.5	0.5
	9	8/19/2024 17:55		0.5	0.6	0.6
	10	8/19/2024 18:10		0.6	0.6	0.6
Peak				0.6	0.6	0.6
Min				0	0	0
Average				0.3	0.3	0.3

TWA/STEL					
			PID(ppm)		PID(ppm)
Index		Date/Time	(TWA)		(STEL)
	1	8/19/2024 15:55		0	0
	2	8/19/2024 16:10		0	0
	3	8/19/2024 16:25		0	0.1
	4	8/19/2024 16:40		0	0.3
	5	8/19/2024 16:55		0	0.5
	6	8/19/2024 17:10		0	0.7
	7	8/19/2024 17:25		0	0.8
	8	8/19/2024 17:40	0	.1	0.9
	9	8/19/2024 17:55	0	.1	1.1
1	10	8/19/2024 18:10	0	.1	1.2
				==:	

24/08/20 07:50

Summary ____ Unit Name MiniRAE 3000(PGM-7320) - Upwind Unit SN 592-918988 Unit Firmware Ver V2.22 -----Running Mode Hygiene Mode Datalog Mode Auto Diagnostic Mode No Stop Reason Pause in Menu Mode _____ 12345678 12345678 Site ID User ID ----------8/20/2024 7:50 Begin 8/20/2024 7:50 End Sample Period(s) 900 Number of Records 0 ---------PID(ppm) Sensor S023030089A2 Sensor SN Measure Type Avg; Max; Real Span 100 Span 2 1000 Low Alarm 50 High Alarm 100 15000 Over Alarm STEL Alarm 100 TWA Alarm 50 Measurement Gas Isobutylene Calibration Time 8/15/2024 13:27

Datalog

24/08/20 08:12 Summary Unit Name MiniRAE 3000(PGM-7320) - Upwind Unit SN 592-918988 Unit Firmware Ver V2.22
Summary Unit Name MiniRAE 3000(PGM-7320) - Upwind Unit SN 592-918988 Unit Firmware Ver V2.22
Unit Name MiniRAE 3000(PGM-7320) - Upwind Unit SN 592-918988 Unit Firmware Ver V2.22
Unit SN 592-918988 Unit Firmware Ver V2.22 Running Mode Hygiene Mode Datalog Mode Auto Diagnostic Mode No Stop Reason Pause in Menu Mode
Unit Firmware Ver V2.22 Running Mode Hygiene Mode Datalog Mode Auto Diagnostic Mode No Stop Reason Pause in Menu Mode
Running ModeHygiene ModeDatalog ModeAutoDiagnostic ModeNoStop ReasonPause in Menu Mode
Datalog ModeAutoDiagnostic ModeNoStop ReasonPause in Menu Mode
Diagnostic Mode No Stop Reason Pause in Menu Mode
Stop Reason Pause in Menu Mode
Site ID 12345678
User ID 12345678
Begin 8/20/2024 8:12
End 8/20/2024 8:12
Sample Period(s) 900
Number of Records 0
Sensor PID(ppm)
Sensor SN S023030089A2
Measure Type Avg; Max; Real
Span 100
Span 2 1000
Low Alarm 50
High Alarm 100
Over Alarm 15000
STEL Alarm 100
TWA Alarm 50
Measurement Gas Isobutylene
Calibration Time 8/20/2024 7:53

Datalog

24/08/20 08:14 ************************************	*****	*****
 Unit Name	MiniRAE 3000(PGM	 -7320) - Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	
Running Mode	Hygiene Mode	
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Battery Low	
Site ID	12345678	
User ID	12345678	
Begin	8/20/2024 8:14	
End	8/20/2024 16:04	
Sample Period(s)	900	
Number of Records	31	
Sensor	PID(ppm)	
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/20/2024 7:53	
Peak	0.6	
Min	0.2	
Average	0.5	

Datalog					
			PID(ppm)	PID(ppm)	PID(ppm)
Index		Date/Time	(Avg)	(Max)	(Real)
	1	8/20/2024 8:29	0.1	0.2	0.2
	2	8/20/2024 8:44	0.2	0.2	0.2
	3	8/20/2024 8:59	0.3	0.3	0.3
	4	8/20/2024 9:14	0.3	0.3	0.3
	5	8/20/2024 9:29	0.3	0.3	0.3
	6	8/20/2024 9:44	0.3	0.4	0.3
	7	8/20/2024 9:59	0.4	0.4	0.4
	8	8/20/2024 10:14	0.4	0.4	0.4
	9	8/20/2024 10:29	0.4	0.5	0.4
	10	8/20/2024 10:44	0.5	0.5	0.5
	11	8/20/2024 10:59	0.5	0.5	0.5
	12	8/20/2024 11:14	0.5	0.6	0.5
	13	8/20/2024 11:29	0.5	0.6	0.5
	14	8/20/2024 11:44	0.6	0.6	0.6
	15	8/20/2024 11:59	0.6	0.6	0.5
	16	8/20/2024 12:14	0.6	0.6	0.6
	17	8/20/2024 12:29	0.6	0.6	0.6
	18	8/20/2024 12:44	0.6	0.6	0.6
	19	8/20/2024 12:59	0.6	0.6	0.6
	20	8/20/2024 13:14	0.6	0.6	0.6
	21	8/20/2024 13:29	0.6	0.6	0.6
	22	8/20/2024 13:44	0.6	0.6	0.6
	23	8/20/2024 13:59	0.6	0.7	0.6
	24	8/20/2024 14:14	0.6	0.6	0.5
	25	8/20/2024 14:29	0.5	0.5	0.5
	26	8/20/2024 14:44	0.5	0.6	0.5
	27	8/20/2024 14:59	0.5	0.5	0.5
	28	8/20/2024 15:14	0.5	0.5	0.5
	29	8/20/2024 15:29	0.5	0.5	0.5
	30	8/20/2024 15:44	0.5	0.5	0.5
	31	8/20/2024 15:59	0.5	0.5	0.5
Peak			0.6	0.7	0.6
Min			0.1	0.2	0.2
Average			0.5	0.5	0.5

TWA/STEL

			PID(ppm)		PID(ppm)
Index	I	Date/Time	(TWA)		(STEL)
	1	8/20/2024 8:29		0	0.2
	2	8/20/2024 8:44		0	0.4
	3	8/20/2024 8:59		0	0.5
	4	8/20/2024 9:14		0	0.6
	5	8/20/2024 9:29		0	0.6
	6	8/20/2024 9:44		0.1	0.6
	7	8/20/2024 9:59		0.1	0.7
	8	8/20/2024 10:14		0.1	0.8
	9	8/20/2024 10:29		0.1	0.8
	10	8/20/2024 10:44		0.1	0.9
	11	8/20/2024 10:59		0.1	1
	12	8/20/2024 11:14		0.1	1
	13	8/20/2024 11:29		0.1	1
	14	8/20/2024 11:44		0.2	1.1
	15	8/20/2024 11:59		0.2	1.1
	16	8/20/2024 12:14		0.2	1.1
	17	8/20/2024 12:29		0.2	1.2
	18	8/20/2024 12:44		0.2	1.2
	19	8/20/2024 12:59		0.3	1.2
	20	8/20/2024 13:14		0.3	1.2
	21	8/20/2024 13:29		0.3	1.2
	22	8/20/2024 13:44		0.3	1.2
	23	8/20/2024 13:59		0.3	1.2
	24	8/20/2024 14:14		0.3	1.1
	25	8/20/2024 14:29		0.4	1
	26	8/20/2024 14:44		0.4	1
	27	8/20/2024 14:59		0.4	1
	28	8/20/2024 15:14		0.4	1
	29	8/20/2024 15:29		0.4	1
	30	8/20/2024 15:44		0.4	1
	31	8/20/2024 15:59		0.5	1

24/08/21 07:56

***** Summary ____ Unit Name MiniRAE 3000(PGM-7320) - Upwind Unit SN 592-918988 Unit Firmware Ver V2.22 -----Running Mode Hygiene Mode Datalog Mode Auto Diagnostic Mode No Stop Reason Pause in Menu Mode _____ 12345678 12345678 Site ID User ID ----------Begin 8/21/2024 7:56 End 8/21/2024 7:57 8/21/2024 7:57 End Sample Period(s) 900 Number of Records 0 _____ ----PID(ppm) S023030089A2 Sensor Sensor SN Measure Type Avg; Max; Real Span 100 Span 2 1000 Low Alarm 50 High Alarm 100 15000 Over Alarm STEL Alarm 100 TWA Alarm 50 Measurement Gas Isobutylene Calibration Time 8/20/2024 7:53

Datalog

24/08/21 14:46	****	****
Summary		
Unit Name Unit SN Unit Firmware Ver	MiniRAE 3000(PGM-7320) 592-918988 V2.22	- - Upwind
Running Mode Datalog Mode Diagnostic Mode Stop Reason	Hygiene Mode Auto No Power Down	
Site ID User ID	12345678 12345678	_
Begin End Sample Period(s) Number of Records	8/21/2024 14:46 8/21/2024 14:46 900 5 0	
Sensor Sensor SN Measure Type Span Span 2 Low Alarm High Alarm Over Alarm STEL Alarm TWA Alarm Measurement Gas Calibration Time	PID(ppm) S023030089A2 Avg; Max; Real 100 50 100 15000 100 50 Isobutylene 8/21/2024 7:59	-

Datalog

24/08/21 15:39	*****	****	******	*****
Summary				
Unit Name Unit SN	MiniRAE 3000(PGN 592-918988	1-7320) - Upwinc	I	
Unit Firmware Ver	V2.22			
Running Mode	Hygiene Mode			
Datalog Mode	Auto			
Diagnostic Mode	No			
Stop Reason	Power Down			
Site ID	12345678			
User ID	12345678			
Begin	8/21/2024 15:39			
End	8/21/2024 16:48			
Sample Period(s)	900			
Number of Records	s 4			
Sensor	PID(ppm)			
Sensor SN	S023030089A2			
Measure Type	Avg; Max; Real			
Span	100			
Span 2	1000			
Low Alarm	50			
High Alarm	100			
Over Alarm	15000			
STEL Alarm	100			
TWA Alarm	50			
Measurement Gas	Isobutvlene			
Calibration Time	8/21/2024 7:59			
Peak	1			
Min	0.7			
Average	0.9			
****	*****	******	*******	*****
Datalog				
		PID(ppm)	PID(ppm)	PID(ppm)

Index	1	Date/Time	(Avg)	(Max)	(Real)	
	1	8/21/2024 15:54	0.7	7 0.8	3 0.7	
	2	8/21/2024 16:09	0.8	3.0.8	3 0.8	
	3	8/21/2024 16:24	0.9	9 1.4	¥ 1	
	4	8/21/2024 16:39	:	l 1.1	1	
Peak			:	l 1.4	¥ 1	
Min			0.7	7 0.8	3 0.7	
Average			0.9) 1	0.9	

TWA/STEL

		PID(ppm)	PIE	D(ppm)
	Date/Time	(TWA)	(ST	EL)
1	8/21/2024 15:54		0	0.7
2	8/21/2024 16:09		0	1.5
3	8/21/2024 16:24		0.1	1.8
4	8/21/2024 16:39		0.1	2
	1 2 3 4	Date/Time 1 8/21/2024 15:54 2 8/21/2024 16:09 3 8/21/2024 16:24 4 8/21/2024 16:39	PID(ppm) Date/Time (TWA) 1 8/21/2024 15:54 2 8/21/2024 16:09 3 8/21/2024 16:24 4 8/21/2024 16:39	PID(ppm) PID Date/Time (TWA) (ST 1 8/21/2024 15:54 0 2 8/21/2024 16:09 0 3 8/21/2024 16:24 0.1 4 8/21/2024 16:39 0.1

24/08/22 08:06		
*****	******	*****
Summary		
Unit Name	MiniRAE 3000(PGM-7320)	- Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	
Running Mode	Hygiene Mode	-
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Pause in Menu Mode	
Site ID	12345678	-
User ID	12345678	
Begin	8/22/2024 8:06	-
End	8/22/2024 8:07	
Sample Period(s)	900	
Number of Records	0	
Sensor	PID(ppm)	
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/21/2024 7:59	

Datalog

24/08/22 08:21		****
Summany		
Unit Name	MiniRAE 3000(PGM-7320)	- Upwind
Unit SN	592-918988	
Unit Firmware Ver	V2.22	
Running Mode	Hygiene Mode	-
Datalog Mode	Auto	
Diagnostic Mode	No	
Stop Reason	Pause in Menu Mode	
Site ID	12345678	-
User ID	12345678	
Begin	8/22/2024 8:21	•
End	8/22/2024 8:21	
Sample Period(s)	900	
Number of Records	0	
Sensor	PID(ppm)	-
Sensor SN	S023030089A2	
Measure Type	Avg; Max; Real	
Span	100	
Span 2	1000	
Low Alarm	50	
High Alarm	100	
Over Alarm	15000	
STEL Alarm	100	
TWA Alarm	50	
Measurement Gas	Isobutylene	
Calibration Time	8/22/2024 8:09	

Datalog

24/08/22 08:22 ***********************************	*****	*****
Unit Name Unit SN Unit Firmware Ver	MiniRAE 3000(PGM-7320) 592-918988 V2.22	- Upwind
Running Mode Datalog Mode Diagnostic Mode Stop Reason	Hygiene Mode Auto No Pause in Menu Mode	
Site ID User ID	12345678 12345678	
Begin End Sample Period(s) Number of Records	8/22/2024 8:22 8/22/2024 10:58 900 10	
Sensor Sensor SN Measure Type Span Span 2 Low Alarm High Alarm Over Alarm STEL Alarm TWA Alarm Measurement Gas Calibration Time Peak Min Average	PID(ppm) S023030089A2 Avg; Max; Real 100 50 100 15000 100 50 Isobutylene 8/22/2024 8:09 0.9 0.1 0.5	

Datalog						
			PID(ppm)		PID(ppm)	PID(ppm)
Index		Date/Time	(Avg)		(Max)	(Real)
	1	8/22/2024 8:37		0.1	0.1	0.1
	2	8/22/2024 8:52		0.1	0.2	0.2
	3	8/22/2024 9:07		0.2	0.3	0.2
	4	8/22/2024 9:22		0.3	0.4	0.3
	5	8/22/2024 9:37		0.4	0.5	0.5
	6	8/22/2024 9:52		0.5	0.6	0.6
	7	8/22/2024 10:07		0.6	0.7	0.7
	8	8/22/2024 10:22		0.7	0.8	0.8
	9	8/22/2024 10:37		0.8	0.8	0.8
	10	8/22/2024 10:52		0.9	0.9	0.9
Peak				0.9	0.9	0.9
Min				0.1	0.1	0.1
Average				0.5	0.5	0.5

			PID(ppm)	PID(pp	m)
Index	[Date/Time	(TWA)	(STEL)	
	1	8/22/2024 8:37	()	0.1
	2	8/22/2024 8:52	()	0.3
	3	8/22/2024 9:07	()	0.4
	4	8/22/2024 9:22	()	0.5
	5	8/22/2024 9:37	()	0.8
	6	8/22/2024 9:52	0.1	L	1.1
	7	8/22/2024 10:07	0.1	L	1.3
	8	8/22/2024 10:22	0.1	L	1.5
	9	8/22/2024 10:37	0.1	L	1.6
	10	8/22/2024 10:52	0.2	2	1.7
	===:			======	

24/08/22 11:01 *****

Summary			
Unit Name	MiniRAE 3000(PGM	 1-7320) - Upwind	
Unit SN	592-918988		
Unit Firmware Ver	V2.22		
Running Mode	Hygiene Mode		
Datalog Mode	Auto		
Diagnostic Mode	No		
Stop Reason	Power Down		
Site ID	12345678		
User ID	12345678		
Begin	8/22/2024 11:01		
End	8/22/2024 12:38		
Sample Period(s)	900		
Number of Records	6		
Sensor	PID(ppm)		
Sensor SN	S023030089A2		
Measure Type	Avg; Max; Real		
Span	100		
Span 2	1000		
Low Alarm	50		
High Alarm	100		
Over Alarm	15000		
STEL Alarm	100		
TWA Alarm	50		
Measurement Gas	Isobutylene		
Calibration Time	8/22/2024 8:09		
Peak	0.3		
Min	0		
Average	0.2		
*****	*******	*****	*******
Datalog			
		PID(ppm)	PID(ppm)

-		PID(ppm)	PID(ppm)	PID(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	8/22/2024 11:16	0	0	0
2	8/22/2024 11:31	0.1	0.2	0.1
3	8/22/2024 11:46	0.2	0.2	0.2
4	8/22/2024 12:01	0.2	0.2	0.2
5	8/22/2024 12:16	0.2	0.2	0.2
6	8/22/2024 12:31	0.3	0.3	0.3
Peak		0.3	0.3	0.3
Min		0	0	0
Average		0.2	0.2	0.2

TWA/STEL

			PID(ppm)	PID	(ppm)
Index	I	Date/Time	(TWA)	(ST	EL)
	1	8/22/2024 11:16	6	0	0
	2	8/22/2024 11:31	L	0	0.1
	3	8/22/2024 11:46	6	0	0.3
	4	8/22/2024 12:01	L	0	0.4
	5	8/22/2024 12:16	6	0	0.4
	6	8/22/2024 12:31	L	0	0.5



APPENDIX E DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

HUGH W. GREGG ELEMENTARY SCHOOL CORNING AREA WIDE STUDY

SITE NUMBER 851074

Prepared For:



Department of Environmental Conservation

New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12th Floor Albany, NY 12233-7012

Prepared By:



301 Plainfield Road, Suite 350 Syracuse, New York 13212

JANUARY 2025

TABLE OF CONTENTS

SECTION 1 DATA USABILITY SUMMARY	1-1
1.1 Laboratory Data Packages	1-1
1.2 Sampling and Chain-of-Custody	1-1
1.3 Laboratory Analytical Methods	1-1
1.3.1 Semivolatile Organic Analysis	1-2
1.3.2 PFAS Organic Analysis	1-2
1.3.3 Metals Analysis	1-2
SECTION 2 DATA VALIDATION REPORT	2-1
2.1 Soil Samples	2-1
2.1.1 Semivolatiles	2-1
2.1.2 PFAS	2-2
2.1.3 Metals	2-3

LIST OF ATTACHMENTS

ATTACHMENT A - VALIDATED LABORATORY DATA



SECTION 1 DATA USABILITY SUMMARY

Soil samples were collected from the Corning Area Wide Study site on August 20, 2024 through August 22, 2024. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Project Work Plan,
- USEPA analytical methodologies,
- National Functional Guidelines for Organic Superfund Methods Data Review, USEPA 540-R-20-005, November 2020;
- National Functional Guidelines for Inorganic Superfund Methods Data Review, USEPA 542-R-20-006, November 2020;
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review, and
- Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, dated April 2023.

The analytical laboratory for this project was Pace – New England (Pace). This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 Laboratory Data Packages

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 34-38 days for the project samples. The data packages received from the laboratory were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 Sampling and Chain-of-Custody

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at the laboratory within one to two days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 Laboratory Analytical Methods

The soil samples that were collected from the site were analyzed for semivolatile organic compounds (SVOCs), 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), and metals. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" not detected at the value given,
- "UJ" estimated and not detected at the value given,
- "J" estimated at the value given,



- "J+" estimated biased high at the value given,
- "J-" estimated biased low at the value given,
- $"\ensuremath{\mathbb{N}}"$ presumptive evidence at the value given, and
- "R" unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Semivolatile Organic Analysis

The project samples were analyzed for SVOCs including 1,4-dioxane using the USEPA SW-846 8270E/8270E SIM analytical method. Certain reported results for these samples were qualified as estimated based upon laboratory control sample (LCS) recoveries and instrument calibrations. Certain reported results for these samples were qualified as unusable "R" based upon poor instrument calibrations. The reported SVOC analytical results were considered 98.6% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met overall.

1.3.2 PFAS Organic Analysis

The project samples were analyzed for PFAS using the draft USEPA 1633 analytical method. Certain reported results for these samples were qualified as estimated based upon surrogate recoveries and sample result identifications. The reported PFAS analytical results were considered 100% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met.

1.3.3 Metals Analysis

The project samples were analyzed for metals using the USEPA SW-846 6010D and 7471B analytical methods. Certain reported results for these samples were qualified as estimated based upon matrix spike/matrix spike duplicate (MS/MSD) recoveries and LCS recoveries. The reported metals analytical results were considered 100% complete (i.e., usable) for the project data presented by the laboratory. PARCCS requirements were met.



SECTION 2 DATA VALIDATION REPORT

2.1 Soil Samples

Data review has been completed for data packages containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 24H3010, 24H3407, and 24H3410. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory.

Data validation was performed for all samples in accordance with the most current editions of the USEPA National Functional Guidelines for organic and inorganic data review, the USEPA Region II SOPs for organic and inorganic data review, analytical methodologies, and the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs*, dated April 2023. The validated laboratory data are presented in Attachment A. Certain samples may have required dilution prior to analysis based upon sample matrix, color of extract, or large concentrations of target or non-target analytes. This data validation and usability report is presented by analysis type.

2.1.1 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field QC equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of LCS recoveries and initial and continuing calibrations as discussed below.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the LCS recoveries for hexachlorocyclopentadiene (30.1%R, 28.3%R; QC limit 40-140%R) and pyridine (26.1%R, 24.7%R; QC limit 30-140%R) associated with samples in SDG 24H3407; and pyridine (22.4%R, 23.0%R; QC limit 30-140%R) associated with samples in SDG 24H3410. Therefore, results for these compounds which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with minimum average relative response factors (RRFs) of 0.05, maximum relative standard deviations (%RSDs) of 20%, and maximum percent differences (%Ds) within ±30% with the exception of hexachlorocyclopentadiene (-41.4%D), benzaldehyde (-52.3%D), aniline (-40.0%D), 4-



chloroaniline (-48.0%D), 2,4-dimethylphenol (-38.4%D), and 2,3,4,6-tetrachlorophenol (114%D) in the initial calibration verification associated with samples in SDGs 24H3407 and 24H3410. Therefore, results for these compounds with the exception of 2,3,4,6-tetrachlorophenol were considered estimated and qualified "UJ" for the affected samples. The nondetected results for 2,3,4,6-tetrachlorophenol were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with minimum relative response factors (RRFs) of 0.05 and maximum percent differences (%Ds) within $\pm 20\%$ with the exception of hexachlorocyclopentadiene (-64.5%D), 2,4-dinitrophenol (-28.6%D), pentachlorophenol (-29.4%D), and 2,3,4,6-tetrachlorophenol (90.5%D) in the continuing calibration associated with samples in SDG 24H3407; and aniline (24.5%D), benzo(g,h,i)perylene (31.4%D), dibenz(a,h)anthracene (32.3%D), di-n-octylphthalate (25.9%D), hexachlorocyclopentadiene (-37.4%D), indeno(1,2,3-cd)pyrene (27.7%D), and 2,3,4,6-tetrachlorophenol (95.9%D) in the continuing calibration associated with samples in SDG 24H3410. Therefore, results for these compounds with the exception of 2,3,4,6-tetrachlorophenol were considered estimated and qualified "UJ" for the affected samples. The nondetected results for 2,3,4,6-tetrachlorophenol were considered unusable and qualified "R" for the affected samples.

<u>Usability</u>

All semivolatile soil sample results were considered usable following data validation with the exception of the nondetected 2,3,4,6-tetrachlorophenol results based upon poor instrument calibrations.

<u>Summary</u>

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The semivolatile soil data presented by the laboratory were 98.6% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A.

2.1.2 PFAS

The following items were reviewed for compliancy in the PFAS analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field QC equipment/field blank contamination
- Instrument performance
- Initial and continuing calibrations
- Internal standard responses
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and sample result identifications as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low surrogate recoveries for d3-NMeFOSA (QC limit 15-130%R) and d5-NEtFOSA (QC limit 10-130%R) in samples

with lab IDs 24H3407-02 (14.2%R and 8.31%R, respectively) and 24H3410-02 (10.7%R and 6.61%R, respectively). Therefore, the associated results which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Sample Result Identifications

It was noted that the mass ion ratio exceeded the QC limit for PFPeA in sample with lab ID 24H3407-02 and PFDS in sample with lab ID 24H3410-02. Therefore, results for these compounds were considered estimated, tentatively identified, and qualified "JN" for the affected samples.

<u>Usability</u>

All PFAS soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PFAS soil data presented by the laboratory were 100% complete (i.e., usable). The validated PFAS laboratory data are tabulated and presented in Attachment A.

2.1.3 Metals

The following items were reviewed for compliancy in the metals analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, preparation blank, and field QC equipment blank contamination
- Interference check sample (ICS) recoveries
- MS/MSD recoveries
- LCS recoveries
- Laboratory duplicate precision
- Serial dilutions
- Sample result verification and identification
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, MS/MSD recoveries, and LCS recoveries as discussed below.

Blank Contamination

The laboratory preparation blank associated with samples in SDGs 24H3407 and 24H3410 contained manganese below the reporting limit at a concentration of 0.22 mg/kg. Validation qualification was not required for the affected samples.

MS/MSD Recoveries

All MS/MSD recoveries were considered acceptable and within the 75-125%R QC limit (80-120%R for mercury) with the exception of the low MS/MSD recoveries for antimony (29.6%R, 31.1%R), boron (66.5%R), lead (45.0%R), and zinc (68.6%R) associated with sample with lab ID 24H3410-01. Therefore, results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.



LCS Recoveries

All LCS recoveries were considered acceptable and within the 85-115 QC limit with the exception of the LCS recoveries for copper (122%R) and mercury (67%R) associated with samples in SDG 24H3010. Therefore, results for those analytes where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples. Positive results for those analytes where LCS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

<u>Usability</u>

All metals soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The metals soil data presented by the laboratory were 100% complete (i.e., usable). The validated metals laboratory data are tabulated and presented in Attachment A.



ATTACHMENT A - VALIDATED LABORATORY DATA

		Location	n ID	AWS-HGE-SS-01	AWS-HGE	-SS-01	AWS-HG	E-SS-01	AWS-HO	E-SS-02	AWS-HO	GE-SS-02	AWS-HO	E-SS-02
		Sample	e ID	AWS-HGE-SS-01-0.5-2	AWS-HGE-SS	-01-0-0.5	AWS-HGE-	SS-01-2-4	AWS-HGE	-02-0.5-2	AWS-HGE	-02-0-0.5	AWS-HG	E-02-2-4
Matrix		atrix	SO	SO		SO		SO		SO		SO		
		Lab Sample	e ID	24H3410-02	24H341	0-01	24H3410-03		24H3010-02		24H3010-01		24H3010-03	
			SDG	24H3410	24H34	10	24H3410		24H	3010	24H	3010	24H3010	
		Sample D	Date	8/22/2024	8/22/2	024	8/22/	2024	8/20/	2024	8/20	/2024	8/20/	2024
		Sample Type C	ode	Ν	Ν		Ν	N	ſ	J		N	ſ	N
Analytical Method	Chemical Name	CAS_RN U	nit										11	
8270E	1,2,4,5-Tetrachlorobenzene	95-94-3 mg	i/kg	0.4 U										
8270E	1-Methylnaphthalene	90-12-0 mg	/kg	0.2 U										
8270E	2,3,4,6-Tetrachlorophenol	58-90-2 mg	/kg	R										
8270E	2,4,5-Trichlorophenol	95-95-4 mg	/kg	0.4 U										
8270E	2,4,6-Trichlorophenol	88-06-2 mg	/kg	0.4 U										
8270E	2,4-Dichlorophenol	120-83-2 mg	/kg	0.4 U										
8270E	2,4-Dimethylphenol	105-67-9 mg	/kg	0.4 UJ										
8270E	2,4-Dinitrophenol	51-28-5 mg	/kg	0.78 U										
8270E	2,4-Dinitrotoluene	121-14-2 mg	/kg	0.4 U										
8270E	2,6-Dinitrotoluene	606-20-2 mg	/kg	0.4 U										
8270E	2-Chloronaphthalene	91-58-7 mg	/kg	0.4 U										
8270E	2-Chlorophenol	95-57-8 mg	/kg	0.4 U										
8270E	2-Methylnaphthalene	91-57-6 mg	/kg	0.043 J										
8270E	2-Methylphenol (O-Cresol)	00095-48-7 mg	/kg	0.4 U										
8270E	2-Nitroaniline	88-74-4 mg	/kg	0.4 U										
8270E	2-Nitrophenol	88-75-5 mg	/kg	0.4 U										
8270E	3- And 4- Methylphenol (Total)	MEPH3MEPH4 mg	/kg	0.4 U										
8270E	3,3'-Dichlorobenzidine	91-94-1 mg	/kg	0.2 U										
8270E	3-Nitroaniline	99-09-2 mg	/kg	0.4 U										
8270E	4,6-Dinitro-2-Methylphenol	534-52-1 mg	/kg	0.4 U										
8270E	4-Bromophenyl Phenyl Ether	101-55-3 mg	i/kg	0.4 U										
8270E	4-Chloro-3-Methylphenol	59-50-7 mg	/kg	0.78 U										
8270E	4-Chloroaniline	106-47-8 mg	/kg	0.78 UJ										
8270E	4-Chlorophenyl Phenyl Ether	7005-72-3 mg	/kg	0.4 U										
8270E	4-Nitroahiline	100-01-6 mg	/kg	0.40										
8270E		100-02-7 mg	/Kg	0.78 0										
8270E		83-32-9 mg	/Kg	0.2 U										
8270E		208-96-8 mg	/kg	0.20										
8270E		42.52.2 mg	/kg	0.4 0										
8270L 8270E	Anthracene	120-12-7 mg	/kg	0.211										
8270E		1012-24-0 mg	/kg	0.7911										
8270E	Benzaldehyde	100-52-7 mg	/kg i/ka	0.4111										
8270E	Benzo(A)Anthracene	56-55-3 mg	/ka	0.094 J	<u> </u>				L		<u> </u>			
8270E	Benzo(A)Pyrene	50-32-8 mg	/kg	0.094 1										
8270E	Benzo(B)Fluoranthene	205-99-2 mg	/kg	0.13 J										
8270E	Benzo(G.H.I)Pervlene	191-24-2 mg	/kg	0.2 UJ										
8270E	Benzo(K)Fluoranthene	207-08-9 mg	/ka	0.07 J										
8270E	Benzyl Butyl Phthalate	85-68-7 mg	/ka	0.4 U										
8270E	Biphenyl (Diphenyl)	92-52-4 mg	/ka	0.79 U										
8270E	Bis(2-Chloroethoxy) Methane	111-91-1 ma	/kg	0.4 U										
8270E	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4 mg	i/kg	0.4 U									1	
8270E	Bis(2-Chloroisopropyl) Ether	108-60-1 mg	/kg	0.4 U									1	
8270E	Bis(2-Ethylhexyl) Phthalate	117-81-7 mg	/kg	0.2 J										
8270E	Caprolactam	105-60-2 mg	/kg	0.4 U										
8270E	Carbazole	86-74-8 mg	/kg	0.2 U										
8270E	Chrysene	218-01-9 mg	/kg	0.11 J										
8270E	Dibenz(A,H)Anthracene	53-70-3 mg	/kg	0.2 UJ										
8270E	Dibenzofuran	132-64-9 mg	/kg	0.4 U										



		Location ID	AWS-HGE-SS-01	AWS-HGE-SS-01	AWS-HGE-SS-01	AWS-HGE-SS-02	AWS-HGE-SS-02	AWS-HGE-SS-02
		Sample ID	AW/S-HGE-SS-01-0 5-2	AWS-HGE-SS-01-0-0 5	AW/S-HGE-SS-01-2-4	AW/S-HGE-02-0 5-2	AWS-HGE-02-0-0 5	AWS-HGE-02-2-4
		Matrix	SO	SO	SO	SO	SO	SO
		Lah Samplo ID	2443410 02	2412410 01	2442410.03	2443010.02	2443010.01	2442010 03
			24113410-02	24113410-01	24113410-03	24113010-02	24113010-01	24113010-03
		Sample Date	24113410	24113410	24113410	24113010	24113010	24113010
		Sample Type Code	0/22/2024	0/22/2024 N	0/22/2024	0/20/2024	8/20/2024	8/20/2024
Applytical Mathed	Chamical Nama		IN	IN IN	IN	IN IN	IN IN	IN
			0.411					
8270E	Dietnyl Phinalate	84-66-2 mg/kg	0.4 0					
8270E	Dimetnyi Phthalate	131-11-3 mg/kg	0.4 0		· · · · · · · · · · · · · · · · · · ·			
8270E	Di-N-Butyl Phthalate	84-74-2 mg/kg	0.4 U					
8270E	Di-N-Octylphthalate	117-84-0 mg/kg	0.4 UJ					
8270E		206-44-0 mg/kg	0.14 J					
8270E	Fluorene	86-/3-/ mg/kg	0.2 U					
8270E	Hexachlorobenzene	118-74-1 mg/kg	0.4 U					
8270E	Hexachlorobutadiene	87-68-3 mg/kg	0.4 U					
8270E	Hexachlorocyclopentadiene	77-47-4 mg/kg	0.4 UJ					
8270E	Hexachloroethane	6/-72-1 mg/kg	0.4 U	<u> </u>	<u> </u>	↓	<u> </u>	
8270E	Indeno(1,2,3-C,D)Pyrene	193-39-5 mg/kg	0.2 UJ					
8270E	Isophorone	00078-59-1 mg/kg	0.4 U	<u> </u>	ļ	ļ		
8270E	Naphthalene	91-20-3 mg/kg	0.11 J					
8270E	Nitrobenzene	98-95-3 mg/kg	0.4 U					
8270E	N-Nitrosodi-N-Propylamine	621-64-7 mg/kg	0.4 U					
8270E	N-Nitrosodiphenylamine	86-30-6 mg/kg	0.4 U					
8270E	Pentachlorophenol	87-86-5 mg/kg	0.4 U					
8270E	Phenanthrene	85-01-8 mg/kg	0.082 J					
8270E	Phenol	108-95-2 mg/kg	0.4 U					
8270E	Pyrene	129-00-0 mg/kg	0.17 J					
8270E	Pyridine	110-86-1 mg/kg	0.4 UJ					
A2540G	Solids, Percent	SOLID %	84.4	82.1	85.4	82.9	88.7	85.8
E1633	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9 ug/kg	0.79 U					
E1633	1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	39108-34-4 ug/kg	0.79 U					
E1633	1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4 ug/kg	0.79 U					
E1633	1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	27619-97-2 ua/ka	0.79 U					
E1633	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2 ua/ka	2 U					
E1633	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7 ug/kg	2 U					
E1633	2H.2H.3H.3H-Perfluorooctanoic acid	914637-49-3 ug/kg	9.9 U					
E1633	3-Perfluoroheptyl propanoic acid	812-70-4 ug/kg	9.9 U					
E1633	3-Perfluoronronyl propanoic acid	356-02-5 ug/kg	211					
E1633	4 8-Dioxa-3H-perfluoroponanoic acid (ADONA)	919005-14-4 ug/kg	0.7911					
F1633	9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1 ug/kg	0.7911				<u> </u>	
E1633	Hexafluoropropylene oxide dimer acid (HEPO-DA)	13252-13-6 ug/kg	0.7911				<u> </u>	
E1633	N-ethyl perfluoro-1-octanesulfonamide	4151-50-2 ug/kg	0.2111		<u> </u>	<u> </u>	+ + + + + + + + + + + + + + + + + + + +	
E1633	N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6 ug/kg	0.211				<u> </u>	
E1633	N-methyl perfluoro-1-octanesulfonamide	21506-32-8 ug/kg	0.2 0					
E1633	N-methyl perfluorooctanesulfonamidoacetic acid (NMeEOSAA)	2355-31-9 ug/kg	0.2 03					
E1633	Nonafluoro 3.6 diovabontanoic acid	151772 58 6 ug/kg	0.2 0					
E1633	Parfluoro(2-athoyyathana)sulfanic acid	113507_82 7 ug/kg	0.411		1	<u> </u>	+ + + + + + + + + + + + + + + + + + + +	
E1622	Dorfluoro 2 mothovypropanoic acid	277 72 1 ug/kg	0.40				+ +	
E1622	Porfluoro 4 mothovybutanoic acid	863000 80 E ug/kg	0.40				+ +	
L1033	Porfluorohutanosulfonic acid (DEPS)	275 72 5 ug/kg	0.40		l	ł – – – – – – – – – – – – – – – – – – –	+ +	
E1033		375-73-5 UG/KG		├───	<u> </u>	ł – – – – – – – – – – – – – – – – – – –	 	
1 1 6 7 7	Dorthuorobutonoia Aaid		0.7910	1		1		
E1633	Perfluorobutanoic Acid	225 77 2	0.11			l I		
E1633 E1633	Perfluorobutanoic Acid Perfluorodecanesulfonic acid (PFDS)	335-77-3 ug/kg	0.11 JN					
E1633 E1633 E1633	Perfluorobutanoic Acid Perfluorodecanesulfonic acid (PFDS) Perfluorodecanoic acid (PFDA)	335-77-3 ug/kg 335-76-2 ug/kg	0.11 JN 0.52					
E1633 E1633 E1633 E1633	Perfluorobutanoic Acid Perfluorodecanesulfonic acid (PFDS) Perfluorodecanoic acid (PFDA) Perfluorododecanesulfonic acid (PFDOS) Perfluorododecanesulfonic acid (PFDOS)	313-22-4 ug/kg 335-77-3 ug/kg 335-76-2 ug/kg 79780-39-5 ug/kg	0.11 JN 0.52 0.2 U					
E1633 E1633 E1633 E1633 E1633	Perfluorobutanoic Acid Perfluorodecanesulfonic acid (PFDS) Perfluorodecanoic acid (PFDA) Perfluorododecanesulfonic acid (PFDOS) Perfluorododecanoic acid (PFDOA)	373-22-4 ug/kg 335-77-3 ug/kg 335-76-2 ug/kg 79780-39-5 ug/kg 307-55-1 ug/kg	0.11 JN 0.52 0.2 U 0.19 J					



		Loc	cation ID	AWS-HGE-SS-01	AWS-HGE-SS-01	AWS-HGE-SS-01	AWS-HGE-SS-02	AWS-HGE-SS-	S-02 AWS-HG	GE-SS-02
		Sa	ample ID	AWS-HGE-SS-01-0.5-2	AWS-HGE-SS-01-0-0.5	AWS-HGE-SS-01-2-4	AWS-HGE-02-0.5-2	AWS-HGE-02-0	0-0.5 AWS-HG	E-02-2-4
			Matrix	SO	SO	SO	SO	SO	S	0
		Lab Sa	ample ID	24H3410-02	24H3410-01	24H3410-03	24H3010-02	24H3010-0	01 24H30)10-03
			SDG	24H3410	24H3410	24H3410	24H3010	24H3010	24H	3010
		Sam	ple Date	8/22/2024	8/22/2024	8/22/2024	8/20/2024	8/20/2024	4 8/20/	/2024
		Sample Ty	/pe Code	Ν	Ν	Ν	Ν	N	ſ	N
Analytical Method	Chemical Name	CAS_RN	Unit							
E1633	Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	0.16 J						
E1633	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	0.081 J						
E1633	Perfluorohexanoic acid (PFHxA)	307-24-4	ug/kg	0.25						
E1633	Perfluorononanesulfonic Acid (PFNS)	68259-12-1	ug/kg	0.2 U						
E1633	Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	0.2						
E1633	Perfluorooctane Sulfonamide (FOSA)	754-91-6	ug/kg	0.2 U						
E1633	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	2.7						
E1633	Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	0.73						
E1633	Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	ua/ka	0.2 U						
E1633	Perfluoropentanoic Acid (PFPeA)	2706-90-3	ua/ka	0.42						
E1633	Perfluorotetradecanoic acid (PETA)	376-06-7	ua/ka	0.076 J						
E1633	Perfluorotridecanoic Acid (PETriA/PETrDA)	72629-94-8	ua/ka	0.031 J						
E1633	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ua/ka	L 90.0						
SW6010D	Aluminum	7429-90-5	ma/ka	11000	10000	15000	9000	8600	8900	
SW6010D	Antimony	7440-36-0	ma/ka	1.9 U	2 U.J	1.9 U	1.8 U	1.8 U	1.8	U
SW6010D	Arsenic	7440-38-2	mg/kg	7.9	6.9	7.1	5.9	6.9	6.1	-
SW6010D	Barium	7440-39-3	mg/kg	120	95	100	69	67	45	
SW6010D	Beryllium	7440-41-7	mg/kg	0.57	0.51	0.55	0.37	0.33	0.37	
SW6010D	Boron	7440-42-8	mg/kg	2.5 J	2.3 J	1.7 J	2.6 J	3.4 J	2.3	J
SW6010D	Cadmium	7440-43-9	mg/kg	0.38 J	0.36 J	0.22 J	0.22 J	0.24 J	0.37	U
SW6010D	Calcium	7440-70-2	mg/kg	3400	1700	1300	9300	68000	1500	
SW6010D	Chromium, Total	7440-47-3	mg/kg	11	12	15	9.9	10	10	
SW6010D	Cobalt	7440-48-4	mg/kg	7.1	7.5	8.3	5.8	5.8	6.2	
SW6010D	Copper	7440-50-8	mg/kg	18	17	18	22 J+	22 J+	21	J+
SW6010D	Iron	7439-89-6	mg/kg	21000	22000	26000	17000	18000	19000	
SW6010D	Lead	7439-92-1	mg/kg	53	45 J	31	24	24	16	
SW6010D	Magnesium	7439-95-4	mg/kg	2700	2600	3100	3500	6100	2500	
SW6010D	Manganese	7439-96-5	mg/kg	450	420	430	550	500	480	
SW6010D	Nickel	7440-02-0	mg/kg	16	17	19	13	13	14	
SW6010D	Potassium	7440-09-7	mg/kg	930	1000	920	670	730	610	
SW6010D	Selenium	7782-49-2	mg/kg	3.8 U	4.1 U	3.9 U	3.7 U	3.6 U	3.7	U
SW6010D	Silver	7440-22-4	mg/kg	0.38 U	0.41 U	0.39 U	0.37 U	0.36 U	0.37	U
SW6010D	Sodium	7440-23-5	mg/kg	190 U	200 U	190 U	240	230	240	
SW6010D	Thallium	7440-28-0	mg/ka	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.8	U
SW6010D	Vanadium	7440-62-2	mg/ka	15	13	18	13	12	13	
SW6010D	Zinc	7440-66-6	ma/ka	96	80 J	76	87	110	66	
SW7471B	Mercury	7439-97-6	ma/ka	0.12	0.089	0.14	0.055 J-	0.052	0.042	J-
SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	ma/ka	0.058 U					0.012	-
-			J J	_						



Supple Lip Mon-Hick Strup 10			Loca	ation ID	AWS-HO	GE-SS-03	AWS-HO	E-SS-03	AWS-HC	GE-SS-03
Image: Network of the sector of the			Sar	mple ID	AWS-HGE-	SS-03-0.5-2	AWS-HGE-	SS-03-0-0.5	AWS-HGE	-SS-03-2-4
Listical and a series of a serie of a series of a serie				Matrix	S	0	S	0	S	0
Normal Solution 2413407 2413407 2413407 2413407 Sample Type Cole N N N N Analytical Method Chemical Name 52,44 mala 0.25 0 N N 20256 12,45 515 graduloubonzonu 52,44 mala 0.25 0 N N 20256 12,45 516 francolubonzonu 52,49 mala 0.29 N N N 20256 2,45 146 francoluborationu 52,49 mala 0.29 N N N N 20256 2,45 146 francoluborationu 126,42 mala 0.29 N N N N 20256 2,45 146 francoluborationu 126,42 mala 0.29 N N N N 20256 2,45 176,42 mala 0.29 N N N N 20256 2,440 176,42 mala 0.29 N			Lab Sar	mple ID	24H34	407-02	24H34	-	24H34	407-03
Burble Normal Name Constant Name CA Same Same Same Same Same Same Same Same			200 001	SDG	24H	3407	24H	3407	24H	3407
Description N H N H N 2878 1.4.4.5 Tetrahnubenane 65.914 mg/a 0.391 2878 1.4.4.5 Tetrahnubenane 69.913 mg/a 0.391 <			Samo	ole Date	8/21	/2024	8/21	/2024	8/21	/2024
Analyzer, Markov Co. Str. M. Urbit Description Description 22705 1, 24, 5. Transformeromene 69, 44, 3. marka 0.19 [J] Image Image <td></td> <td></td> <td>Sample Tvr</td> <td>ne Code</td> <td>0/ 2 1</td> <td>N</td> <td>0,21,</td> <td>1 V</td> <td>0,</td> <td>N</td>			Sample Tvr	ne Code	0/ 2 1	N	0,21,	1 V	0,	N
20206 12.4.6-Tritachoratemane 95-94-37 matha 0.391 20206 12.4.6-Tritachoraphund 56-90-2 matha 0.391 20206 2.3.4.6-Tritachoraphund 56-96-4 matha 0.391 20206 2.4.6-Tritaboraphund 86-96-4 matha 0.391 20206 2.4.6-Tritaboraphund 12.68-7 matha 0.391 20206 2.4.4-Dintrophenol 12.68-7 matha 0.391 20206 2.4-Dintrophenol 12.68-7 matha 0.391 20206 2.4-Dintrophenol 12.68-7 matha 0.391 20206 2.4-Dintrophenol 62-70 matha 0.391	Analytical Method	Chemical Name	CAS RN	Unit		•		-	·	•
B2056 1.4 Multysignthalizes 00:12.0 modia N	8270F	1 2 4 5-Tetrachlorobenzene	95-94-3	ma/ka	0.39	U			1	
3270E 2,4,4-5-Trichtorghenol 59-92. mgAg 0.39 U Image Imag	8270E	1-Methylnaphthalene	90-12-0	ma/ka	0.19	U				
92.706 2.4.5 Trichtorsphenol 99.95.4 myAg 0.39 U 92.707 2.4.6 Trichtorsphenol 120.63.2 myAg 0.39 U 92.707 2.4.0 Dimstryphenol 120.63.2 myAg 0.39 U 92.708 2.4.0 Dimstryphenol 121.42.4 myAg 0.39 U 92.708 2.4.0 Dimstryphenol 122.14.2 myAg 0.39 U 92.708 2.4.0 Dimstryphenol 95.76.6 myAg 0.39 U 92.706 2.Charonsphthalenc 91.57.6 myAg 0.39 U	8270E	2.3.4.6-Tetrachlorophenol	58-90-2	ma/ka	0,	R				
9270E 2.4.6.17.cohorohond 88.06.2 mxha 0.39 U 9270E 2.4.10mtrophenol 102-67.9 mxha 0.39 U 9270E 2.4.10mtrophenol 15/28.5 mxha 0.75 U	8270E	2.4.5-Trichlorophenol	95-95-4	ma/ka	0.39	U				
22-40 24-00 120-83.2 mp/kg 0.39 U Image: Construction of the second of th	8270E	2.4.6-Trichlorophenol	88-06-2	ma/ka	0.39	U				
22.4 Dimetrylghenol 105.67.9 m3/a 0.38 U 0 0 0 0 2970E 2.4 Dinitrobluono 121.14.2 m3/a 0.39 U 0 0 0 2970E 2.4 Dinitrobluone 602-02-0 mg/a 0.39 U 0 0 0 0 2970E 2.6 Dinitrobluone 605-70-0 mg/a 0.39 U 0 0 0 0 2970E 2.6 Dinitrobluone 615.75.4 mg/a 0.39 U 0 <t< td=""><td>8270E</td><td>2.4-Dichlorophenol</td><td>120-83-2</td><td>ma/ka</td><td>0.39</td><td>U</td><td></td><td></td><td></td><td></td></t<>	8270E	2.4-Dichlorophenol	120-83-2	ma/ka	0.39	U				
24-bittrophenol 5128-5 m3/a 0.75 0.0 0.0 0.0 270E 24-bittrophenol 121-14.2 m3/a 0.39 0 0 0.0 270E 24-bittrophenol 97.57.8 m3/a 0.39 0 0 0 0.0 270E 2-Chorophenol 97.57.8 m3/a 0.39 0 0 0 0 270E 2-Matrydphenol (O-Cresol) 00095-48.7 m3/a 0.39 0 <t< td=""><td>8270E</td><td>2.4-Dimethylphenol</td><td>105-67-9</td><td>ma/ka</td><td>0.39</td><td>UJ</td><td></td><td></td><td></td><td></td></t<>	8270E	2.4-Dimethylphenol	105-67-9	ma/ka	0.39	UJ				
24-Dimitraluseme 121-14-2 mg/ng 0.39 [J 0 0 2870E 2-Abitrandome 04-50-2 mg/ng 0.39 [J 0 2870E 2-Abitrandome 05-57-8 mg/ng 0.39 [J 0 0 2870E 2-Abitrandome 05-57-8 mg/ng 0.39 [J 0 0 2870E 2-Methydhenol (0-Cress) 0005-80-7 mg/ng 0.39 [J 0 0 2870E 2-Methydhenol (0-Cress) 0005-80-7 mg/ng 0.39 [J 0 0 0 2870E 2-Mitrophenol 0875-5 mg/ng 0.39 [J 0 0 0 0 0 2870E 3-Mot A- Muthydhenol (Ctala) METHMENH mg/ng 0.39 [J 0 <td>8270E</td> <td>2,4-Dinitrophenol</td> <td>51-28-5</td> <td>mg/kg</td> <td>0.75</td> <td>UJ</td> <td></td> <td></td> <td></td> <td></td>	8270E	2,4-Dinitrophenol	51-28-5	mg/kg	0.75	UJ				
24-Dimitrationality 666-20-2 marka 0.39 [J []	8270E	2,4-Dinitrotoluene	121-14-2	mg/kg	0.39	U				
2-Chlorongabrituliane 01-58-7 ma/kg 0.39 0 0 0 2870E 2-Chlorophenol 0557.8 ma/kg 0.39 0 0 2870E 2-Methylphonol (O-Cessa) 0009-f.87.7 ma/kg 0.39 0 0 2870E 2-Methylphonol (O-Cessa) 009-f.87.7 ma/kg 0.39 0 0 0 2870E 2-Methylphonol (O-Cessa) 0877.5 ma/kg 0.39 0 0 0 0 2870E 3-Add - Methylphonol (Otal) METHYLMPH Ma/kg 0.39 0	8270E	2,6-Dinitrotoluene	606-20-2	mg/kg	0.39	U				
8270E 2.bitoryophenol 95-57.8 marka 0.39 U Image: Constraint of the second s	8270E	2-Chloronaphthalene	91-58-7	mg/kg	0.39	U			1	
8270E 2-Methylphophthalene 91-57-6 mg/kg 0.19 Image: Constraint of the second secon	8270E	2-Chlorophenol	95-57-8	mg/kg	0.39	U			1	
8270E 2.Mitrophenol 0.0009-88-7 markq 0.39 U Image Image </td <td>8270E</td> <td>2-Methylnaphthalene</td> <td>91-57-6</td> <td>mg/kg</td> <td>0.19</td> <td>U</td> <td></td> <td></td> <td>1</td> <td></td>	8270E	2-Methylnaphthalene	91-57-6	mg/kg	0.19	U			1	
8270E 2-Mitropanine 88-74.4 marks 0.39 U Image	8270E	2-Methylphenol (O-Cresol)	00095-48-7	mg/kg	0.39	U			1	
B270E 2-Nitrophenol B87-5-5 mg/kg 0.39 U Image: Second Seco	8270E	2-Nitroaniline	88-74-4	mg/kg	0.39	U				
3-And 4- Methylphenol (Total) MEPAMEPH4 (mg/kg 0.39 U Image: Constraint of the second	8270E	2-Nitrophenol	88-75-5	mg/kg	0.39	U				
8270E 3.3*Dichlorobenzline 91-94-1 mg/kq 0.39 0 0 0 8270E 3-Nitroaniline 99-09-2 mg/kq 0.39 0 0 0 8270E 4-Bromsphenyl Phenyl Ether 101-55-3 mg/kq 0.39 0 0 0 0 8270E 4-Chioro-3-Methylphenol 59-50-7 mg/kq 0.75 0 0 0 0 8270E 4-Chioro-3-Methylphenol 106-47-8 mg/kq 0.39 0 0 0 0 0 8270E 4-Chioro-Anghyl Phenyl Ether 7005-7.2 mg/kq 0.39 0 <td>8270E</td> <td>3- And 4- Methylphenol (Total)</td> <td>MEPH3MEPH4</td> <td>mg/kg</td> <td>0.39</td> <td>U</td> <td></td> <td></td> <td></td> <td></td>	8270E	3- And 4- Methylphenol (Total)	MEPH3MEPH4	mg/kg	0.39	U				
8270E 3-Nitroaniline 99-09-2 mg/kq 0.39 U Image: Construct of the second seco	8270E	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19	U				
8270E 4.6-Dinitro-2-Methylphenol 534-52.1 mg/kg 0.39 U 8270E 4-Chitoro-3-Methylphenol 59-50.7 mg/kg 0.75 U 8270E 4-Chitoro-3-Methylphenol 106-47-8 mg/kg 0.75 U 8270E 4-Chitoro-Amethylphenol 100-61-6 mg/kg 0.39 U	8270E	3-Nitroaniline	99-09-2	mg/kg	0.39	U				
8270E 4-Bromophenyl Ether 101-55-3 mg/kg 0.39 U Imm	8270E	4,6-Dinitro-2-Methylphenol	534-52-1	mg/kg	0.39	U				
8270E 4-Chloro-3-Methylphenol 59-50-7 mg/kg 0.75 U Image: Second Secon	8270E	4-Bromophenyl Phenyl Ether	101-55-3	mg/kg	0.39	U				
8270E 4-Chloropheryl Phenyl Ether 106-47-8 mg/kg 0.75 U Image: Constraint of the constrai	8270E	4-Chloro-3-Methylphenol	59-50-7	mg/kg	0.75	U				
8270E 4-Nirophenyl Phenyl Ether 7005-72.3 mg/kg 0.39 U Image: Constraint of the second secon	8270E	4-Chloroaniline	106-47-8	mg/kg	0.75	UJ				
8270E 4-Nitroaniline 100-01-7 mg/kg 0.75 U Image: Constraint of the second se	8270E	4-Chlorophenyl Phenyl Ether	7005-72-3	mg/kg	0.39	U				
8270E 4.Nitrophenol 100-02-7 mg/kg 0.75 U Image: Constraint of the second seco	8270E	4-Nitroaniline	100-01-6	mg/kg	0.39	U				
8270E Acenaphthylene 83-32.9 mg/kg 0.19 U Image: Constraint of the second sec	8270E	4-Nitrophenol	100-02-7	mg/kg	0.75	U				
B270E Acenaphthylene 208-63 mg/kg 0.19 Image: Constraint of the second secon	8270E	Acenaphthene	83-32-9	mg/kg	0.19	U				
B2/DE Acetophenone 98-86-2 mg/kg 0.39 U Image: Constraint of the second	8270E	Acenaphthylene	208-96-8	mg/kg	0.19	U				
82/0E Antinace 62-53-3 mg/kg 0.39 [U] Image: Constraint of the second s	8270E	Acetophenone	98-86-2	mg/kg	0.39	U				
B270E Antiracene 120-12-7 mg/kg 0.046 J Image: Constraint of the second	8270E	Aniline	62-53-3	mg/kg	0.39	UJ			<u> </u>	
B270E Alf 2/16 Alf 2/16 Imple interpret interepret interepret interepret interpret interepret interpret intere	8270E	Anthracene	120-12-7	mg/kg	0.046	J				
Bertzalderigde 100-32-7 Ing/kg 0.39 0.3 0 0 0 0 Bertzalderigde 56-55-3 mg/kg 0.26 0 0 0 0 8270E Benzo(A)Apyrene 50-32.8 mg/kg 0.23 0 0 0 0 8270E Benzo(A)Pyrene 205-99-2 mg/kg 0.32 0 0 0 0 8270E Benzo(K)Fluoranthene 207-08-9 mg/kg 0.15 0 0 0 0 8270E Benzy(K)Fluoranthene 207-08-9 mg/kg 0.39 0	8270E	Allazine	1912-24-9	mg/kg	0.76	U 111	1			
Bertzor(A) Humaterie S0-33-S Indy Q 0.02 0	0270E	Denzaldenyde Ponzo(A)Anthracono	TUU-32-7	mg/kg	0.39	00			+	
0270L Defrac(n) Prefer 00-32'0 ind/xg 0.23 ind/xg 0.23 Benzo(B) Fluoranthene 205-99-2 mg/kg 0.32 ind/xg 0.03 ind/xg ind/xg 0.03 8270E Benzo(B) Fluoranthene 207-08-9 mg/kg 0.03 ind/xg ind/xg 0.03 ind/xg ind/xg 0.03 ind/xg ind/xg ind/xg ind/xg ind/xg ind/xg 0.32 ind/xg	8270L	Bonzo(A) Byrono	50 22 8	mg/kg	0.20				+	
Berzol (G,H,I)Perylene 203-77-2 Ind/Xg 0.32 C C C C 8270E Benzol (G,H,I)Perylene 191-24-2 mg/kg 0.083 J C	8270L	Bonzo(B)Eluoranthono	205 00 2	mg/kg	0.23					
0270L Denzo(G), (), () review () re	8270L	Bonzo(C H I)Porviono	101 2/ 2	mg/kg	0.32	1				
Benzyl Butyl Phthalate Bor of Mg/kg 0.19 J 0.19 J 0.19 J 8270E Benzyl Butyl Phthalate 85-68-7 mg/kg 0.39 J 0 0 0 8270E Biphenyl (Diphenyl) 92-52-4 mg/kg 0.76 J 0 0 0 0 8270E Bis (2-Chloroethoxy) Methane 11-91-1 mg/kg 0.39 J 0 0 0 0 8270E Bis (2-Chloroethyl) Ether (2-Chloroethyl Ether) 111-44-4 mg/kg 0.39 J 0 0 0 0 0 8270E Bis (2-Chloroisopropyl) Ether 108-60-1 mg/kg 0.39 J 0 <td>8270E</td> <td>Benzo(K)Fluoranthene</td> <td>207-08-9</td> <td>ma/ka</td> <td>0.005</td> <td>J</td> <td></td> <td></td> <td></td> <td></td>	8270E	Benzo(K)Fluoranthene	207-08-9	ma/ka	0.005	J				
Biphenyl (Diphenyl) 92-52-4 mg/kg 0.76 U Img/kg	8270E	Benzyl Butyl Phthalate	85-68-7	ma/ka	0.39	П	1			
Bis (2-Chloroethoxy) Methane111-91-1mg/kg0.39UImage: Construction of the system o	8270E	Biphenyl (Diphenyl)	92-52-4	ma/ka	0.76	U				
Big 2Big 2Chloroethyl Ether (2-Chloroethyl Ether)111-44-4mg/kg0.39UImage 1Image 2Image 2	8270E	Bis(2-Chloroethoxy) Methane	111-91-1	ma/ka	0.39	U				
8270E Bis(2-Chloroisopropyl) Ether 108-60-1 mg/kg 0.39 U Image: Chloroisopropyl Ether Image: Chloroisopropyl Ether 8270E Bis(2-Ethylhexyl) Phthalate 117-81-7 mg/kg 0.39 U Image: Chloroisopropyl Ether Image: Chloroisopropyl Ether 8270E Bis(2-Ethylhexyl) Phthalate 117-81-7 mg/kg 0.39 U Image: Chloroisopropyl Ether Image: Chloroisopropyl Ether <t< td=""><td>8270E</td><td>Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)</td><td>111-44-4</td><td>mg/ka</td><td>0.39</td><td>U</td><td></td><td></td><td>1</td><td></td></t<>	8270E	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4	mg/ka	0.39	U			1	
8270E Bis(2-Ethylhexyl) Phthalate 117-81-7 mg/kg 0.39 U Image: Constraint of the second sec	8270E	Bis(2-Chloroisopropyl) Ether	108-60-1	mg/ka	0.39	U			1	
8270E Caprolactam 105-60-2 mg/kg 0.39 U Image: Caprolactam Image: Caprolac	8270E	Bis(2-Ethylhexyl) Phthalate	117-81-7	mg/kg	0.39	U	1		1	
8270E Carbazole 86-74-8 mg/kg 0.041 J Image: Constraint of the second	8270E	Caprolactam	105-60-2	mg/kg	0.39	U	1			
8270E Chrysene 218-01-9 mg/kg 0.32 Image: Constraint of the state	8270E	Carbazole	86-74-8	mg/kg	0.041	J				
8270E Dibenz(A,H)Anthracene 53-70-3 mg/kg 0.19 U Image: Constraint of the state of the s	8270E	Chrysene	218-01-9	mg/kg	0.32					
8270E Dibenzofuran 132-64-9 mg/kg 0.39 U	8270E	Dibenz(A,H)Anthracene	53-70-3	mg/kg	0.19	U				
	8270E	Dibenzofuran	132-64-9	mg/kg	0.39	U				



Sample ID Mark Hill Set 20.0 AMS Hill SE 30.0 AMS Hill SE 30.0 AMS Hill SE 30.0 S0.0			Loca	ation ID	AWS-HO	GE-SS-03	AWS-HO	E-SS-03	AWS-HC	GE-SS-03
Intermediate Monitorial SO 2413007 SO 24			Sa	mple ID	AWS-HGE-	SS-03-0.5-2	AWS-HGE-S	SS-03-0-0.5	AWS-HGE	-SS-03-2-4
Lab Sample 10 2413407 2413407 2413407 2413407 2413407 Sample Date Sample Date 8717024 8721024 8217024 8217024 Anolicia Molhol Chamsol Nume Ender Sample 8717024 8717024 8717024 8217024 <			S	0	S	0	S	0		
Storp Storp 24H307 24H307 24H307 24H307 Sample type Code N N N N Andytical Method Cone (a) Mathematical Method Add (a) Mathematical Method N N 20780 Density of Philable. 84.04.2 modul 0.320 Image			24H34	107-02	24H34	07-01	24H34	407-03		
Sample Type Cole PAI PS21/2024 PS21/2024 PS21/2024 Analydud Mehrod Chemical Namo CAS 2RI Unit N N 20705 Diefnyd Phinata B4.60,2 markut 0.89(U) Imarkut Imarkut 20705 Diefnyd Phinata B1.11.11 markut 0.89(U) Imarkut Imarkut 20705 Diefnyd Phinata B1.74.1 markut 0.89(U) Imarkut Imarkut 20705 Hoacafkorobarceno B7.74.1 markut 0.87(U) Imarkut Imarkut 20706 Hoacafkorobarceno B7.74.1 markut 0.39(U) Imarkut Imarkut 20706 Hoacafkorobarceno B7.74.1 markut 0.39(U) Imarkut Imarkut 20706 Hoacafkorobarceno B7.74.1 markut 0.39(U) Imarkut Imarkut 20706 Networkhorobarceno B7.93.1 markut 0.39(U) Imarkut Imarkut 20706 Networkhorobarceno B7.93.1 markut		SDG					24H3407		24H3407	
Image: Type: Code N N N 28706 Diethyf Mrhalste 84.66.21 mgAg 0.39[U Image: Type Code Image: Type Cod			Sam	ole Date	8/21/	/2024	8/21/	/2024	8/21/	/2024
Analysical NetholeChemical NameCAS, NNUnitUnitUnitUnit10700Olivhly Pithalais131-13mg/kg0.390.3900010700Olivh Marky Pithalais117-14mg/kg0.390000010700Olivh Marky Pithalais117-14mg/kg0.3900 <td< td=""><td></td><td></td><td>Sample Ty</td><td>pe Code</td><td>1</td><td>N</td><td>r</td><td>N</td><td>1</td><td>Ν</td></td<>			Sample Ty	pe Code	1	N	r	N	1	Ν
Bathy Physics Bithy Ph	Analytical Method	Chemical Name	CAS_RN	Unit						
20706 Ohmshyl Phihala 111-13 mg/ag 0.39 0.39 0 0 20706 Oh-Nedyl Phihala 117.84.0 mg/ag 0.39 0 0 20706 Oh-Nedyl Phihala 117.84.0 mg/ag 0.37 0 0 0 20706 Flooranthem 266-4.0 mg/ag 0.39 0 0 0 20706 Flooranthem 266-4.0 mg/ag 0.39 0 0 0 20706 Heachtonobuladorin 07.94.3 mg/ag 0.39 0 0 0 0 20706 Heachtonobuladorin 07.94.3 mg/ag 0.39 0 <	8270E	Diethyl Phthalate	84-66-2	mg/kg	0.39	U				
B270E Di-N-Buty Phythabia B474-2 mp/kg 0.39 U D B270E Di-N-Octyphithabia 117-84-0 mp/kg 0.37 D B270E Fluorente 200-44.0 mp/kg 0.37 D D B270E Fluorente 867.37 mp/kg 0.39 U D B270E Heaschlorobulation 87.42.1 mp/kg 0.39 U D B270E Heaschlorobulation 87.42.1 mp/kg 0.39 U D D B270E Heaschlorobulation 77.47.4 mp/kg 0.39 U D D B270E Indentify 3.42.5 mp/kg 0.39 U D D B270E Indentify 3.42.5 mp/kg 0.39 U D D D B270E Prinadhorophonen 82.04.6 mp/kg 0.39 U D D D B270E Prinadhorophonen 82.04.6 mp/kg<	8270E	Dimethyl Phthalate	131-11-3	mg/kg	0.39	U				
B270E DN-0C3/phthlaide 117-84-0 mg/kg 0.97 Image: Constraint of the second o	8270E	Di-N-Butyl Phthalate	84-74-2	mg/kg	0.39	U				
E270E Fluoranteme 206-44.0 mg/kg 0.57 mg/kg 0.19 2070E Fluoranteme 18-74.1 mg/kg 0.39 U 2070E Hexachtorobusteme 77.44 mg/kg 0.39 U 2070E Hexachtorobusteme 77.47.4 mg/kg 0.39 U 2070E Hexachtorobusteme 67.72.1 mg/kg 0.39 U 2070E Hexachtorobusteme 607.55.41 mg/kg 0.39 U 2070E Kaphorate 607.55.41 mg/kg 0.39 U 2070E Kaphorate 607.5.4 mg/kg 0.39 U 2070E Naphorate 61.4.4.7 mg/kg 0.39 U 2070E Presonathrono 89.0-8 mg/kg 0.39 U 2070E Presonathrono 89.0-8	8270E	Di-N-Octylphthalate	117-84-0	mg/kg	0.39	U				
Barteme Barton Barton Barton Barton Barton Barton B270E Hexathbrokutatiene 87.66.3 mydrg 0.39 U B270E Hexathbrokutatiene 87.66.3 mydrg 0.39 U B270E Hexathbrokutatiene 67.72.1 mydrg 0.39 U B270E Hexathbrokutatiene 67.72.1 mydrg 0.39 U B270E Indered (1.2.3.C)Pyrene 0.95.95.3 mydrg 0.39 U B270E Nationad-M-Proputation 62.44.7 mydrg 0.39 U B270E Nationad-M-Proputation 62.65.6 mydrg 0.39 U B270E Nationad-M-Proputation 62.65.7 mydrg 0.39 U B270E Paticathorphenol 82.61 mydrg 0.39 U	8270E	Fluoranthene	206-44-0	mg/kg	0.57					
B270E Heachborbanzene 118-74-1 mg/kg 0.39 U Image of the scale	8270E	Fluorene	86-73-7	mg/kg	0.19	U				
8270E Heazhbrochziegendalene 77.47.4 mg/kg 0.39 0.0 0.0 8270E Heazhbrocychegendalene 67.72.1 mg/kg 0.39 0.0 0.0 8270E Heazhbrocychegendalene 67.72.1 mg/kg 0.39 0.0 0.0 8270E Isphorone 0078.59.1 mg/kg 0.39 0.0 0.0 8270E Nubhthalme 0170.5.3 mg/kg 0.39 0.0 0.0 0.0 8270E Nubhthalme 0170.4.7.3 mg/kg 0.39 0.0 0.0 0.0 8270E Nutrosofily-Programine 621.64.7.1 mg/kg 0.39 0.0 0.0 0.0 8270E Pentachtrorphenol 87.65.5.2 mg/kg 0.39 0.0	8270E	Hexachlorobenzene	118-74-1	mg/kg	0.39	U				
B270E Hoxablorosyclopentaline [77-47.4 marka 0.39 U Image: Constraint of the constra	8270E	Hexachlorobutadiene	87-68-3	mg/kg	0.39	U				
B270E Hoxachinorithane 67-72-1 mg/kg 0.39 u 0 B270E Inden(1, 2-5, C)Pyrene 00078-59-1 mg/kg 0.39 u 0 B270E Isophrone 0178-59-1 mg/kg 0.39 u 0 B270E Naphthalene 01-03 mg/kg 0.39 u 0 B270E Natrosadipherylamine 62-64-7 mg/kg 0.39 u 0 B270E N-Nitrosadi-N-Programme 86-30-6 mg/kg 0.39 u 0 B270E Pentachinorphanel 87-86-5 mg/kg 0.39 u 0 0 B270E Pentachinorphanel 106-95-2 mg/kg 0.39 u 0 0 B270E Pentachinorphanel 106-95-2 mg/kg 0.39 u 0 0 B270E Pentachinorphanel 106-10 mg/kg 0.39 u 0 0 B270E Pyrine 102-00-0 mg/kg 0.79 u 0 0 B270E Pyrine 501,0 %	8270E	Hexachlorocyclopentadiene	77-47-4	mg/kg	0.39	UJ				
B270E Inden(1, 2.3-C,D)Fyrene 0078-59-1 mg/kq 0.39 U B270E Naphthalene 91-20.3 mg/kq 0.39 U B270E Naphthalene 91-20.3 mg/kq 0.39 U B270E N-Mitrosogle/N-ProyAmine 62-164-7 mg/kq 0.39 U B270E Pentachbrorphenol 87.66 5.91 mg/kq 0.39 U B270E Pencenthrone 85.01-8 mg/kq 0.39 U	8270E	Hexachloroethane	67-72-1	mg/kg	0.39	U				
8270E Isophrone 0078-59-1 mg/kg 0.39 U 8270E Mapthalene 91-20.3 mg/kg 0.39 U 8270E Nitroscolphenylamine 627-64-7 mg/kg 0.39 U 8270E N-Mitroscolphenylamine 67-86-5 mg/kg 0.39 U 8270E Pentachlorophenol 67-86-5 mg/kg 0.37 U 8270E Pentantirene 106-95-2 mg/kg 0.38 U <t< td=""><td>8270E</td><td>Indeno(1,2,3-C,D)Pyrene</td><td>193-39-5</td><td>mg/kg</td><td>0.15</td><td>J</td><td></td><td></td><td></td><td></td></t<>	8270E	Indeno(1,2,3-C,D)Pyrene	193-39-5	mg/kg	0.15	J				
9270E Naphthelene 91-20-3 mg/kg 0.19 8270E Nitrobeorene 99-95-3 mg/kg 0.39 8270E Nitrobeorene 62-64-7 mg/kg 0.39 8270E Nentosodiphenylamine 62-66-6 mg/kg 0.39 8270E Pentachicrophenol 87-86-5 mg/kg 0.39 8270E Phenol 100-85-2 mg/kg 0.39 8270E Pyrene 129:00-0 mg/kg 0.39 </td <td>8270E</td> <td>Isophorone</td> <td>00078-59-1</td> <td>mg/kg</td> <td>0.39</td> <td>U</td> <td></td> <td></td> <td></td> <td></td>	8270E	Isophorone	00078-59-1	mg/kg	0.39	U				
Birtosouth-Propylamine 98-95.3 mg/kg 0.39 U Image Im	8270E	Naphthalene	91-20-3	mg/kg	0.19	U				
S270E N-Nitrosodi-N-Programme 621-64-7 mp/kg 0.30 U Image S270E Nitrosodi-N-Programme 86-30.6 mp/kg 0.39 U Image <	8270E	Nitrobenzene	98-95-3	mg/kg	0.39	U				
Bit Processing Performance Bs-0.6 mg/kg 0.39 U Participation B270E Pentachirosphenol B7-86-5 mg/kg 0.39 U Participation B270E Phenol 108-95-2 mg/kg 0.39 U Participation B270E Phrenol 108-95-2 mg/kg 0.39 U Participation B270E Pyrene 129-00-0 mg/kg 0.39 U Participation B270E Pyreline 110-86-1 mg/kg 0.39 U Participation B270E Solids, Percent Soludo 86.7 72.9 86.2 E1633 11-H1, P.2, PL-Perfluorobcane sulfonic add 7214-72-4 up/kg 0.79 U Participation E1633 2.1, H1, P.1, P.2, Perfluorobcane sulfonic add 7214-72-4 up/kg 0.79 U Participation E1633 2.1, Henthyl perfluoro-1-octanesulfonamido)-ethanol 1449-97-7 up/kg 0.79 U Participation Participation Participation	8270E	N-Nitrosodi-N-Propylamine	621-64-7	mg/kg	0.39	U				
Bit Performant	8270E	N-Nitrosodiphenylamine	86-30-6	mg/kg	0.39	U				
B270E Phenal mp/kg 0.37 mp/kg 0.39	8270E	Pentachlorophenol	87-86-5	ma/ka	0.39	UJ				
9270E Phenol 108-95-2 mg/kg 0.39 U Image: Construction of the second of the	8270E	Phenanthrene	85-01-8	ma/ka	0.37					
9270E Pyrene 129-00-0 mg/kg 0.58 8270E Pyrdine 110-86-1 mg/kg 0.39 U 8270E Solids, Percent SOLID % 86.7 72.9 86.2 E1633 11-Choroeicosafuror-3-0xaundecane-1-Sulfonic Acid 75005 0.79 U E1633 11.H.1H.2, J.4.P-Berfluorodcane sulfonic acid 97104-72-2 ug/kg 0.79 U E1633 11.H.1H.2, J.4.Perfluoron-1-octane sulfonic acid 27619-77-2 ug/kg 0.79 U E1633 2.(Me-thyl perfluoro-1-octanesulfonamido)-ethanol 1691-97-2 ug/kg 2.U E1633 2.H2.H3.3.H2-effluorooctanoic acid 816/07-7 ug/kg 2.U E1633 3.Perfluoroprophyl propanoic acid 812.70-4 ug/kg 9.9 E1633 3.Perfluoroprophyloprophyloc acid 815.02-5 ug/kg 0.79	8270E	Phenol	108-95-2	ma/ka	0.39	U				
B270E Pyridine 110-36-1 mg/kg 0.39 UJ Processes A2540G Solids, Percent SOLID % 66.7 72.9 86.2 E1633 11-Chiroceicosafluoro-3-Oxaundecane-1-Sulfonic Acid 78/3051-92.9 ug/kg 0.79 U E1633 1H,1H, 2H, 2H-Perfluorobacane sulfonic acid 77/124-72-4 ug/kg 0.79 U E1633 1H,1H, 2H, 2H-Perfluorobacane sulfonic acid 77/124-72-4 ug/kg 0.79 U E1633 2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol 1691-97-2 ug/kg 2,U E1633 2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol 24448-09-7 ug/kg 9,9 U E1633 3-Perfluoropherphyl propanoic acid 8127-04 ug/kg 9,9 U E1633 4-Diora-Ashperfluorononanola caid (ADONA) 919005-14-4 ug/kg 0.79 U E1633 9-Chirorhexadecafluoro-3-Oxanonane-1-Sulfon	8270E	Pyrene	129-00-0	ma/ka	0.58	•				
A2540G Solids, Percent SOLID 9, "" 86.7 72.9 86.2 E1633 11-Chloroelcosafluoro-3-Oxaundecane-1-Sulfonic Acid 763051-92-9 0ydyg 0.79	8270E	Pvridine	110-86-1	ma/ka	0.39	UJ				
E1633 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid 763051-92-9 ug/kg 0.79 U 0.78 E1633 11H, HL, 2H, 2H-Perfluorobecane sulfonic acid 39108-34-4 ug/kg 0.79 U 0.78 E1633 11H, HL, 2H, 2H-Perfluorobecane sulfonic acid 757124-72-4 ug/kg 0.79 U 0.79 0 E1633 12-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol 1691-99-2 ug/kg 2 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.79 0 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.79 0 0.78	A2540G	Solids. Percent	SOLID	%	86.7		72.9		86.2	
E1633 1H, 1H, 2H, 2H, Perfluorodecane sulfonic acid 39108-34-4 ug/kg 0.79 U E1633 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid 757124-172-4 ug/kg 0.79 U E1633 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid 27619-97-2 ug/kg 0.79 U E1633 2. (W-ethyl perfluoro-1-octanesulfonamido)-ethanol 1691-99-2 ug/kg 2.0 E1633 2. (W-ethyl perfluoro-1-octanesulfonamido)-ethanol 1691-99-2 ug/kg 9.0 E1633 2. (W-ethyl perfluoro-1-octanesulfonamido)-ethanol 12448-09-7 ug/kg 9.0 E1633 3Perfluoronopropyl propanoic acid 812-70-4 ug/kg 9.9 U E1633 3Perfluoropropyl propanoic acid 812-70-4 ug/kg 0.79 U E1633 4.B-Dioxa-3H-perfluorononanoic acid 1919005-14.4 ug/kg 0.79 U <	E1633	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	ua/ka	0.79	U				
E1633 1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid 767124-72-4 ug/kg 0.79 0 E1633 1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid 27619-77-2 ug/kg 0.79 0 E1633 2-(N-enthyl perfluoro-1-octanesulfonamido)-ethanol 1691-99-2 ug/kg 2 0 E1633 2-(N-enthyl perfluoro-1-octanesulfonamido)-ethanol 24484-09-7 ug/kg 2 0 E1633 2-(N-enthyl perfluoro-1-octanesulfonamido)-ethanol 24484-09-7 ug/kg 9.9 0 E1633 2-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 9.9 0 0 E1633 3-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 0.79 0 0 E1633 4-B-Dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 ug/kg 0.79 0 0 E1633 9-Chiorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 ug/kg 0.79 0 0 E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 ug/kg 0.2 0 0 E1633 N-ethyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6	E1633	1H.1H. 2H. 2H-Perfluorodecane sulfonic acid	39108-34-4	ua/ka	0.79	U				
E1633 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid 27619-97-2 ug/kg 0.79 U E1633 2-(N-ettryl perfluoro-1-octanesulfonamido)-ethanol 1691-97-2 ug/kg 2 U E1633 2-(N-ettryl perfluoro-1-octanesulfonamido)-ethanol 24448-09-7 ug/kg 2 U E1633 2H,2H,3H,3H-Perfluorooctanoic acid 914637-49-3 ug/kg 9.9 U E1633 3-Perfluoropropyl propanoic acid 812-70-4 ug/kg 9.9 U E1633 3-Perfluoropropyl propanoic acid 812-70-4 ug/kg 0.79 U E1633 4,8-Dioxa-3H-perfluoronanoic acid (ADONA) 919005-14-4 ug/kg 0.79 U E1633 4,8-Dioxa-3H-perfluoronanoic acid (HPO-DA) 13252-13-6 ug/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 ug/kg 0.2 UJ E1633 N-ethyl perfluoroctanesulfonamidoacetic acid	E1633	1H.1H. 2H. 2H-Perfluorohexane sulfonic acid	757124-72-4	ua/ka	0.79	U				
E1633 2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol 1691-99-2 ug/kg 2 U E1633 2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol 24448-09-7 ug/kg 2 U E1633 2-H,2H,3H,3H-Perfluorooctanoic acid 914637-49-3 ug/kg 9,9 U E1633 3-Perfluoropheptyl propanoic acid 812-70-4 ug/kg 9,9 U E1633 3-Perfluoropheptyl propanoic acid 812-70-4 ug/kg 9,9 U E1633 3-Perfluoropheptyl propanoic acid 812-70-4 ug/kg 0.79 U E1633 4.8-Dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 ug/kg 0.79 U E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 ug/kg 0.2 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-60-2 ug/kg 0.2 U E1633 N-ethyl perfluoro-1-octanesulfonamide 31506-32-8 ug/kg 0.2 U	E1633	1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid	27619-97-2	ua/ka	0.79	U				
E1633 2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol 24448-09-7 ug/kg 2 U E1633 21-2H,3H,3H-Perfluoroctanoic acid 9144837-49-3 ug/kg 9.9 U E1633 3-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 9.9 U E1633 3-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 2 U E1633 3-Perfluoropropyl propanoic acid 812-70-4 ug/kg 0.79 U E1633 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 ug/kg 0.79 U E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 ug/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 ug/kg 0.2 U E1633 N-ethyl perfluoro-1-octanesulfonamideacetic acid 2991-50-6 ug/kg 0.2 U E1633 Nonafluoro-3,6-dioxehptanoic acid 1570-52-2 ug/kg 0.2 U </td <td>E1633</td> <td>2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol</td> <td>1691-99-2</td> <td>ua/ka</td> <td>2</td> <td>U</td> <td></td> <td></td> <td></td> <td></td>	E1633	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ua/ka	2	U				
E1633 2H, 3H, 3H-Perfluorooctanoic acid 914637-49-3 ug/kg 9.0 0 0 E1633 3-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 9.9 0 0 E1633 3-Perfluoroheptyl propanoic acid 812-70-4 ug/kg 9.9 0 0 E1633 3-Perfluoronopanoic acid 816-02-5 ug/kg 0.79 0 0 E1633 4.8-Dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 ug/kg 0.79 0 0 E1633 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 ug/kg 0.79 0 0 0 E1633 N-ethyl perfluor-o-to-actanesulfonamide 4151-50-2 ug/kg 0.2 0.2 0	E1633	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	2	Ŭ				
E1633 3-Perfluoroheptyl propanoic acid 812-70-4 Ug/kg 9.9 U E1633 3-Perfluoropropyl propanoic acid 356-02-5 Ug/kg 2.0 E1633 4,8-Dioxa-3H-perfluoronanoic acid (ADONA) 919005-14-4 Ug/kg 0.79 U E1633 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 Ug/kg 0.79 U E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 Ug/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 Ug/kg 0.2 UJ E1633 N-ethyl perfluoro-1-octanesulfonamide 31506-32-8 Ug/kg 0.2 UJ E1633 N-methyl perfluoro-1-octanesulfonamide 31506-32-8 Ug/kg 0.2 UJ <td< td=""><td>E1633</td><td>2H.2H.3H.3H-Perfluorooctanoic acid</td><td>914637-49-3</td><td>ua/ka</td><td>9.9</td><td>U</td><td></td><td></td><td></td><td></td></td<>	E1633	2H.2H.3H.3H-Perfluorooctanoic acid	914637-49-3	ua/ka	9.9	U				
E1633 3-Perfluoropropyl propanolc acid 356-02-5 Ug/kg 2U E1633 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) 919005-14-4 Ug/kg 0.79 U E1633 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 Ug/kg 0.79 U E1633 9-Chlorohexadecafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 Ug/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 Ug/kg 0.2 U E1633 N-ethyl perfluoro-1-octanesulfonamide 2991-50-6 Ug/kg 0.2 U E1633 N-methyl perfluoro-1-octanesulfonamideacetic acid 2991-50-6 Ug/kg 0.2 U E1633 N-methyl perfluoro-1-octanesulfonamideacetic acid 2991-50-6 Ug/kg 0.2 U	E1633	3-Perfluoroheptyl propanoic acid	812-70-4	ua/ka	9.9	U				
E1633 4,8-Dioxa-3H-perfluoronanoic acid (ADONA) 919005-14-4 Igr/sg 0.79 U E1633 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid 756426-58-1 Igr/kg 0.79 U E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 Igr/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 Igr/kg 0.2 UJ E1633 N-ethyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Igr/kg 0.2 UJ E1633 N-ethyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Igr/kg 0.2 UJ E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Igr/kg 0.2 UJ E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 1990/53-24-8 Igr/kg 0.2 UJ E1633 Nonafluoro-3,6-dioxaheptanoic acid 113507-82-7 Igr/kg 0.4 U E1633 Perfluoro-4-methoxyporpanoic acid 377-73-1 Igr/kg 0.4 U E1633 Perfluoro-4-me	E1633	3-Perfluoropropyl propanoic acid	356-02-5	ua/ka	2	U				
E1633 9-Chlorohexadecafluoro-3-0xanonane-1-Sulfonic Acid 756426-58-1 µg/kg 0.79 U E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 µg/kg 0.79 U E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 µg/kg 0.2 UJ E1633 N-ethyl perfluoro-1-octanesulfonamidacetic acid 2991-50-6 µg/kg 0.2 UJ E1633 N-methyl perfluoro-1-octanesulfonamidacetic acid 2991-50-6 µg/kg 0.2 UJ E1633 N-methyl perfluoro-1-octanesulfonamidacetic acid 1950-32-8 µg/kg 0.2 UJ E1633 N-methyl perfluoro-3,6-dioxaheptanoic acid 1151772-58-6 µg/kg 0.4 U	E1633	4.8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ua/ka	0.79	U				
E1633 Hexafluoropropylene oxide dimer acid (HFPO-DA) 13252-13-6 Ug/kg 0.79 U L E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 Ug/kg 0.2 U L E1633 N-ethyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Ug/kg 0.2 U L E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Ug/kg 0.2 U L E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Ug/kg 0.2 U L E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2955-31-9 Ug/kg 0.2 U L L E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 Ug/kg 0.4 U L <td>E1633</td> <td>9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid</td> <td>756426-58-1</td> <td>ua/ka</td> <td>0.79</td> <td>U</td> <td></td> <td></td> <td></td> <td></td>	E1633	9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	ua/ka	0.79	U				
E1633 N-ethyl perfluoro-1-octanesulfonamide 4151-50-2 Ug/kg 0.2 U E1633 N-ethyl perfluoroctanesulfonamidoacetic acid 2991-50-6 Ug/kg 0.2 U E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2991-50-6 Ug/kg 0.2 U E1633 N-methyl perfluoro-1-octanesulfonamidoacetic acid 2355-31-9 Ug/kg 0.2 U E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 Ug/kg 0.4 U E1633 Perfluoro-3-methoxyethane)sulfonic acid 113507-82-7 Ug/kg 0.4 U E1633 Perfluoro-4-methoxyptopanoic acid 377-73-1 Ug/kg 0.4 U	E1633	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ua/ka	0.79	U				
E1633 N-ethyl perfluoroctanesulfonamidoacetic acid 2991-50-6 ug/kg 0.2 U E1633 N-methyl perfluoro-1-octanesulfonamide 31506-32-8 ug/kg 0.2 UJ E1633 N-methyl perfluoroctanesulfonamidoacetic acid (NMeFOSAA) 2355-31-9 ug/kg 0.2 UJ E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 ug/kg 0.4 U E1633 Perfluoro-2-ethoxyethane)sulfonic acid 113507-82-7 ug/kg 0.4 U E1633 Perfluoro-3-methoxypropanoic acid 377-73-1 ug/kg 0.4 U E1633 Perfluoro-4-methoxybutanoic acid 863090-89-5 ug/kg 0.4 U E1633 Perfluorobutanesulfonic acid (PFBS) 375-73-5 ug/kg 0.4 U	E1633	N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	ua/ka	0.2	UJ				
E1633 N-methyl perfluoro-1-octanesulfonamide 31506-32-8 ug/kg 0.2 UJ E1633 N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) 2355-31-9 ug/kg 0.2 U E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 ug/kg 0.4 U E1633 Perfluoro(2-ethoxyethane)sulfonic acid 113507-82-7 ug/kg 0.4 U <	E1633	N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	ua/ka	0.2	U				
E1633 N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) 2355-31-9 ug/kg 0.2 U E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 ug/kg 0.4 U E1633 Perfluoro(2-ethoxyethane)sulfonic acid 113507-82-7 ug/kg 0.4 U E1633 Perfluoro-3-methoxypropanoic acid 377-73-1 ug/kg 0.4 U E1633 Perfluoro-4-methoxybutanoic acid 863090-89-5 ug/kg 0.4 U <td>E1633</td> <td>N-methyl perfluoro-1-octanesulfonamide</td> <td>31506-32-8</td> <td>ua/ka</td> <td>0.2</td> <td>U.J</td> <td></td> <td></td> <td></td> <td></td>	E1633	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	ua/ka	0.2	U.J				
E1633 Nonafluoro-3,6-dioxaheptanoic acid 151772-58-6 ug/kg 0.4 U E1633 Perfluoro(2-ethoxyethane)sulfonic acid 113507-82-7 ug/kg 0.4 U E1633 Perfluoro-3-methoxypropanoic acid 377-73-1 ug/kg 0.4 U E1633 Perfluoro-4-methoxybutanoic acid 863090-89-5 ug/kg 0.4 U	E1633	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ua/ka	0.2	U				
E1633 Perfluoro(2-ethoxyethane)sulfonic acid 113507-82-7 ug/kg 0.4 U Image: Second S	E1633	Nonafluoro-3.6-dioxaheptanoic acid	151772-58-6	ua/ka	0.4	U				
E1633 Perfluoro-3-methoxypropanoic acid 377-73-1 ug/kg 0.4 U Image: Constraint of the system of the syste	E1633	Perfluoro(2-ethoxvethane)sulfonic acid	113507-82-7	ua/ka	0.4	U				
E1633Perfluoro-4-methoxybutanoic acid863090-89-5ug/kg0.4UE1633Perfluorobutanesulfonic acid (PFBS)375-73-5ug/kg0.2UE1633Perfluorobutanoic Acid375-22-4ug/kg0.79UE1633Perfluorobutanoic acid (PFDS)335-77-3ug/kg0.037JE1633Perfluorodecanesulfonic acid (PFDS)335-76-2ug/kg0.1JE1633Perfluorodecanoic acid (PFDA)335-76-2ug/kg0.1JE1633Perfluorododecanoic acid (PFDOS)79780-39-5ug/kg0.2UE1633Perfluorododecanoic acid (PFDOS)307-55-1ug/kg0.037JE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037JE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037JE1633Perfluorobeptanesulfonic acid (PFDA)307-55-1ug/kg0.02UE1633Perfluorobeptanesulfonic acid (PFDA)307-55-1ug/kg0.2U	E1633	Perfluoro-3-methoxypropanoic acid	377-73-1	ua/ka	0.4	U				
E1633Perfluorobutanesulfonic acid (PFBS)375-73-5ug/kg0.2UE1633Perfluorobutanoic Acid375-22-4ug/kg0.79UE1633Perfluorodecanesulfonic acid (PFDS)335-77-3ug/kg0.037JE1633Perfluorodecanoic acid (PFDA)335-76-2ug/kg0.1JE1633Perfluorododecanesulfonic acid (PFDOS)79780-39-5ug/kg0.2UE1633Perfluorododecanoic acid (PFDOS)79780-39-5ug/kg0.2UE1633Perfluorododecanoic acid (PFDOA)307-55-1ug/kg0.037JE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037JE1633Perfluoroheptanesulfonic acid (PFDA)375-92-8ug/kg0.2U	E1633	Perfluoro-4-methoxybutanoic acid	863090-89-5	ug/ka	0.4	U			1	
E1633Perfluorobutanoic Acid375-22-4ug/kg0.79UE1633Perfluorodecanesulfonic acid (PFDS)335-77-3ug/kg0.037JE1633Perfluorodecanoic acid (PFDA)335-76-2ug/kg0.1JE1633Perfluorodecanesulfonic acid (PFDOS)79780-39-5ug/kg0.2UE1633Perfluorodecanoic acid (PFDA)307-55-1ug/kg0.037JE1633Perfluorodecanoic acid (PFDOA)307-55-1ug/kg0.037JE1633Perfluorodecanoic acid (PFDA)307-55-1ug/kg0.037JE1633Perfluorodecanoic acid (PFDA)375-92-8ug/kg0.2U	E1633	Perfluorobutanesulfonic acid (PFBS)	375-73-5	ua/ka	0.2	U				
E1633Perfluorodecanesulfonic acid (PFDS)335-77-3ug/kg0.037 JE1633Perfluorodecanoic acid (PFDA)335-76-2ug/kg0.1 JE1633Perfluorododecanesulfonic acid (PFDOS)79780-39-5ug/kg0.2 UE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037 JE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037 JE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.02 UE1633Perfluoroheptanesulfonic acid (PFHpS)375-92-8ug/kg0.2 U	E1633	Perfluorobutanoic Acid	375-22-4	ua/ka	0.79	U			1	
E1633Perfluorodecanoic acid (PFDA)335-76-2ug/kg0.1 JE1633Perfluorododecanesulfonic acid (PFDOS)79780-39-5ug/kg0.2 UE1633Perfluorododecanoic acid (PFDA)307-55-1ug/kg0.037 JE1633Perfluoroheptanesulfonic acid (PFHpS)375-92-8ug/kg0.2 U	E1633	Perfluorodecanesulfonic acid (PFDS)	335-77-3	ua/ka	0.037	J			1	
E1633Perfluorododecanesulfonic acid (PFDOS)79780-39-5ug/kg0.2UE1633Perfluorododecanoic acid (PFDoA)307-55-1ug/kg0.037JE1633Perfluoroheptanesulfonic acid (PFHpS)375-92-8ug/kg0.2U	E1633	Perfluorodecanoic acid (PFDA)	335-76-2	ua/ka	0.1	J			1	
E1633 Perfluorododecanoic acid (PFDoA) 307-55-1 ug/kg 0.037 J E1633 Perfluoroheptanesulfonic acid (PFHpS) 375-92-8 ug/kg 0.2 U	E1633	Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	ua/ka	0.2	U			1	
E1633 Perfluoroheptanesulfonic acid (PFHpS) 375-92-8 ug/kg 0.2 U	E1633	Perfluorododecanoic acid (PFDoA)	307-55-1	ug/ka	0.037	J			1	
	E1633	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ua/ka	0.2	U			1	



Location ID					AWS-HGE-SS-03 AWS-HGE-SS-03			AWS-HGE-SS-03		
Sample ID					AWS-HGE-SS-03-0.5-2		AWS-HGE-SS-03-0-0.5		AWS-HGE-SS-03-2-4	
Matrix				S	0	SO		SO		
		Lab Sa	DI elam	24H34	24H3407-02		07-01	24H3407-03		
			SDG	24H3	3407	24H	3407	24H3407		
		Sam	ole Date	8/21/	/2024	8/21/	/2024	8/21/	/2024	
		Sample Tv	be Code	ſ	N	1	N	1	N	
Analytical Method	Chemical Name	CAS_RN	Unit							
E1633	Perfluoroheptanoic acid (PFHpA)	375-85-9	uq/kq	0.1	J					
E1633	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	0.2	U					
E1633	Perfluorohexanoic acid (PFHxA)	307-24-4	ug/kg	0.17	J					
E1633	Perfluorononanesulfonic Acid (PFNS)	68259-12-1	ug/kg	0.2	U					
E1633	Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	0.11	J					
E1633	Perfluorooctane Sulfonamide (FOSA)	754-91-6	ug/kg	0.2	U					
E1633	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	0.93						
E1633	Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	0.33						
E1633	Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	ug/kg	0.2	U					
E1633	Perfluoropentanoic Acid (PFPeA)	2706-90-3	ua/ka	0.16	JN					
E1633	Perfluorotetradecanoic acid (PFTA)	376-06-7	ua/ka	0.2	U					
E1633	Perfluorotridecanoic Acid (PFTriA/PFTrDA)	72629-94-8	ua/ka	0.2	U					
E1633	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ua/ka	0.031	J					
SW6010D	Aluminum	7429-90-5	ma/ka	8900	-	8300		11000		
SW6010D	Antimony	7440-36-0	ma/ka	1.9	U	2.2	U	1.9	U	
SW6010D	Arsenic	7440-38-2	mg/kg	7.8		9.1	-	7.2	-	
SW6010D	Barium	7440-39-3	mg/kg	92		86		110		
SW6010D	Beryllium	7440-41-7	mg/kg	0.58		0.56		0.46		
SW6010D	Boron	7440-42-8	mg/kg	1.9	J	2.6	J	1.8	J	
SW6010D	Cadmium	7440-43-9	mg/kg	0.32	J	0.47		0.18	J	
SW6010D	Calcium	7440-70-2	mg/kg	3600		4200		1500		
SW6010D	Chromium, Total	7440-47-3	mg/kg	11		11		11		
SW6010D	Cobalt	7440-48-4	mg/kg	7.7		8.4		6.9		
SW6010D	Copper	7440-50-8	mg/kg	21		20		21		
SW6010D	Iron	7439-89-6	mg/kg	18000		18000		18000		
SW6010D	Lead	7439-92-1	mg/kg	62		55		40		
SW6010D	Magnesium	7439-95-4	mg/kg	2200		2200		2200		
SW6010D	Manganese	7439-96-5	mg/kg	500		500		680		
SW6010D	Nickel	7440-02-0	mg/kg	15		16		14		
SW6010D	Potassium	7440-09-7	mg/kg	860		900		770		
SW6010D	Selenium	7782-49-2	mg/kg	3.8	U	4.4	U	3.8	U	
SW6010D	Silver	7440-22-4	mg/kg	0.38	U	0.44	U	0.38	U	
SW6010D	Sodium	7440-23-5	mg/kg	190	U	220	U	190	U	
SW6010D	Thallium	7440-28-0	mg/kg	1.9	U	2.2	U	1.9	U	
SW6010D	Vanadium	7440-62-2	mg/kg	14		12		16		
SW6010D	Zinc	7440-66-6	mg/kg	87		100		75		
SW7471B	Mercury	7439-97-6	mg/kg	0.14		0.11		0.18		
SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	mg/kg	0.057	U					





APPENDIX F BEST MANAGEMENT PRACTICES

A Property Owner's Guide _____ to Site Management in Corning, New York

Have immediate questions or concerns? Call the project hotline at 833-770-1716



Department of Environmental Conservation

This guide provides a summary of the Site Management Plan (SMP) that describes the ongoing and planned work throughout Corning and highlights information especially relevant to property owners.

Site Management Plan

You can view the entire SMP online at https://www.dec.ny.gov/chemical/97180.html or in person at the DEC Region 8 office, at the Southeast Steuben County Library, or Corning Incorporated.

The primary types of industrial wastes that have been identified throughout the Corning area are referred to as ABG because it consists of ash, brick, and glass. These materials are of concern to the DEC because they represent a potential human health hazard. If you observe ABG on your property or elsewhere in the area, please do not disturb the material and contact the DEC immediately.

Contact information

Email: <u>PublicAvailability.Corning@Parsons.com</u> Project Hotline: 833-770-1716 Samantha Salotto, PE, DEC Project Manager (518)402-9903 <u>Samantha.salotto@dec.ny.gov</u> Scott Williams, DEC Construction Inspector (585)773-8034 <u>scott.williams@dec.ny.gov</u>
What is ABG?

ABG waste is usually uncompacted and loose and can appear both concentrated in layers and distributed sporadically throughout the soil column.

Ash: colors vary and may include black, gray, orange, and white.

Brick: types include red construction brick, white or yellow refractory brick, and puzzle-piece brick. **Glass:** highly variable and may include glass cullet (fragments indiscernible from a finished product),tubing, lenses, electrical ware, uranium glass (yellow, yellow-green, or green cullet that fluoresces green under ultraviolet light), and trademarked/patented products (embossed with "Pyrex," Corningware," or other trademarks or patent numbers). A comprehensive identification manual is available on the DEC website to help property owners and other stakeholders determine if they are encountering exposed ABG.



Why is this material being removed?

Samples of the ABG waste material have been found to contain amounts of arsenic, barium, chromium, mercury, lead, and cadmium above **soil cleanup objectives (SCOs)** and sometimes at levels which would classify the materials a **hazardous waste**.

What are SCOs?

Soil cleanup objectives are contaminant-specific soil concentrations that are protective of public health and the environment for specified uses of a property (e.g., residential, commercial). SCOs are used to quide decisions about the need to reduce exposure to environmental contaminants. The SCOs are contained in NYSDEC's Environmental Remediation Program regulations http://www.dec.ny.gov/chemical/34189.html Analysis of surface soil and subsurface soil samples indicate results above the New York State SCOs. Arsenic, cadmium, lead, and SVOCs are the constituents of potential concern (COPC) in the Study Area. The SVOCs primarily consist of polycyclic aromatic hydrocarbons (PAHs) including 2methylnaphthalene; benz(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene.

A SCO is not a "bright line" between soil concentrations that will result in health effects and those that will not. Moreover, exceedance of an SCO at your property does not represent an immediate health hazard but indicates a need to evaluate measures to reduce the contaminant levels. The degree of public health concern when an SCO is exceeded depends on several factors, including (among others) the extent to which the SCO is exceeded, the potential for human exposure, other sources of exposure to the chemical, and the strength and quality of the available toxicological information on the chemical.









Why is this material called "hazardous waste"?

The term hazardous waste is a regulatory designation. In New York State, hazardous wastes are defined by U.S. Environmental Protection Agency and NYSDEC regulations http://www.dec.ny.gov/chemical/100401.html Simply defined, a hazardous waste is a waste with properties that make it dangerous or capable of having a harmful effect on human health or the environment. Hazardous waste is generated from many sources, ranging from industrial manufacturing process wastes to batteries and may come in many forms, including liquids, solids gases, and sludges. The treatment, storage and disposal of hazardous waste are regulated under the federal Resource Conservation and Recovery Act (RCRA) of 1976. Hazardous wastes are defined under RCRA in 40 CFR 261 where they are divided into two major categories: characteristic wastes and listed wastes. Characteristic hazardous wastes are materials that are known or tested to exhibit one or more of the following four hazardous traits: ignitibility, reactivity, corrosivity, or toxicity.

Soil and ash, brick, and/or glass in the Study Area was tested to see if it should be designated hazardous waste by using a test known as the Toxicity Characteristic Leaching Procedure (TCLP). TCLP is a soil sample extraction method employed to simulate leaching through a landfill and to assess the potential for contamination in the material being tested (soil) to get in groundwater. Designation of the soil and/or ash, brick and/or glass in the Study Area as hazardous waste is not directly related to the potential for human exposure or health risks; rather, it tells us that the materials if removed require special handling and disposal in a hazardous waste landfill. Listed hazardous wastes do not apply to soils in the Study Area.

Where would I encounter ABG?

It is possible you could encounter ABG when digging on your property.

The cleanup that was performed in the Houghton Plot consisted of excavating and removing as much as the top two feet of soil where the ABG waste and other potential contamination were found. After the ABG and other potential contamination was removed, workers put in a new layer of clean material depending on what was removed. The new material may be grass, trees, concrete sidewalks, or asphalt. In some cases, investigation of a property determined that no action was needed.

However, the cleanup was performed only in the areas where the investigation found ABG. Note that the Houghton Plot was the location of former ash dumps which preceded the residential neighborhood and waste material could still be found as more areas are sampled.

Because the remedy consists of a cover system (up to two feet of clean soil, grass, trees, concrete sidewalks, or asphalt), property owners are encouraged to plan projects that would require more extensive digging—such as installing a swimming pool or new deck—only after you have consulted with DEC and Corning Incorporated.

Contact with metals and other contaminants of concern is also possible in surface soils (within top 2 inches of ground surface), particularly in areas not covered with grass, mulch or pavement, especially in areas with visible ash, brick, and glass. Contact is also possible in sub-surface soil (beneath ground surface) if you dig into the ground. People can be exposed to metals or other contaminants of concern in soil if they get soil on their hands or vegetables and swallow or ingest the soil through hand-to-mouth or eating activities.



What precautions should I take?

No immediate health effects from exposure to arsenic, cadmium, lead, SVOCs or other contaminants in the soil through typical use of the yards is expected. However, you can reduce the chances for exposure to these contaminants by taking reasonable and practical steps to minimize direct and repeated contact with bare soils (particularly by young children).







Maintenance of a grass or mulch cover will help prevent direct contact with the soil.

Unnecessary digging in the dirt should be avoided. Children and adults should wash hands after outdoor activities.

The use of doormats and periodic damp mopping of floors can help reduce exposure to outdoor soil that might be tracked indoors.

It's important to note that all soils contain at least trace metals and microorganisms, and therefore it is always a good idea to minimize getting soil into your body whether it is contaminated or not.



What about my garden?



Eating vegetables from your garden could increase your exposure to arsenic, cadmium, lead, SVOCs or other contaminants if they are present at elevated levels in the soil of your garden. Contaminant levels in homegrown vegetables depend on many factors such as the specific kind of vegetable, characteristics of the soil, the level of contamination in the soil, and others. Additionally, soil can stick to vegetables and then be taken into the body when the vegetables are eaten. If you decide to grow and eat vegetables, the New York State Department of Health recommends best practices that can be followed to reduce the potential for exposure any time people are concerned that soil may contain man-made or naturally occurring contaminants.

To help reduce any exposures you might have from vegetable gardening:

- Grow vegetables in raised beds with clean soil (at least 10 inches deep). Use untreated wood to make the beds. Pressure-treated wood and railroad ties contain added chemicals.
- Wear gloves when working in the garden and avoid bringing soil into the house.
- Brush off your clothes and remove shoes and gloves before entering your home.
- Wash with soap and water after gardening or any time before you eat.

Additional information about healthy gardening may be found at:

http://www.http://www.health.ny.gov/publications/13 01/





What are my responsibilities as a property owner?

Site Management will require work on some residential property. You have rights as a homeowner but also obligations to help the DEC and the DOH perform this work. Here is a summary of your rights and responsibilities:

1. You will not have to pay anything for this cleanup on your property; however, you will need to grant access to Corning Incorporated to perform the work. Note that you will be notified before anyone comes onto your property to do any work related to the remedy.

2. To the best of your ability, you should also protect the work in progress. For instance, if excavation has taken place in your front yard, you might want to keep pets from digging in the excavation area.

3. If you, even accidentally, do something that impacts the new cover put in place, you will need to contact Corning Incorporated and the DEC to let them know.

4. If you sell your house, you need to notify the DEC and Corning Incorporated so they can contact the new residents about the cleanup work. The seller should also provide the No Further Action Letter and the Construction Completion Report (if they have one) to the new owner. If you have misplaced these documents, you can contact Corning Incorporated or DEC and they can help you.

5. After the new cover material is put into place, you will be responsible for the normal upkeep of your property—such as mowing and trimming—just as you would have before. Corning Incorporated provided instructions on how to maintain your new sod.



Important Timelines for Property Owners

If any of the situations described below apply to you, please notify Corning Incorporated and the DEC as quickly as possible. These timelines were established to help maintain the health and safety of people and the environment.

The DEC can help you determine the likelihood of encountering ABG and assist with dealing with it if you do.

Corning Incorporated will notify you, the property owner 15 days prior to doing any field activity associated with site management including inspections and monitoring or excavation. You will also receive status reports within 45 days of Corning Incorporated having to respond to an event on your property that describes any actions taken to maintain the cover system.



I discovered damage to the cover system installed by Corning Incorporated.

• Notify Corning Incorporated and the DEC within 24 hours.



I think I found ash, brick, or glass.

• Notify Corning Incorporated and the DEC within 24 hours.



I have a building permit that includes digging or excavating.

 Notify Corning Incorporated and the DEC within 7 days of receipt. Corning Incorporated will arrange activities.



am planning activities on my property that require excavation.

• Notify Corning Incorporated and the DEC 60 days before starting your project.

Each section of the SMP is summarized below.

Executive Summary

This introductory portion of the plan uses the terms "OU1," "OU2," or "OU5." These are operable units and are the different areas of the cleanup that will take place in residential areas. Having operable units was necessary for breaking down this large project into manageable components, which involved different cover systems and/or schedules for implementation.

The SMP has been developed for the properties within the Residential Area (OU1), the Residential Area at the Eastern End of Corning Boulevard (OU2) and the Residential Expansion Area (OU5).



2.0 Institutional and Engineering Control Plan

Section 2 provides detailed information about the institutional controls (such as the plans for and procedures that will be followed during inspections and the notification requirements for homeowners, Corning Incorporated, and the DEC) and the engineering controls (that is, the cover that was installed after excavation). Institutional controls are referred to as "ICs" throughout the SMP. Subsection 2.3 describes the engineering controls—that is, the new soil and materials that will be placed after the excavation. The soil cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals, in perpetuity, in accordance with this Site Management Plan.

More information about the backfilling, reseeding, lawn replacement, and replacing landscaping features can be found in this section.

Each section of the SMP is summarized below.

3.0 Monitoring Plan

This section of the SMP describes how the new cover system will be evaluated and monitored.

4.0 Periodic Assessments/Evaluation

This section describes how Corning Incorporated will determine the vulnerability of the site related to severe weather events. Increased erosion, damage to infrastructure from wind, and flooding are all considered. This section also describes the DEC's policy related to green remediation (i.e., work be performed using ecologically sound techniques that save energy, reduce waste and emissions, conserve water, and protection of the natural environment and private property).

5.0 Reporting Requirements

This section describes the periodic reporting requirements and include (1) site inspection reports and (2) periodic review reports (PRRs).

A comprehensive inspection of properties will be performed annually by Corning Incorporated and documented in inspection forms submitted to DEC as part of the annual Periodic Review Reports (PRRs). Any deficiencies or issues that require action will be documented via email and provided to NYSDEC within 7 calendar days of the inspection. Corning Incorporated will compile the information provided by the property owners to be included in the PRR. Such information will include, but is not limited to, an annual summary of work completed on the property which involved excavation and any observation of damage or defect that compromises the effectiveness of the cover system.

6.0 References

This section lists the reports, journal articles, research, etc. referenced in the site management plan. Many of these are available to the public either online or in a public library.

Figures

This section of the site management plan includes maps of the site, photos of waste material, and illustrations of the cover system.

Tables

The first table (Table 1-1) in this section lists the different properties in each operable unit (OU). Note that no personal identification is listed on this table.

Each section of the SMP is summarized below.

Appendix A: Waste Summary, Industrial Wastes in Corning, New York. This appendix provides a descriptions and pictures of the different waste material you may encounter on your property.

Appendix B: Site contacts are provided.

Appendix C: Supplemental Requirements for Building Permits in the City of Corning Study Area. This section is important for property owners because it describes what you should do if you are issued a building permit for work on your property.

Appendix D: Excavation Work Plan – Residential Properties (EWP-RP). This appendix details how the excavation and the replacement of the cover system will be performed and how property owners should plan for their own excavation projects in their yards.

The excavation workplan describes how excavation and replacement of the cover system will be performed. It explains how the material will be loaded onto containers for disposal, how it will be transported and disposed of, how the equipment used for the work will be decontaminated, the management of water, and how the cover system will be repaired, installed, or restored as required. Note that this work will be at no expense to the property owner.

If you are planning to dig post holes deeper than 2 feet below ground surface or plant trees or shrubs in an area that is known to contain ABG, Corning Incorporated will hire a qualified driller to drill those holes. If you are planning to install a fence, flagpole, or mailbox, for example, you and the driller will mark out the locations for the holes and the driller (hired by Corning Incorporated) will manage the subsurface material so you will not come into contact with any waste material. You or your contractor may then complete the project.

For excavations deeper than 2 feet required for installing footers or for building additions or inground swimming pools, for example, Corning Incorporated will work with you and your schedule and hire a subcontractor to complete the excavation. During that excavation, the subcontractor will install a demarcation layer (e.g., fabric) at the bottom of the excavation to provide a visual barrier against any remaining ABG and other potential contamination. During this work, Corning Incorporated may collect samples of the material being excavated to assist with disposal. When the subcontractor is finished, they will install a temporary safety fence. If the excavation is against a foundation, Corning Incorporated will inspect the area inside and outside, and before and after the excavation to make sure there was no damage to your foundation. You or your contractor may then complete the project.

Note that an access agreement will be necessary for DEC and/or Corning Incorporated to perform work on your property.

Each section of the SMP is summarized below.

Appendix E: Soil Analytical Results and Remaining Contamination. This appendix contains drawings illustrating sampling locations with symbols used to indicate the sample type (such as a soil boring, test pit, surface soil, etc.) and the results of analytical testing at each point. Tables summarizing the results of the laboratory data analysis for each sample make up the rest of this appendix.

Appendix F. Known Subject Material Within City of Corning Rights-of-way. Appendix F contains figures that illustrate City of Corning rights-of-way and the locations and analytical results of any samples taken in these areas.

Appendix G. Known Subject Material Within City of Corning Rights-of-way (Prepared by Parsons). This appendix consists of one figure developed by Parsons Corporation. (Parsons is providing third-party oversight for the cleanup work on behalf of DEC). This map illustrates the likelihood of ABG and other potential contamination being encountered the City of Corning right-of-way.

Appendix H. Excavation Work Plan – City of Corning Rights-of-way Areas (EWP-ROW). This appendix consists of a work plan describing the cleanup work that will occur in the City's rightsof-way. This work plan is similar to the one provided in Appendix D but it describes the notification requirements for the City of Corning and utility providers rather than property owners.

Appendix I. Short-Term Response Action Work Plan. This work plan describes the immediate actions that will be taken to address or mitigate any environmental impacts posed by the ABG and other potential contamination. It provides the short-term measures that will be taken if someone finds ABG such as isolating the area with temporary fencing, installing any erosion controls if necessary, and inspecting the area daily. These are short-term measures to address immediate exposure risks that are taken before the more comprehensive excavation takes place.





Each section of the SMP is summarized below.

Appendix J. Responsibilities of Property Owner and Remedial Party. The information in this appendix is of particular importance to property owners. It describes in detail the different responsibilities for the property owner, Corning Incorporated, and utility contractors. Corning Incorporated and the DEC also have responsibilities to protect you, your property, and the environment at large throughout this project. That information is also included in Appendix J.

Appendix K. Health and Safety Plan (HASP). The HASP provides detailed information for people working on the project. It describes the potential hazards of working on the site and includes the safety measures and procedures that are put in place to keep workers safe.

Appendix L. Community Air Monitoring Plan (CAMP). The CAMP provides information related to the control of dust and the air monitoring that will take place during the clean up work.

Appendix M. Site Management Forms. This appendix consists of a blank inspection log forms to be used by workers in the field.

Appendix N. Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP). This appendix details the sampling protocols and quality assurance/quality control (QA/QC) procedures for conducting field sampling activities.

Appendix O. Groundwater Monitoring Plan. This appendix describes how groundwater monitoring wells will be installed. Monitoring groundwater is one way of assessing if the remedy is working.

Appendix P. Agreement for Work in the Houghton Plot Study Area – Project ID 851046 between Corning Incorporated and the City of Corning. This appendix details the agreement between Corning Incorporated and the City of Corning for performing excavation work within the City of Corning rights-of way.

Visit the DEC's Website for More Information

https://www.dec.ny.gov/chemical/97180.html

A digital version of this guide can be found at <u>https://arcg.is/1eH18q.</u>

This digital site will be updated as needed.