

ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com

Honeywell

Buffalo Research Laboratory (BRL) 20 Peabody Street Buffalo, NY 14210

Site Management Plan

Periodic Review Report

NYSDEC Site Number: 915002

EPA ID: NYD0006323215

January 24, 2022

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Certification of Engineering Controls and Institutional Controls

The BRL Site's Engineering Controls (ECs) consist of:

- Cover system (existing buildings and pavement) is maintained in good order
- Grass / gravel cover is maintained in good order
- Groundwater monitoring is performed annually
- Excavation work plan is followed for any applicable excavation

BRL's Institutional Controls (ICs) serve to implement maintain and monitor the ECs, prevent future exposure to remaining contamination and limit the use and development of the Site to industrial use only.

Certification Statement

"For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional controls required by the remedial program was performed under my direction
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department
- Nothing has occurred that would impair the ability of the control to protect the public health and environment
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control
- Access to the Site will continue to be provided to the Department to evaluate the remedy including access to evaluate the continued maintenance of this control
- Use of the Site is compliant with the environmental easement
- The engineering control systems are performing as designed and are effective
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program
- The information presented in this report is accurate and complete

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Michelle Mattice, of 20 Peabody Street, Buffalo, NY 14210, am certifying as Owner's Designated Site Representative for the Site."

Michelle Mattice Signature

Date: 1/24/2022

Michelle Mattice, Site Leader

Results of the Annual Site Groundcover Inspection

The annual site groundcover inspection was conducted on May 27, 2021 and is attached in Appendix A. Several areas of concern were identified during the groundcover inspection. In general, the groundcover condition was good. There were several areas containing wheel ruts and grass damage due to winter weather, see attached inspection, location map, and photos in Appendix A. Areas were repaired and seeded within 10 days of request.

Results of Annual Groundwater Monitoring

The annual groundwater monitoring was conducted by Parsons on May 27, 2021 and is attached in Appendix B. The report is dated July 16th, 2021. The conclusions recommend that the annual groundwater monitoring should continue to be conducted, per the site management plan. The recommended well repairs were completed in October 2021. Additional detail is available in the report.

Annual Site Evaluation

The annual site-wide inspection was conducted on May 27, 2021 and is attached in Appendix C. The institutional and Engineering Controls described in the Site Management Plan are in place with no significant exceptions at the Site. The required reporting has been conducted per the Site Management Plan in 2021 and site records are up to date.

Site Management Report – Excavation Work Documentation

In calendar year 2021, one emergency excavation notification and one notification of excavation work was submitted to NYSDEC.

- On February 10, 2022 Honeywell requested to excavate an undetermined amount of soil to respond to a water main break at the site. The excavated soil and stone were stored on plastic sheeting and protected from the elements until sampling and disposal can be arranged. Approximately 59 tons of stone and soil were removed from the excavation. The water main break was repaired, stone added to the excavation, and an asphalt patch was placed over the excavation area. Honeywell conducted soil sampling on March 19, 2021, prior to disposal in May 2021. Correspondence, photos, disposal manifests, and analytical documents are included in Appendix D.
- 2. On October 25, 2021 Honeywell requested to excavate an undetermined amount of soil to conduct storm sewer improvements and asphalt/concrete improvements at the site. The excavated soil and stone were stored on plastic sheeting and protected from the elements until sampling and disposal were arranged. Approximately 400 tons of stone and soil were removed from the storm sewer excavations. The storm sewer excavation was backfilled with stone. Soil and grass seed will be placed in Spring 2022. Correspondence, photos, manifests, and analytical documents are included in Appendix E.

Approximately 40 ton of soil were removed from the asphalt/concrete improvement project. Asphalt and concrete were installed as ground cover in these areas. Honeywell conducted soil sampling on December 2, 2021, prior to disposal in January 2022. Correspondence, photos, manifests, and analytical documents are included in Appendix F. Appendix A – Annual Groundcover Site Inspection Documentation

Cover Inspection Form (Quarterly/Annual)

Honeywell, Inc. Buffalo Research Laboratory Buffalo, New York

SECTION I. GENERAL INFORMATION

Inspector Name and Title:Kant Kand for Names of Others Present During Inspection:	NIA Monager	
Date of Inspection: 5/37/31 Date of Last Inspection: 1/35/31	Time of Inspection:	40h
Weather:65°F .S.may		

SECTION II. INSPECTION RESULTS

Walk through the entire Site and answer the following questions.

1. Are there any locations where work is being performed in accordance with the Site's Excavation Work Plan?



If you answered "Yes," attach to this inspection form a brief description of the location, type of work, start date, and expected completion date for the work.

2. For grass-covered areas, did you observe any locations with damaged or missing grass cover, not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan, which cause direct exposure of surface soil?



3. Did you observe any locations of exposed soil (such as due to vehicle traffic, erosion, or runoff) not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan?

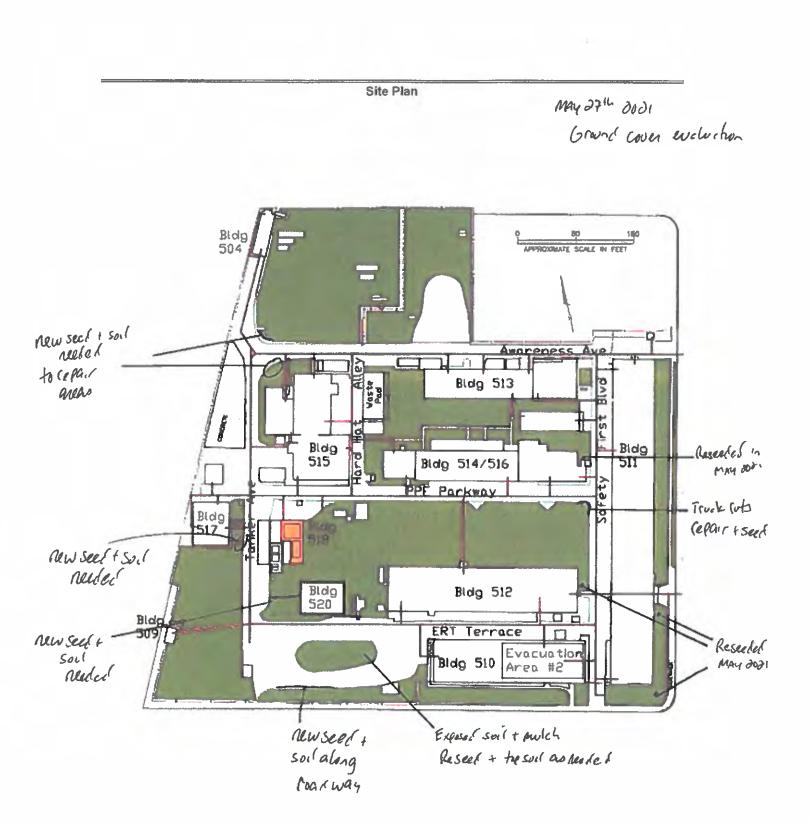


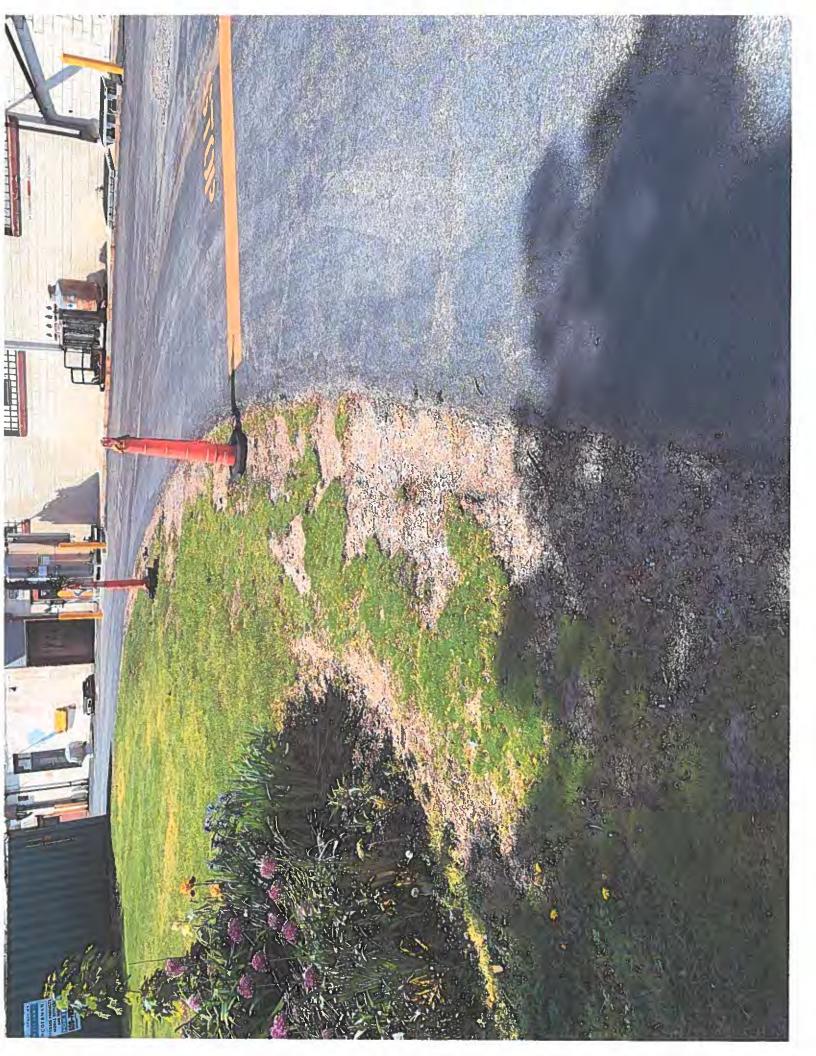
4. Did you observe any areas of cracked, broken, or otherwise damaged or missing asphalt or concrete not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan, which cause direct exposure of surface soil?

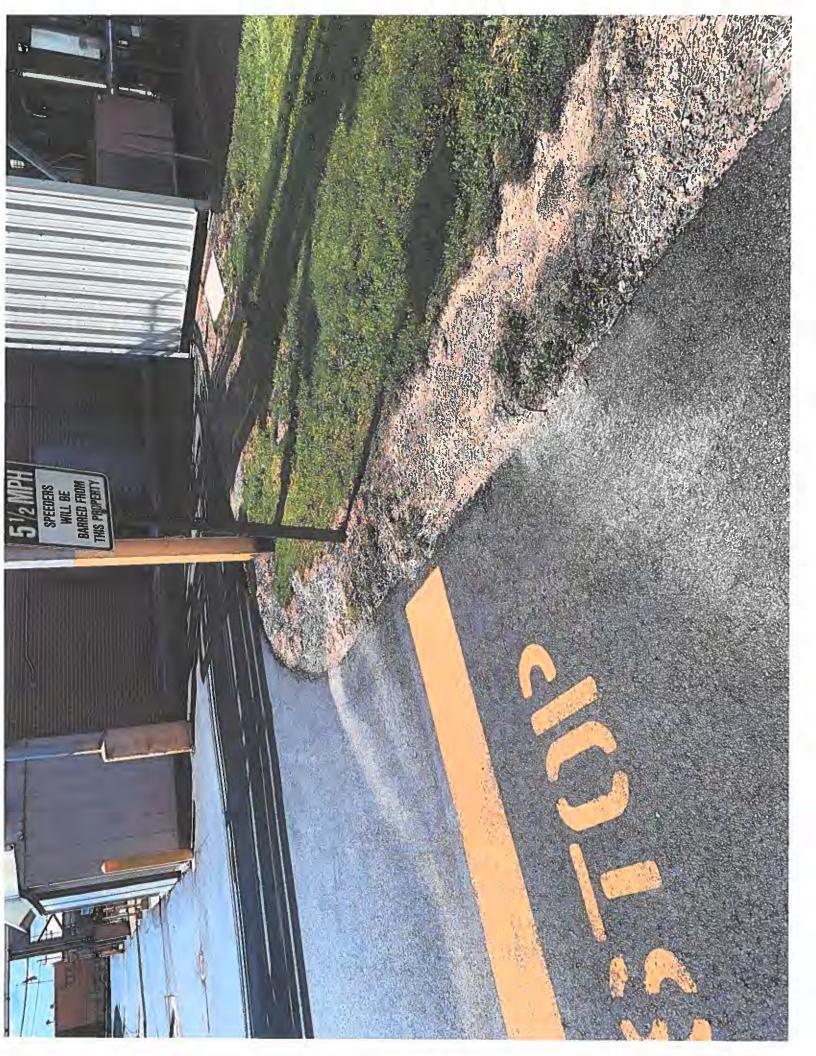


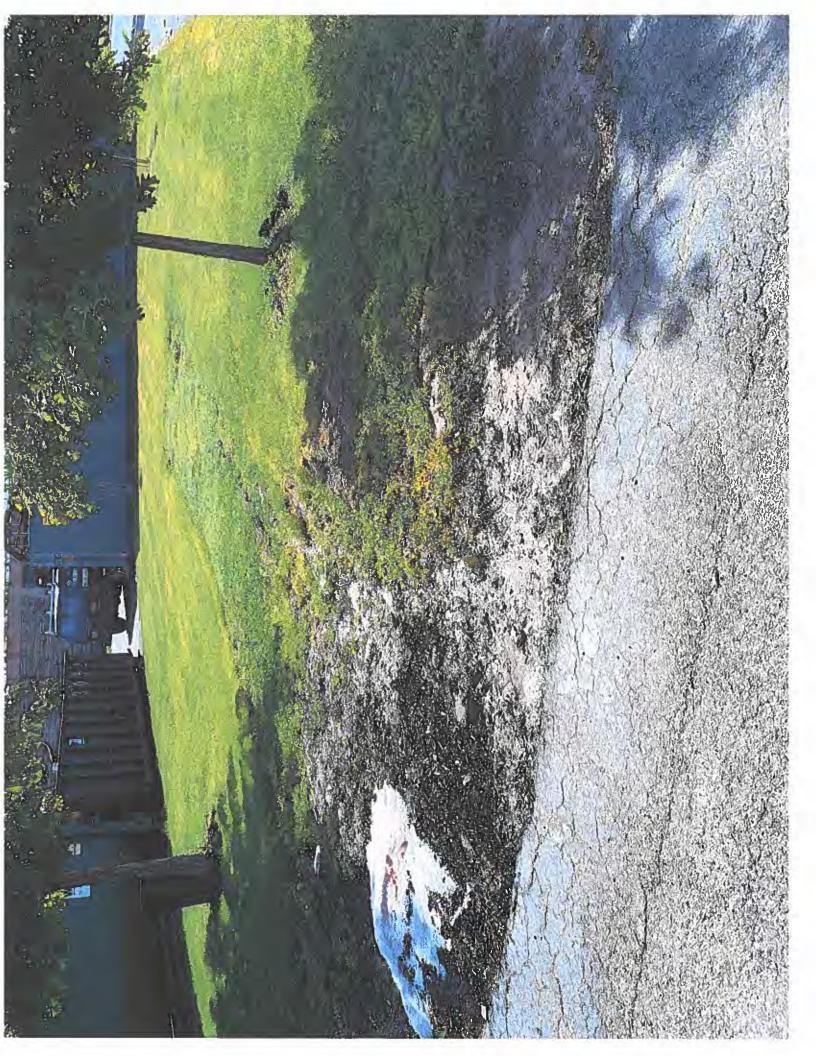
5. Did you observe any gravel-covered areas where the gravel cover has been damaged or removed not within a work zone where work is currently being performed in accordance with the Site's Excavation Work, which cause direct exposure of surface soil?

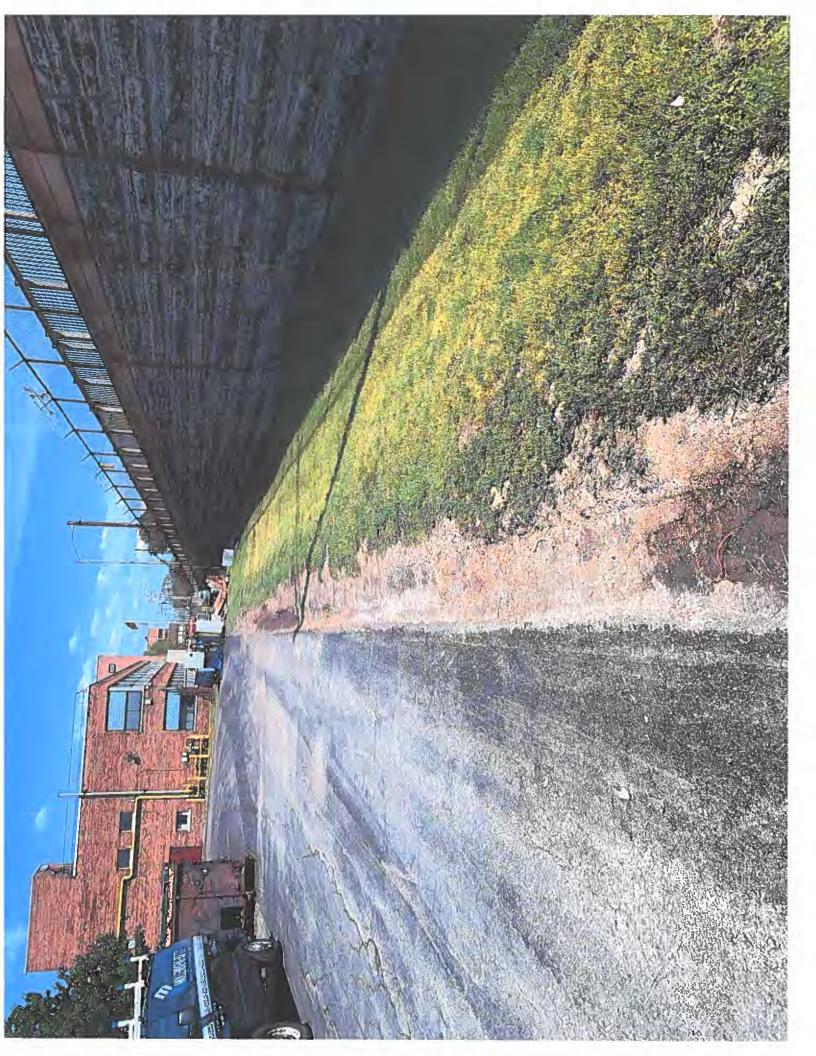


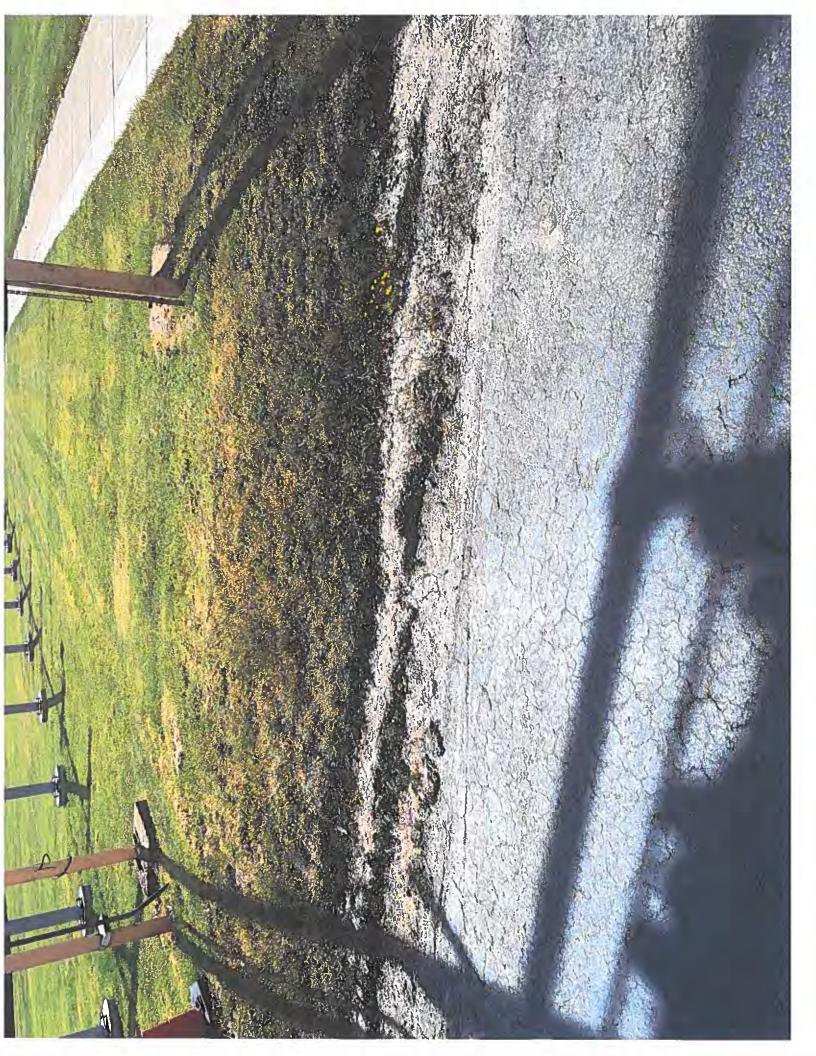


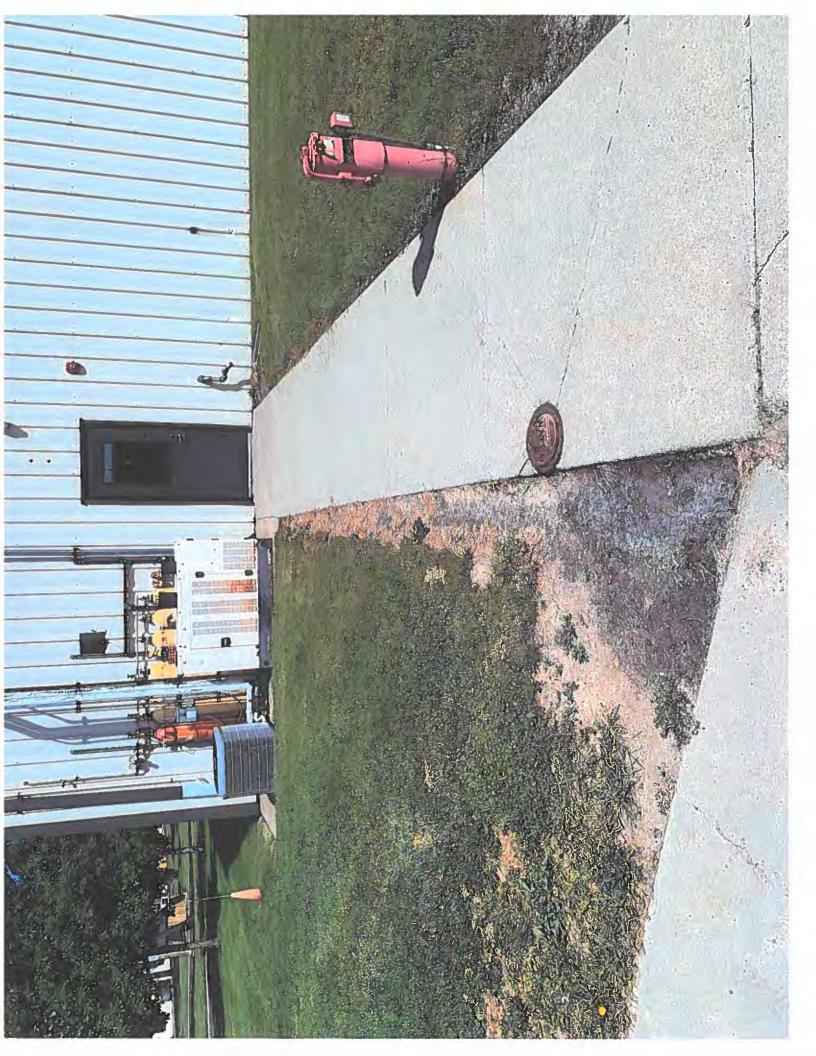


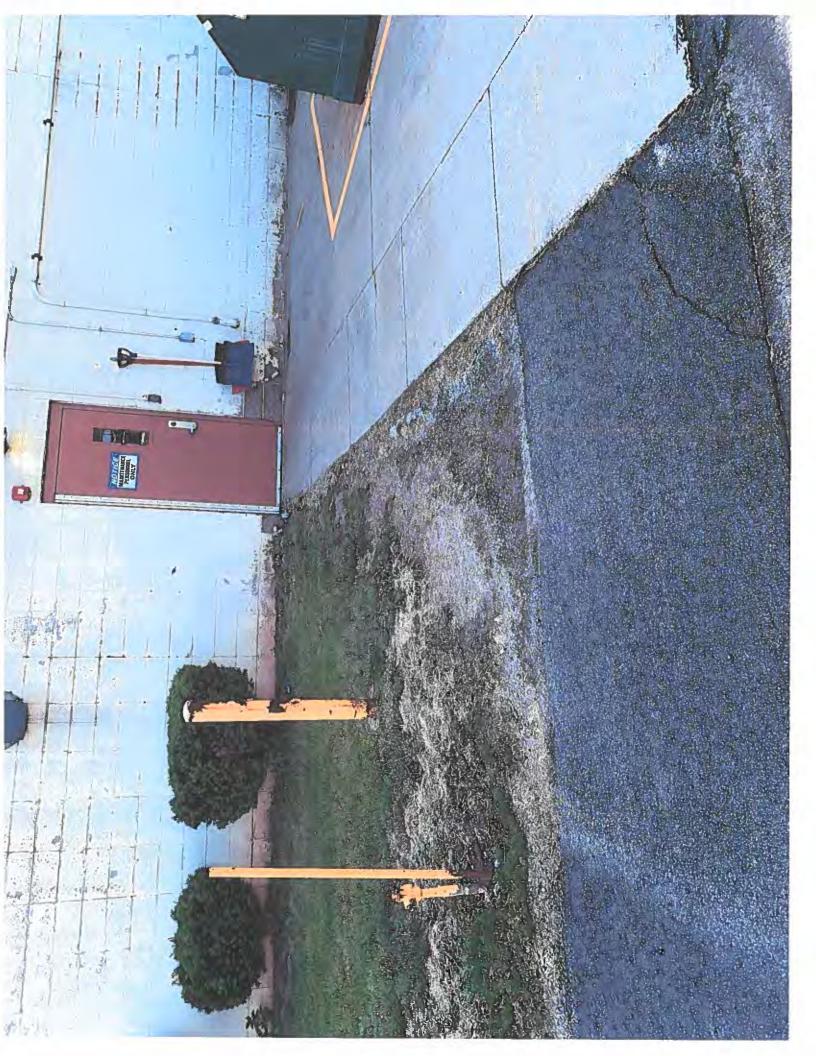


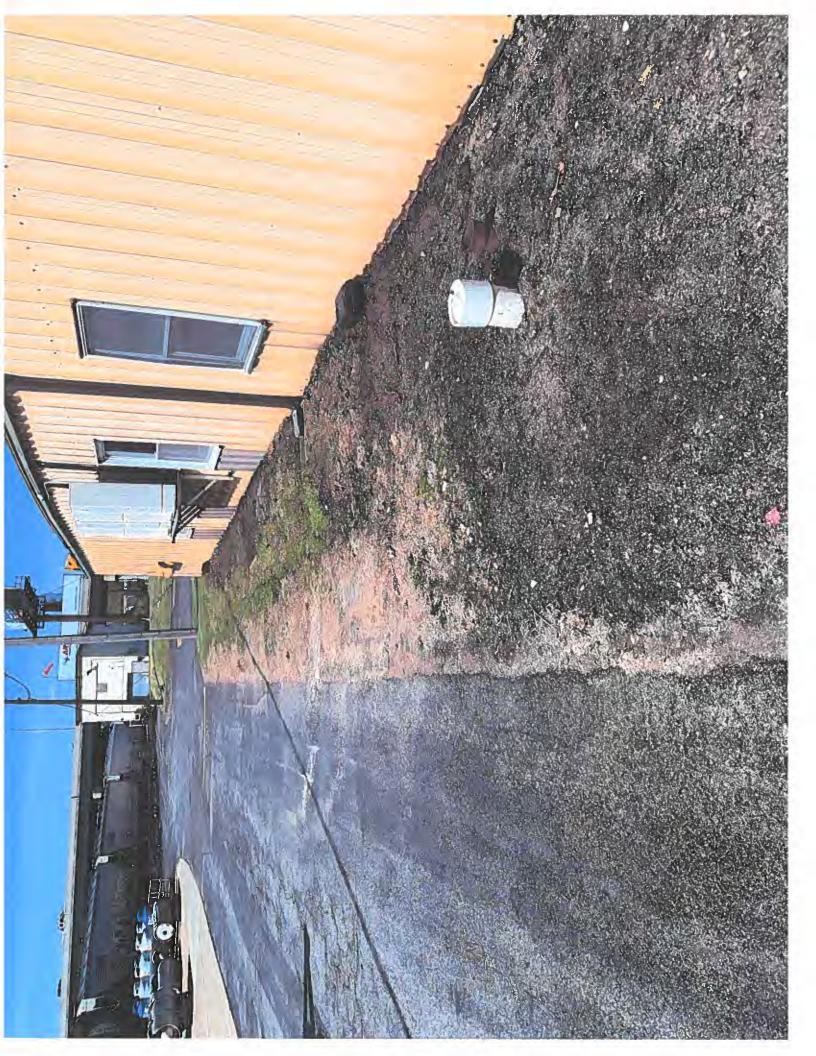


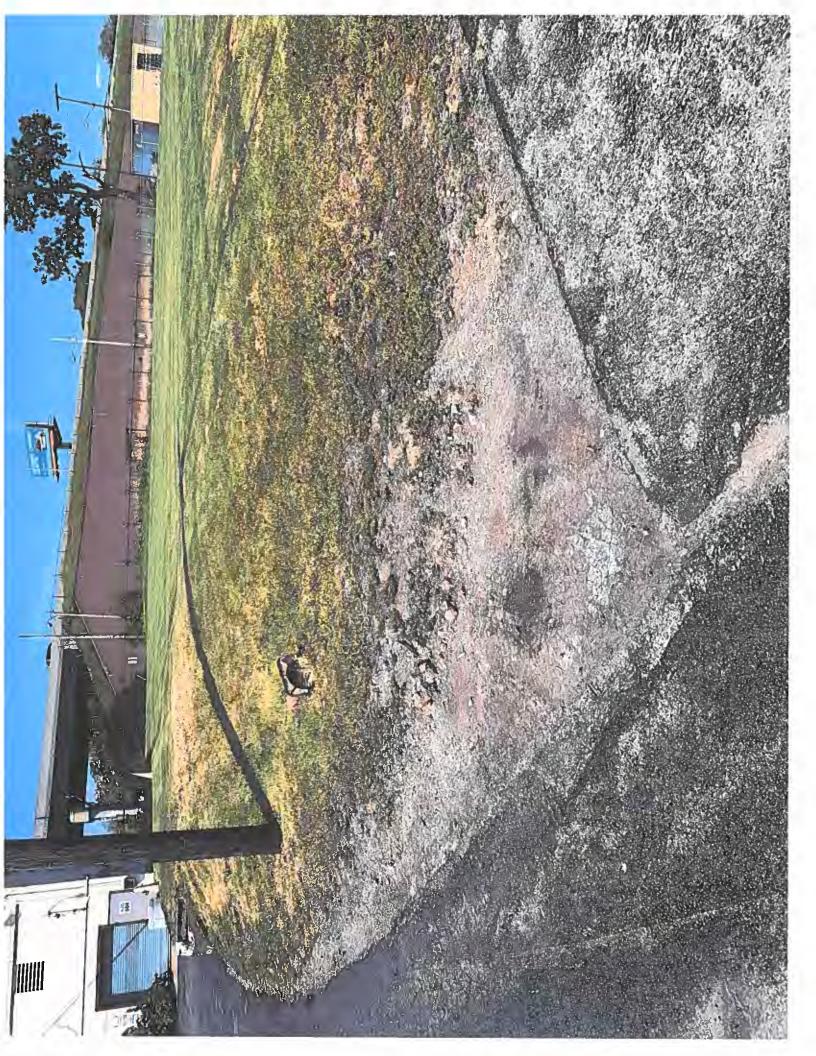














ATTACHMENT B

Groundwater Analytical Results

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TABLE 1

Summary of Groundwater Analytical Results (5/27/2021)

Analytical Parameters	NYSDEC AWQS µg/L	MW-3 μg /L	МW-5 µg /L	Trip Blank µg /L
Total Arsenic	25	5	ND	NA
Total Barium	1,000	360	180	NA
1,1-Dichloroethene	5	2.0	ND	ND
1,1-Dichloroethane	5	18	ND	ND
1,1,1-Trichloroethane	5	4.1	ND	ND

Note: Only detected analytes are shown.

Boxed and bold analytical results exceed NYSDEC Ambient Water Quality Standards (AWQS).

ND = Not detected.

NA = Not analyzed.

Sample ID: Trip Blank Sample Date: 05/27/21

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Chloromethane	ND	μg/L	10	SW 846 8260
Vinyl chloride	ND	μg/L	10	SW 846 8260
Bromomethane	ND	μg/L	10	SW 846 8260
Chloroethane	ND	μg/L	10	SW 846 8260
Trichlorofluoromethane	ND	μg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	μg/L	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	μg/L	10	SW 846 8260
1,1-Dichloroethane	ND	μg/L	10	SW 846 8260
Bromochloromethane	ND	μg/L	10	SW 846 8260
Chloroform	ND	μg/L	10	SW 846 8260
1,2-Dichloroethane	ND	μg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Benzene	ND	μg/L	10	SW 846 8260
1,2-Dichloropropane	ND	μg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	μg/L	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	μg/L	10	SW 846 8260
Toluene	ND	μg/L	10	SW 846 8260
Dibromochloromethane	ND	μg/L	10	SW 846 8260
Tetrachloroethene	ND	μg/L	10	SW 846 8260
Chlorobenzene	ND	μg/L	10	SW 846 8260
Ethylbenzene	ND	μg/L	10	SW 846 8260
Bromoform	ND	μg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	μg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	μg/L	10	SW 846 8260
Acetone	ND	μg/L	10	SW 846 8260
2-Butanone	ND	μg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	μg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	μg/L	10	SW 846 8260

Sample ID: Monitoring Well 5 Sample Date: 05/27/21

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	ND	mg/L	0.025	EPA 6010
Soluble Arsenic	NA	mg/L	0.025	EPA 6010
Total Barium	0.180	mg/L	0.010	EPA 6010
Soluble Barium	NA	mg/L	0.010	EPA 6010
Chloromethane	ND	μg/L	10	SW 846 8260
Vinyl chloride	ND	μg/L	10	SW 846 8260
Bromomethane	ND	μg/L	10	SW 846 8260
Chloroethane	ND	μg/L	10	SW 846 8260
Trichlorofluoromethane	ND	μg/L	10	SW 846 8260
1,1-Dichloroethene	ND	μg/L	10	SW 846 8260
Methylene chloride	ND	µgЛ.	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	μg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	μg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	μg/L	10	SW 846 8260
Carbon tetrachloride	ND	μg/L	10	SW 846 8260
Benzene	ND	μg/L	10	SW 846 8260
1,2-Dichloropropane	ND	μg/L	10	SW 846 8260
Trichloroethene	ND	μg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	µgЛ	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	μg/L	10	SW 846 8260
Toluene	ND	μg/L	10	SW 846 8260
Dibromochloromethane	ND	μg/L	10	SW 846 8260
Tetrachloroethene	ND	μg/L	10	SW 846 8260
Chlorobenzene	ND	μg/L	10	SW 846 8260
Ethylbenzene	ND	μg/L	10	SW 846 8260
Bromoform	ND	μg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	μg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	μg/L	10	SW 846 8260
Acetone	ND	μg/L	10	SW 846 8260
2-Butanone	ND	μg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	μg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	μg/L	10	SW 846 8260

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Sample ID: Monitoring Well 3 Sample Date: 05/27/21

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	0.005	mg/L	0.025	EPA 6010
Soluble Arsenic	NA	mg/L	0.025	EPA 6010
Total Barium	0.360	mg/L	0.010	EPA 6010
Soluble Barium	NA	mg/L	0.010	EPA 6010
Chloromethane	ND	μg/L	10	SW 846 8260
Vinyl chloride	ND	μg/L	10	SW 846 8260
Bromomethane	ND	μg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	μg/L	10	SW 846 8260
1,1-Dichloroethene	2.0	μg/L	10	SW 846 8260
Methylene chloride	ND	μg/L	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	18	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	μg/L	10	SW 846 8260
1,2-Dichloroethane	ND	μg/L	10	SW 846 8260
1,1,1-Trichloroethane	4.1	με/L	10	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	во на просторителни со прости со соста соста со сост	SW 846 8260
1,2-Dichloropropane	ND	μg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	μg/L	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	μg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	μg/L	10	SW 846 8260
Toluene	ND	μg/L	10	SW 846 8260
Dibromochloromethane	ND	μg/L	10	SW 846 8260
Tetrachloroethene	ND	μg/L	10	SW 846 8260
Chlorobenzene	ND	μg/L	10	SW 846 8260
Ethylbenzene	ND	μg/L	10	SW 846 8260
Bromoform	ND	μg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	μg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	μg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	μg/L	во на колосситения на на колосситения на колоссите	SW 846 8260
1,2-Dichlorobenzene	ND	μg/L	никально-кончалории налости и соверство и соверство и соверство и соверство и соверство и соверство и соверство 10	SW 846 8260

Table 2

Honeywell Specialty Chemicals Historical Analytical Results

Compound	NYSDEC	MW-1	MW-1	MW-2	AW-2	MW-2	6-WM	8-WM	MW-3	8-WM	MW-3	MW-3	WW-3	MW-3	8-WW	MW-3	6-WW	MW-3
	(ng/L)	10/17/94	1/18/95	10/17/94	1/18/95	5/27/03	10/17/94	1/18/95	8/23/99	10/19/00 12/10/01		11/19/02	5/27/03	11/13/03	5/25/04	4/28/05	4/25/06	5/1/07
Total Arsenic	25	3 B	•	-	2.9 B	8.80 J	1	3 B	18	ষ্ঠ	23 J	63.3	13.2 J	13.4 J	838 J	33.0	39.0	39.0
Soluble Arsenic	25	NA	AN	NA	NA	6.41 J	NA	AA	NA	NA	13 J	16 J	9.2 J	13.1 J	AN	NA	24	
Total Barium	1,000	102 B	67.6	197 B	157 B	130	111 B	129 3	166	135	14C	194	197	262	279	357	302	394
Soluble Barium	1,000	NA	NA	NA	NA	129	NA	AA	NA	NA	140	177	191	245	AN	AN	361	324
Acetone	50	12	•	11	6 J	NA	7	59	AA	AA	AN	AA	AA	AN	AN	AN	AN	AN
2-Butanone	50	•	•	-	•	NA	•	6 J	NA	NA	NA	NA	NA	NA	AN	NA	AN	AN
Chloroform	2	•	•	•			•		•	•				,				
Dibromochloromethane	5	•	•	•	•		•	•		•	,	•			,	,		,
1,1,1-Trichloroethane	5		•	•	,	•	36	10	8	17.1	7.62	16.2	12.3				10	12.3
Tetrachloroethene (PCE)	5		•	,	-	-	-			<10						211 J		
Trichloroethene (TCE)	5	.	1	-	-	-	-	•			,	,			1	5.20 J		,
1.1-Dichloroethene	5	,	-	,		•	4			C.>			1	1	,	'	-	
Methylene Chloride	5	11	•	8	•	-	8	•	•	<10 <			,	1				,
1,1-Dichloroethane	5		,	_	-	-	42	11	30	20.7	7.73	26.0	17.3			6.42 J	14	17.1
1,2-Dichloroethane	0.6	11	•	•	,					,		,		 	,	 		, ,
1,2-Dichlorobenzene	3	•		-	•			,	,	1	2.86	 	1		•	1	 	
1,2-Dichloropropane	1	•	•	-	•	- -				 ,	,			1	,			
Toluene	5		,	-	3 J		 	 	;	,			ı	-	,	•	,	
Chloroethane	5		•	1		•	•	•								1		
Vinyl chloride	2	,	•	-	1	,	•	•		•	,	•		,	,	•		,

Bold data exceed NYSDEC Ambient Water Ouality Standards (AWOS).
= Compound not detected above analytical detection timits.
J = Analytical result is an estimate.
NA = Not analyzed.
B = Compond also identified in blank.

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Table 2

Honeywell Specialty Chemicals Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-3 5/6/08	MW- 3 4/21/09	MW-3 4/29/10	MW-3 4/19/11	MW-3 4/17/12	MW-3 7/9/13	MW-3 719114	MWV-3 9/5/15	MW-3 8/16/16	MW-3 8/1/17	MW-3 6/26/18	MW-3 7/29/19	MW-3 9/15/20	MW-3 5/27/21	MW-4 10/17/94	MW-4 1/18/95	MW-5 10/17/94	MW-5 1/18/95	MW-5 8/23/99
Total Arsenic	25	34.0	13	58	20	36	145	44	06	176	54	150	466	83	5		5.6 8	•		113
Sotuble Arsenic	25	13	NA		-	18	69	•		43.7	15	-	AA	NA	NA	AA	NA	NA	AA	AN
Total Barium	1,000	361	206	147	313	204	289	203	455	446	215	246	425	374	360	183 B	243	71 B	74 B	170
Soluble Barium	1,000	360	AN	136	331	128	226	200	NA	508	244	180	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	20	AA	AA	AN	AN	AN	AA	٨A	NA	NA	•	AN	NA	-	•	6	-	5	•	NA
2-Butanone	50	AA	AA	AN	AN	NA	AA	NA	NA	NA	•	AN	NA	-	•	•	••••	•	•	AN
Chiorofarm	7	-	-	•	•	•	-	•	•		-	•			1	,		•	ı	•
Dibromochloromethane	£		•	•	•	•	•	•	•	•	•	,	,	•		,	,	•	1	ı
1,1,1-Trichloroethane	5	11.2	17.7	8.22	7.3	11.4	5.9	•	9.2	4.7	9.0	9.8	4.2	4.1	4.1	-	-	-	•	,
Tetrachloroethene (PCE)	5			•	•	•		•	•	•	•	•	•	•	•		•	•	•	,
Trichloroethene (TCE)	£	,	,	•	-	•		•	•	•	-	•	0.90	0.51	,	-	•	3	,	,
1,1-Dichloroethene	5	•	23.3	-	•	2 54	2.1	2.3	3.3	1.6	4,4	4,1	2.4	1.8	2.0	•	•	ı	•	'
Methylene Chloride	5	•	•	,	•	•	-	•	•	•	-	•	,	•	•	8	•	12	•	,
1,1-Dichloroethane	5	17.1	-	12.1	10.6	21.1	8.5	19.2	8	28	88	ą	22	19	18	,	,	•		
1,2-Dichloroethane	0.6	•	•	•		•	•			•	•		•	•	•	1	•	•	•	
1,2-Dichlorobenzene	e	•	-	•	,	,	4.2	,	,	•	•	•	,	,	,	•	•	•	•	'
1,2-Dichloropropane	4	•	-	•	•	•	,	,		,	,	•	,	•	,	• ,			,	,
Toluene	5	1	1		,	,	•	•	1	1	•	•	•		•	•	•	-	•	•
Chloroethane	5	•	•	•		•	•	•	•	•	••••		3.9	•	•	•	•	•	•	
Vinyl chloride	2	•	•	•	•	13.7	1	4.4	•		2.6	•	•	•	•	•	•	•	•	,

Bold data exceed NYSDEC Ambient Water Ouafity Standards (AWOS) - = Compound not detected above analytical detection limits. J = Analytical result is an estimate. NA = Not analyzed. B • Compond also identified in blank.

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Honeywell Specialty Chemicals Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-5 10/19/00	MW-5 MW-5 MW-5 10/19/00 12/10/01 11/19/02	MW-5 11/19/02	MW-5 5/27/03	MW-5 11/13/03	MW-5 5/25/04	MW-5 4/28/05	MW-5 4/25/06	MW-5 5/1/07	MW-5 5/6/08	MW-5 4/21/09	MW-5 4/29/10	MW-5 4/19/11	MW-5 4/17/12	MW-5 7/9/13	MW-5 7/9/14	MW-5 9/8/15	MW-5 8/16/16
Total Arsen c	25	37	20 J	241 J	151 J	106	8 17 J	13.3 J	•		28.0	20	31	-1	34	12	15		e
Soluble Arsenic	25	AN	6 J	140 J	8 18 J	91 J	AN	8.85	10	•	14	NA	19	-	⊷. *	4	•	ΨN	•
Total Barum	1.000	10 10	80	95.1	838	214	63.9	94.9	62	58	56	50	61	56	- 95	70	6 1	28 28	169
Soluble Barium	1.000	NA	80	76	70.2	63.8	AA	86.4	ţ.	21	63	NA	57	71	67	57	5	AA	108
Acetone	50	NA	NA	NA	AN	AN	AN	AN	AN	AN	NA	NA	AA	NA	NA	AN	AA	AN	AA
2-Butanone	20	AN	AN	NA	AN	AN	AA	AN	AN	NA	AN	AA	AN	AA	NA	NA	AA	AN	AN
Ch oroform	7	'			•		•	,	•	,	,	,	'	,		-		•	61
Dibromoch oromethane	S	•			•	•	2	•	•	•								·	-
1,1,1-Trichloroethane	5	,	-	-	•	•	•	•	•		,	,		-	,	+	•		
Tetrachtoroethene (PCE)	S	•	•		•	•		•	,		,							·	
Inchloroethene (TCE)	S			•	•		•	,	•	,	,	,	,	,		,		·	•
1 1-Dichloroethene	5	,	•	•	•	•					-			•	,	,	,		-
Methylene Chloride	5	31.1	-	•	•	•			•					'	·		,		,
1 1-Dichloroethane	5	-	-	-		,	•	•	•	•				Ī	·	•			
1 2-Dichloroethane	0.6	•				•					,	,	,	'	•	,	,	•	•
1,2-Dichlorobenzene	e		-	•	,	,		•	 , ,			,		·	·		,		
1,2-Dichloropropane	٢	٠	-	•		,				,		•		•	·	,	,	,	,
Toluene	ម	-	•	•							'	-		,		,		,	·
Chloroethane	5	•	-	,	•		,		-		-		-		•	-	,	·	·
Vinyl chloride	2	•	•	,	•				,	,	,					,		-	•
					Í														

Bold data exceed NYSDEC Ambient Water Quality Standards (AVWOS).
 = Compound not detected above analytical detection imits
 J = Analytical result is an estimate.
 NA = Not analyzed.
 B = Curnand alsu dentified in blank.

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Table 2

Honeywell Specialty Chemicals Historical Analytical Results

	Compound	NY SDEC AWQS	S-WW	3-WM	MW-5	MW-5	8-WM	8-WW			7-WM				6-WW		6-WW	MW-10 NW-10		MW-10
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(ng/L)	8/1/17	6/26/18		9/15/20			1/18/95	5/27/03	10/17/94			_	10/17/94		5/25/04	10/17/94		5/27/03
	Total Arsenic	25	19	122	7	7	•	•	-	5.64 J	 1	2.7 B	•	-	•	,	28.1		•	19.7 J
1000 137 254 209 143 180 615 NA	Soluble Arsenic	25	-	-	NA	NA	NA	AA	NA	7.34 J	NA	NA	AA	AA	NA	NA	NA	NA	NA	NA
1,000 124 165 NA NA </td <td>Total Banum</td> <td>1,000</td> <td>137</td> <td>254</td> <td>209</td> <td>143</td> <td>180</td> <td></td> <td>_</td> <td>65.2</td> <td></td> <td>204 B</td> <td></td> <td>77.2 B</td> <td>149 8</td> <td></td> <td>205</td> <td>33 B</td> <td>22.3 B</td> <td>16.5</td>	Total Banum	1,000	137	254	209	143	180		_	65.2		204 B		77.2 B	149 8		205	33 B	22.3 B	16.5
50 - NA - - A - NA - 27 18 NA 21 5 1 50 - NA - NA - NA - NA 21 5 - NA 21 5 1	Soluble Barium	1,000	124	165	AN	AN	NA	NA		69.2	NA	AA	AN	NA	NA	NA	NA	NA	AN	NA
50 · NA · · NA · NA · · NA · · NA · · · NA ·	Acetone	50	1	AN		-	-	4	•	AN	6	•	9		27	18	AN	21	5 J	NA
7 ···	2-Butanone	50	•	AA				•	•	NA		-	•	•	•	•	NA	•	-	NA
Dimethane 5 ·	Chloroform	2		•	-	1	-	•	•	••••	,	•	-	-	-	·	•	•	•	,
echtane 5 · </td <td>Dibromochloromethane</td> <td>5</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>- -</td> <td>•</td> <td> -</td> <td>•</td> <td>,</td> <td>•</td> <td>,</td> <td>1</td> <td></td> <td>'</td> <td>1</td> <td>,</td> <td></td>	Dibromochloromethane	5	•	•		•	•	- -	•	 -	•	,	•	,	1		'	1	,	
Tene (PCE) 5 ·· <	1,1,1.Trichloroethane	5	•	•	,	•	•	,	•	,	•	•	•		1	, ,	•	1	'	
me (TCE) 5 ··	Tetrachloroethene (PCE)	5	,	•	•	•	,	•	•	,	1	1	1	4	,	,	•		'	,
Hene 5 ·· · <td>Trichloroethene (TCE)</td> <td>5</td> <td></td> <td>-</td> <td>,</td> <td></td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>,</td> <td>ł</td> <td>•</td> <td>1</td> <td>•</td> <td>•</td> <td>•</td> <td>,</td> <td>1</td>	Trichloroethene (TCE)	5		-	,		•		•	•	•	,	ł	•	1	•	•	•	,	1
Ioride 5 · <td>1,1-Dichloroethene</td> <td>5</td> <td>,</td> <td>-</td> <td>ı</td> <td>•</td> <td>۱</td> <td>•</td> <td>-</td> <td>-</td> <td></td> <td>1</td> <td>1</td> <td>•</td> <td>1</td> <td></td> <td>r</td> <td>•</td> <td>'</td> <td>•</td>	1,1-Dichloroethene	5	,	-	ı	•	۱	•	-	-		1	1	•	1		r	•	'	•
Mane 5 ·	Methylene Chloride	5	-	-	•	•		5	1	,	8		ø		19	1	,	16		,
Mane 0.6 - · <td>1, 1-Dichloroethane</td> <td>5</td> <td>•</td> <td>1</td> <td>1</td> <td>τ</td> <td>•</td> <td>•</td> <td></td> <td>-</td> <td>'</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>,</td> <td></td> <td>'</td> <td>'</td> <td></td>	1, 1-Dichloroethane	5	•	1	1	τ	•	•		-	'	•	•		•	,		'	'	
enzene 3 - <td>1.2-Dichloroethane</td> <td>0.6</td> <td>1</td> <td>-</td> <td>•</td> <td>,</td> <td>•</td> <td>,</td> <td>'</td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td>'</td> <td>'</td> <td>,</td> <td>•</td> <td></td> <td></td>	1.2-Dichloroethane	0.6	1	-	•	,	•	,	'	•	•				'	'	,	•		
opane 1 - <td>1,2-Dichlorobenzene</td> <td>3</td> <td></td> <td>•</td> <td>1</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td> <td></td> <td>'</td> <td>•</td> <td></td>	1,2-Dichlorobenzene	3		•	1	•	•		•		•	•	•	•	•			'	•	
	1.2-Dichloropropane	1		•	•		•	•			•	26	,		•	,	,	1	•	•
	Toluene	5	'	,	•	•	•	•	,	•	•	•		•	,		,	•	'	,
	Chloroethane	5	•			,	,	,	,			•	,	,	,	ı	'	'		
	Vinyl chloride	2	1	1	,	•	,	•	•	•	1	•	•	•	,		,	•	•	

Bold data exceed NYSDEC Ambient Water Quality Standards (AWOS).
= Compound not detected above anatytical detection limits.
J * Anatytical result is an estimate.
NA = Not anatyzed.
B = Compond also identified in blank.

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Table 3 Honeywell Specialty Chemicals Groundwater Elevation Data

Monitoring	Water Level	Top of Well	Depth to	Water Table
Well	Measurement	Casing Elevation	Water	Elevation
ID	Date	(Feet AMSL)	(Feet TOC)	(Feet)
MW-1	10/17/1994	585.69	3.26	582.43
MW-1	11/8/1994	585.69	5.04	580.65
MW-1	11/15/1994	585.69	3.59	582.10
MW-1	1/17/1995	585.69	2.55	583.14
MW-2	10/17/1994	587.32	5.09	582.23
MW-2	11/8/1994	587.32	4.38	582.94
MW-2	11/15/1994	587.32	4.73	582.59
MW-2	1/17/1995	587.32	4.43	582.89
MW-2	8/23/1999	587.32	5.95	581.37
MW-2	10/19/2000	587.32	5.05	582.27
MW-2	12/10/2001	587.32	4.88	582.44
MW-2	11/19/2002	587.32	4.45	582.87
MW-2	5/27/2003	587.32	4.56	582.76
MW-2	11/13/2003	587.32	4.56	582.76
MW-2	5/25/2004	587.32	4.21	583.11
MW-2	4/28/2005	587.32	4.10	583.22
MW-2	4/25/2006	587.32	4.80	582.52
MW-2	5/1/2007	587.32	4.58	582.74
MW-2	5/6/2008	587.32	4.80	582.52
MW-2	4/21/2009	587.32	4.56	582.76
MW-2	4/29/2010	587.32	4.63	582.69
MW-2	4/19/2011	587.32	4.28	583.04
MW-2	4/17/2012	587.32	5.10	582.22
MW-2	7/9/2013	587.32	4,47	582.85
MW-2	7/9/2014	587.32	4.55	582.77
MW-2	9/8/2015	587.32	5.34	581.98
MW-2	8/16/2016	587.32	5.51	581.81
MW-2	8/1/2017	587.32	4.80	582.52
MW-2	6/26/2018	587.32	4.91	582.41
MW-2	7/29/2019	587.32	5.45	581.87
MW-2	9/15/2020	587.32	5.66	581.66
MW-2	5/27/2021	587.32	5.08	582.24
MW-3	10/17/1994	587.55	5.41	582.14
MW-3	11/8/1994	587.55	5.13	582.42
MW-3	11/15/1994	587.55	5.30	582.25
MW-3	1/17/1995	587.55	5.20	582.35
MW-3	8/23/1999	587.55	5.90	581.65
MW-3	10/19/2000	587.55	6.20	581.35
MW-3 MW-3	12/10/2001	587.55	6.18	581.37
MV-3 MW-3	11/19/2002	587.55	6.11	581.44
MW-3	5/27/2003 11/13/2003	587.55	6.09	581.46
MW-3	5/25/2004	587.55	6.43	581.12
MW-3	4/28/2005	587.55	6.57	580.98
MW-3	4/25/2005	587.55 587.55	6.40 6.10	581.15 581.45
MW-3				
MW-3	5/1/2007 5/6/2008	587.55 587.55	6.08 6.12	581.47
MW-3	4/21/2009	587.55	6.00	581.43 581.55
MW-3	4/29/2010	587.55	6.00	581.55
	4/19/2011	587.55	5.94	
MW-3	4/19/2011	587.55		581.61
MW-3	7/9/2012	587.55	6,00 5,89	581.55
MW-3	7/9/2013	587.55		581.66
MW-3	9/8/2015	587.55	5.62	581.93
MW-3	8/16/2016	587.55	5.81 5.81	581.74
MW-3	8/1/2017	587.55	5.52	581.74 582.03
	0/112011	007.00	J. J.L	502.03

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Table 3 Honeywell Specialty Chemicals Groundwater Elevation Data

Monitoring Well	Water Level Measurement	Top of Well	Depth to Water	Water Table Elevation
ID	Date	Casing Elevation (Feet AMSL)	(Feet TOC)	(Feet)
MW-3 MW-3	6/26/2018 7/29/2019	587.55 587.55	5.60	581.95
MW-3	9/15/2020	587.55	5.82 5.91	581.73 581.64
MW-3	5/27/2021	587.55	5.53	582.02
MW-4	10/17/1994	583.87	3.18	580.69
MW-4	11/8/1994	583.87	4.30	579.57
MW-4	11/15/1994	583.87	2.96	580.91
MW-4	1/17/1995	583.87	2.86	581.01
MW-5	10/17/1994	583.47	4.96	578.51
MW-5	11/8/1994	583.47	4.65	578.82
MW-5	11/15/1994	583.47	4.76	578.71
MW-5	1/17/1995	583.47	4.77	578.70
MW-5	8/23/1999	583.47	4.82	578.65
MW-5	10/19/2000	583.47	4.55	578.92
MW-5	12/10/2001	583.47	4.86	578.61
MW-5	11/19/2002	583.47	5.02	578.45
MW-5	5/27/2003	583.47	5.27	578.20
MW-5 MW-5	11/13/2003 5/25/2004	583.47 583.47	8.46 6.30	575.01 577.17
MW-5	4/28/2005	583.47	4.82	578.65
MW-5	4/25/2005	583.47	5.12	578.35
MW-5	5/1/2007	583.47	5.62	577.85
MW-5	5/6/2008	583.47	6.32	577.15
MW-5	4/21/2009	583.47	8.72	574.75
MW-5	4/29/2010	583.47	9.02	574.45
MW-5	4/19/2011	583.47	8.29	575.18
MW-5	4/17/2012	583.47	8.28	575.19
MW-5	7/9/2013	583.47	8.30	575.17
MW-5	7/9/2014	583.47	5.30	578.17
MW-5	9/8/2015	583.47	8.30	575.17
MW-5	8/16/2016	583.47	6.85	576.62
MW-5	8/1/2017	583.47	5.87	577.60
MW-5 MW-5	6/26/2018 7/29/2019	583.47 583.47	5.98	577.49 577.46
MW-5	9/15/2020	583.47	6.01 6.32	577.15
MW-5	5/27/2021	583.47	5.83	577.64
MW-6	10/17/1994	585.22	2.68	582.54
MW-6	11/8/1994	585.22	2.49	582.73
MW-6	11/15/1994	585.22	2.55	582.67
MW-6	1/17/1995	585.22	2.54	582.68
MW-6	5/27/2003	585.22	2.48	582.74
MW-6	10/17/1994	585.22	2.68	582.54
MW-6	11/8/1994	585.22	2.49	582.73
MW-6	11/15/1994	585.22	2.55	582.67
MW-6	1/17/1995	585.22	2.54	582.68
MW-6	5/27/2003	585.22	2.48	582.74
MW-6 MW-6	7/9/2013	585.22	2.75	582.47
MW-6	7/9/2014 9/8/2015	585.22 585.22	2.69 3.56	582.53
MW-6	8/16/2015	585.22	3.50	<u>581.66</u> 581.80
MW-6	8/1/2017	585.22	3.42	582.06
MW-6	6/26/2018	585.22	3.34	581.88
MW-6	7/29/2019	585.22	3.51	581.71
MW-6	9/15/2020	585.22	3.50	581.72
MW-6	5/27/2021	585.22	3.11	582.11
MW-7	10/17/1994	585.42	3,71	581.71
MW-7	11/8/1994	585.42	3.36	582.06
MW-7	11/15/1994	585.42	3.62	581.80
MW-7	1/17/1995	585.42	3.38	582.04
MW-7	7/9/2013	585.42	3.38	582.04

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Monitoring Well ID	Water Level Measurement Date	Top of Well Casing Elevation (Feet AMSL)	Depth to Water (Feet TOC)	Water Table Elevation (Feet)	
MW-7	7/9/2014	585.42	3.40	582.02	
MW-7	9/8/2015	585.42	3.75	581.67	
MW-7	8/16/2016	585.42	3.84	581.58	-
MW-7	8/1/2017	585.42	3.60	581.82	
MW-7	6/26/2018	585,42	3.46	581.96	-
MW-7	7/29/2019	585.42	3.85	581.57	1
MW-7	9/15/2020	585.42	3.90	581.52	4
MW-7	5/27/2021	585.42	3.36	582.06	1
MW-8	10/17/1994	587.94	5.55	582.39	1
MW-8	11/8/1994	587.94	5.40	582.54	1
MW-8	11/15/1994	587.94	5.53	582.41	1
MW-8	1/17/1995	587,94	5.82	582.12	-
MW-8	8/23/1999	587.94	5.40	582.54	-
MW-8	10/19/2000	587.94	5.30	582.64	1
MW-8	12/10/2001	587.94	5.35	582.59	1
MW-8	11/19/2002	587.94	5.25	582.69	4
MW-8	5/27/2003	587.94	5.21	582.73	-1
MW-8	11/13/2003	587.94	5.09	582.85	1
MW-8	5/25/2004	587.94	4,91	583.03	-{
MW-8	4/28/2005	587.94	4.99	582.95	-
MW-8	4/25/2006	587.94	5.3	582.64	4
MW-8	5/1/2007	587.94	5.23	582.71	-
MW-8	5/6/2008	587.94	5.25	582.69	-
MW-8	4/21/2009	587.94	4.68	583.26	-
	4/29/2010	587.94	5.32	582.62	4
MW-8	4/19/2011	587.94	5.12	582.82	1
MW-8	4/17/2012	587.94	5.43	582.51	-
MW-8	7/9/2013	587.94	4.86	583.08	
MW-8	7/9/2014	587.94	4.82	583.12	-
MW-8	9/8/2015	587.94	5.46	582.48	-
MW-8	8/16/2016	587.94	5.05	582.89	4
MW-8	8/1/2017	587.94	5.09	582.85	-
MW-8	6/26/2018	587.94	5.10	582.84	4
MW-8	7/29/2019	587.94	5.15	582.79	4
MW-8	9/15/2020	587.94	5.14	582.80	ł
MW-8	5/27/2021	587.94	5.23	582.71	-
MW-9	10/17/1994	584.48	2.39	582.09	4
	11/8/1994	584.48	1.83	582.65	4
MW-9	11/15/1994	584.48	2.09	582.39	4
MW-9	1/17/1995	584.48	2.09	582.39	4
MW-9	10/19/2000	584.48	0.00	584.48	4
MW-9	5/27/2003	584.48	1.91	582.57	4
MW-9	5/25/2004	584,48	2.90	581.58	-
MW-9	4/19/2011	584.48	2.30	582.22	1
MW-9	4/17/2012	584.48	1.86	582.22	4
MW-9	7/9/2013	584.48	2.26	582.62	
	7/9/2013	584.48			
MW-9	9/8/2015	584.48	2.50	581.98	
MW-9	8/16/2016		2.45	582.03	4
MW-9		584.48	2.10	582.38	1
	8/1/2017	584.48	1.68	582.80	4
MW-9	6/26/2018	584.48	2.76	581.72	1
MW-9 MW-9	7/29/2019 9/15/2020	584.48	2.66	581.82	
		584.48	2.66	581.82	1

Table 3 Honeywell Specialty Chemicals Groundwater Elevation Data

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Table 3Honeywell Specialty ChemicalsGroundwater Elevation Data

Monitoring Well	Water Level Measurement	Top of Well Casing Elevation	Depth to Water	Water Table Elevation
ID	Date	(Feet AMSL)	(Feet TOC)	(Feet)
MW-10	10/17/1994	587.85	5.31	582.54
MW-10	11/8/1994	587.85	3.44	584.41
MW-10	11/15/1994	587.85	3.98	583.87
MW-10	1/17/1995	587.85	3.40	584.45
MW-10	8/23/1999	587.85	7.83	580.02
MW-10	10/19/2000	587.85	5.01	582.84
MW-10	12/10/2001	587.85	4.13	583.72
MW-10	11/19/2002	587.85	4.23	583.62
MW-10	5/27/2003	587.85	3.85	584.00
MW-10	11/13/2003	587.85	3.63	584.22
MW-10	5/25/2004	587.85	3.00	584.85
MW-10	4/28/2005	587.85	3.53	584.32
MW-10	4/25/2006	587.85	4.65	583.20
MW-10	5/1/2007	587.85	6.89	580.96
MW-10	5/6/2008	587.85	4.02	583.83
MW-10	4/21/2009	587.85	6.82	581.03
MW-10	4/29/2010	587.85	4.40	583.45
MW-10	4/19/2011	587.85	3.42	584.43
MW-10	4/17/2012	587.85	5.84	582.01
MW-10	7/9/2013	587.85	3.49	584.36
MW-10	7/9/2014	587.85	3.60	584.25
MW-10	9/8/2015	587.85	5.55	582.3
MW-10	8/16/2016	587.85	5.64	582.21
MW-10	8/1/2017	587.85	5.07	582.78
MW-10	6/26/2018	587.85	4.39	583.46
MW-10	7/29/2019	587.85	5.21	582.64
MW-10	9/15/2020	587.85	4.81	583.04
MW-10	5/27/2021	587.85	4.61	583.24

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Appendix C – Annual Site Evaluation

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Site-Wide Inspection Form (Annual and Emergency) NYS DEC REGION 9

Honeywell, Inc. Buffalo Research Laboratory Buffalo, New York

SECTION I. GENERAL INFORMATION

Inspector Name and Title:	MAR Kand	ales HSE	Managin	
Names of Others Present	During Inspection:	NIA		
Data of Inanastian:	1	T		····
	5/27/21	Time of Ins	pection: <u>11:00 Adv</u>	
Date of Last Inspection:	11/22/ 2100			
Weather: 65%	Senara			

SECTION II. INSTITUTIONAL & ENGINEERING CONTROLS

Complete a Cover Inspection Form (in fulfillment of either the quarterly/annual or emergency requirements). Attach the form to this one, and answer the following questions.

1. Is the Site use consistent with Institutional Controls laid out in the Environmental Easement? These include relegation of the Site to industrial use, prohibition of groundwater use, and the prohibition of vegetable growing/farming, and annual certifications.

es) N	lo
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2. Do the Engineering Controls laid out in the Site Management Plan (SMP) continue to be in place and effective, as evidenced by continued and current Site cover and Groundwater Monitoring Programs, in accordance with the Site Monitoring Plan (Section 4.0 of the SMP) and Cover Repair Plan (Section 7.0 of the SMP)?



- 3. Has the Site gone without any non-routine management activities that are not already covered by an Excavation Work Plan?
 - (Yes) No
- 4. Has the Site complied with all permit and reporting requirements since the completion of the last Site-wide Inspection?

nes No

5. Are all Site records up to date?

(es) No

SECTION III. IDENTIFICATION OF SITUATIONS REQUIRING ACTION

If you answered "No" to any questions in Section II, complete the following (place a check next to each item to verify completion):

1. Attach a detailed description of the reason(s) for which you answered "No" in Section II. Include photographs as appropriate.

2. Identify on an attached Site Plan the approximate location of the area(s) for which you answered "Yes" in Section II, if applicable.

3. Immediately notify and provide a copy of this form to the Honeywell HSE Manager or designee so that corrective action can be implemented in accordance with the Site Monitoring and Cover Repair Plans (Sections 4.0 and 7.0 of the Site Management Plan). Obtain HSE Manager or designee signature below.

SECTION IV. SIGNATURES Required for each inspection: MAR Kande Mille <u>ج/د/جر</u> Date If required by Section III: 5/22/01 Malle HSE Manager Date or **HSE Manager Designee** Date Attachments (List): Cour Enspection form Filing Requirements: Original to Inspection Form file Copy to HSE Manager or designee Copy to be included in Periodic Review Report Appendix D - Site Soil Disturbance Events Documentation – Water Main Break

Kandefer, Matt

From:	Lis, James
Sent:	Wednesday, February 10, 2021 8:56 AM
То:	joshua.vaccaro@dec.ny.gov
Cc:	Cantie, Thomas; Kandefer, Matt
Subject:	Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA
	Corrective Action Consent Order

<u>To:</u> Joshua Vaccaro Division of Materials Management <u>NYSDEC, 270 Michigan Avenue, Buffalo, New York</u> 14203

The purpose of this email is inform you of an emergency excavation that needs to be performed at our facility. Per the RCRA CA consent order, Honeywell will have to excavate an undetermined amount of soil and stone underneath a roadway to expose a water main leak for repairs (designated by the X in the picture below). All of the soil will be collected and stored on site on plastic tarps and protected from the elements with the same poly tarps. The soil will be sampled and analyzed by a third party laboratory to determine if there are any hazardous constituents per our above mentioned consent order.



If there are any question or concerns, please contact me at any time.

Thank you.

James J. Lis CHMM

Safety Engineer II

Honeywell Buffalo Research Laboratory 20 Peabody Street Buffalo, NY 14210 Office: 716-827-1487 Mobile: 716-331-0487







ANALYTICAL REPORT

Lab Number:	L2113753
Client:	Honeywell 20 Peobody Street Buffalo, NY 14120
ATTN: Phone: Project Name: Project Number: Report Date:	James Lis (716) 827-6318 WATER MAIN BREAK 2/10/21 Not Specified 03/30/21
•	

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:03302113:08

Project Name:	WATER MAIN BREAK 2/10/21
Project Number:	Not Specified

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2113753-01	SOIL PILE COMP	SOIL	BUFFALO, NY	03/19/21 10:20	03/19/21

Project Name:WATER MAIN BREAK 2/10/21Project Number:Not Specified

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:WATER MAIN BREAK 2/10/21Project Number:Not Specified

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1477843-3 MS recovery, performed on L2113753-01, is outside the acceptance criteria for arsenic (58%). A post digestion spike was performed and yielded an unacceptable recovery for arsenic (33%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Cattlin Wallen Caitlin Walukevich

Title: Technical Director/Representative

Date: 03/30/21



ORGANICS



VOLATILES



		Serial_No:03302113:08
Project Name:	WATER MAIN BREAK 2/10/21	Lab Number: L2113753
Project Number:	Not Specified	Report Date: 03/30/21
	SAMPLE RESULTS	
Lab ID:	L2113753-01	Date Collected: 03/19/21 10:20
Client ID:	SOIL PILE COMP	Date Received: 03/19/21
Sample Location:	BUFFALO, NY	Field Prep: Not Specified
Sample Depth:		
Matrix:	Soil	
Analytical Method:	1,8260C	
Analytical Date:	03/29/21 21:24	
Analyst:	MM	
Percent Solids:	91%	
TCLP/SPLP Ext. Da	ate: 03/28/21 15:24	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westb	orough Lab					
Chloroform	ND		ug/I	7.5	2.2	10
Carbon tetrachloride	ND		ug/l ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Acceptance Qualifier Criteria	;
1,2-Dichloroethane-d4	127	70-130	
Toluene-d8	89	70-130	
4-Bromofluorobenzene	96	70-130	
dibromofluoromethane	118	70-130	



L2113753

03/30/21

Lab Number:

Report Date:

Project Name: WATER MAIN BREAK 2/10/21

Project Number: Not Specified

Method Blank Analysis Batch Quality Control

Analytical Method:	1,8260C
Analytical Date:	03/29/21 21:01
Analyst:	MM
TCLP/SPLP Extraction Date:	03/28/21 14:28

Extraction Date: 03/28/21 14:28

arameter	Result	Qualifier Units	RL	MDL	
CLP Volatiles by EPA 1311 - We	estborough Lat	o for sample(s):	01 Batch:	WG1480252-5	
Chloroform	ND	ug/l	7.5	2.2	
Carbon tetrachloride	ND	ug/l	5.0	1.3	
Tetrachloroethene	ND	ug/l	5.0	1.8	
Chlorobenzene	ND	ug/l	5.0	1.8	
1,2-Dichloroethane	ND	ug/l	5.0	1.3	
Benzene	ND	ug/l	5.0	1.6	
Vinyl chloride	ND	ug/l	10	0.71	
1,1-Dichloroethene	ND	ug/l	5.0	1.7	
Trichloroethene	ND	ug/l	5.0	1.8	
1,4-Dichlorobenzene	ND	ug/l	25	1.9	
2-Butanone	ND	ug/l	50	19.	

			Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
				_
1,2-Dichloroethane-d4	127		70-130	
Toluene-d8	94		70-130	
4-Bromofluorobenzene	85		70-130	
dibromofluoromethane	118		70-130	



Lab Control Sample Analysis Batch Quality Control

Project Number: Not Specified

	LCS		LCSD		%Recovery			RPD
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
TCLP Volatiles by EPA 1311 - Westborough	Lab Associated	d sample(s): 0 [,]	1 Batch: WG	1480252-3	WG1480252-4			
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
Tetrachloroethene	95		88		70-130	8		20
Chlorobenzene	91		92		75-130	1		25
1,2-Dichloroethane	110		120		70-130	9		20
Benzene	100		100		70-130	0		25
Vinyl chloride	93		84		55-140	10		20
1,1-Dichloroethene	100		99		61-145	1		25
Trichloroethene	90		89		70-130	1		25
1,4-Dichlorobenzene	91		92		70-130	1		20
2-Butanone	120		130		63-138	8		20

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117	121	70-130
Toluene-d8	93	95	70-130
4-Bromofluorobenzene	96	94	70-130
dibromofluoromethane	108	105	70-130



METALS



Serial_No:03302113:08

Project Name: WATER MAIN BREAK 2/10/21

Project Number:	Not Specified
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SAMPLE RESULTS

Lab ID: L2113753-01 Client ID: SOIL PILE COMP BUFFALO, NY Sample Location:

Sample Depth:

Matrix: Soil t Solida р

Report Date: 03/30/21 Date Collected:

Date Received: Field Prep:

Lab Number:

03/19/21 10:20 03/19/21 Not Specified

L2113753

TCLP/SPLP Ext. Date: 03/22/21 03:43

	•••										
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
TCLP Metals by Ef	PA 1311 -	Mansfield	Lab								
Arsenic, TCLP	0.041	J	mg/l	1.00	0.019	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Barium, TCLP	0.446	J	mg/l	0.500	0.021	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Lead, TCLP	0.028	J	mg/l	0.500	0.027	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/24/21 12:48	03/26/21 00:04	EPA 7470A	1,7470A	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/24/21 12:48	03/24/21 21:43	EPA 3015	1,6010D	SV



Serial_No:03302113:08

Project Name:	WATE	ER MAIN B	REAK 2/	10/21			Lab Nu	mber:	L21137	53	
Project Number:	Not S	pecified					Report	Date:	03/30/2	1	
-				SAMPL	E RES	ULTS	-				
Lab ID:	L2113	753-01					Date Co	ollected:	03/19/21	10:20	
Client ID:	SOIL I	PILE COM	Р				Date Re	eceived:	03/19/21		
Sample Location:	BUFF	ALO, NY					Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Soil										
Percent Solids:	91%					B 11 (1	5.4	5	_	Ampluting	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Arsenic, Total	40.7		mg/kg	0.413	0.086	1	03/24/21 11:0	7 03/29/21 16:21	EPA 3050B	1,6010D	SV



Project Name:WATER MAIN BREAK 2/10/21Project Number:Not Specified

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1	311 - Mansfield Lab	for sample	e(s): 01	Batch:	WG14778	10-1			
Arsenic, TCLP	ND	mg/l	1.00	0.019	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Barium, TCLP	ND	mg/l	0.500	0.021	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Cadmium, TCLP	ND	mg/l	0.100	0.010	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Chromium, TCLP	ND	mg/l	0.200	0.021	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Lead, TCLP	ND	mg/l	0.500	0.027	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Selenium, TCLP	ND	mg/l	0.500	0.035	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV
Silver, TCLP	ND	mg/l	0.100	0.028	1	03/24/21 12:48	03/24/21 20:29	1,6010D	SV

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 03/21/21 06:40

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
TCLP Metals by EF	PA 1311 - Mansfield Lab	for sample	e(s): 01	Batch:	WG14778	19-1			
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	03/24/21 12:48	03/25/21 15:20	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A TCLP/SPLP Extraction Date: 03/21/21 06:40

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	01 Batch	: WG14	477843-	1				
Arsenic, Total	ND	mg/kg	0.400	0.083	1	03/24/21 11:07	03/29/21 15:58	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis

Batch Quality Control

Lab Number: L2113753 Report Date: 03/30/21

Project Number: Not Specified

WATER MAIN BREAK 2/10/21

Project Name:

LCS LCSD %Recovery Limits %Recovery Qual %Recovery RPD **RPD** Limits Parameter Qual Qual TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1477810-2 Arsenic, TCLP 109 -75-125 20 Barium, TCLP 93 75-125 20 --Cadmium, TCLP 109 75-125 20 --Chromium, TCLP 75-125 20 100 --Lead, TCLP 102 75-125 20 --Selenium, TCLP 108 -75-125 20 Silver, TCLP 95 75-125 20 --TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1477819-2 80-120 Mercury, TCLP 111 -Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1477843-2 SRM Lot Number: D109-540 Arsenic, Total 92 70-130 --



Matrix Spike Analysis Batch Quality Control

Project Name: WATER MAIN BREAK 2/10/21

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Project Number: Not Specified

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recover Qual Limits		RPD Qual Limits
TCLP Metals by EPA 1311	- Mansfield Lab	Associated	sample(s): 01	QC Batch	ID: WG	1477810-3	QC Sample:	L2113900-03	Client ID:	MS Sample
Arsenic, TCLP	ND	1.2	1.26	105		-	-	75-125	-	20
Barium, TCLP	0.388J	20	18.9	94		-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.543	106		-	-	75-125	-	20
Chromium, TCLP	ND	2	1.96	98		-	-	75-125	-	20
Lead, TCLP	ND	5.1	5.08	100		-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.28	107		-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.476	95		-	-	75-125	-	20
TCLP Metals by EPA 1311	- Mansfield Lab	Associated	sample(s): 01	QC Batch	ID: WG	1477819-3	QC Sample:	L2113471-01	Client ID:	MS Sample
Mercury, TCLP	ND	0.025	0.0273	109		-	-	80-120	-	20
Total Metals - Mansfield Lab	o Associated sar	mple(s): 01	QC Batch ID	D: WG147784	3-3 (QC Sample:	L2113753-01	Client ID: SO	IL PILE CO	OMP
Arsenic, Total	40.7	10.3	46.7	58	Q	-	-	75-125	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: WATER MAIN BREAK 2/10/21

 Lab Number:
 L2113753

 Report Date:
 03/30/21

Project Number: Not Specified

arameter	Native Samp	le Duplicate Sample	Units	RPD	Qual	RPD Limits
CLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1477810-4	QC Sample:	L2113900-03	Client ID:	DUP Sample
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.388J	0.392J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
CLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1477819-4	QC Sample:	L2113471-01	Client ID:	DUP Sample
Mercury, TCLP	ND	ND	mg/l	NC		20
otal Metals - Mansfield Lab Associated sa	mple(s): 01 QC Batch ID:	WG1477843-4 QC Sample:	L2113753-01	Client ID: SC	DIL PILE CO	OMP
Arsenic, Total	40.7	40.5	mg/kg	0		20



Project Name: Project Number:	WATER MAIN BREAK 2/10/21 Not Specified		ab Serial Diluti Analysis Batch Quality Contr		_	ab Number: eport Date:	L2113753 03/30/21
Parameter		Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield	Lab Associated sample(s): 01	QC Batch ID: WG14778	343-6 QC Sample:	L2113753-01	Client ID: S	OIL PILE CO	MP
Arsenic, Total		40.7	42.4	mg/kg	4		20



INORGANICS & MISCELLANEOUS



Serial No:03302113:08	Serial	No:03302113:08
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Project Name: Project Number:	WATER MAI	VATER MAIN BREAK 2/10/21 Not Specified						lumber: rt Date:	L2113753 03/30/21	
				SAMPLE	RESUL	ГS				
Lab ID:	L2113753-0 ²	1					Date	Collected:	03/19/21 10:20)
Client ID:	SOIL PILE C	SOIL PILE COMP					Date	Received:	03/19/21	
Sample Location:	BUFFALO, N	١Y					Field	Prep:	Not Specified	
Sample Depth:										
Matrix:	Soil									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analys
eneral Chemistry - We	stborough Lab)								
lids, Total	91.3		%	0.100	NA	1	-	03/22/21 20:5	58 121,2540G	TR



20

Project Name: Project Number:	WATER MAIN BREAK 2/10/21 Not Specified	La	ab Duplicate Analy Batch Quality Control			ab Numbe eport Date	Ez 115/35
Parameter		Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Wes	stborough Lab Associated samp	le(s): 01 QC Batch I	D: WG1477356-1 QC S	ample: L2113	3753-01 CI	ient ID: So	OIL PILE COMP

87.8

%

4

91.3



Solids, Total

Project Name:WATER MAIN BREAK 2/10/21Project Number:Not Specified

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2113753-01A	Plastic 2oz unpreserved for TS	А	NA		2.5	Y	Absent		TS(7)
L2113753-01B	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		TCLP-EXT-ZHE(14)
L2113753-01C	Metals Only-Glass 60mL/2oz unpreserved	А	NA		2.5	Y	Absent		AS-TI(180)
L2113753-01D	Glass 250ml/8oz unpreserved	А	NA		2.5	Y	Absent		-
L2113753-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG- C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG- CI(180)
L2113753-01X9	Tumble Vessel	А	NA		2.5	Y	Absent		-
L2113753-01Y	Vial unpreserved Extracts	А	NA		2.5	Y	Absent		TCLP-VOA(14)
L2113753-01Z	Vial unpreserved Extracts	А	NA		2.5	Y	Absent		TCLP-VOA(14)



Serial_No:03302113:08

Project Name: WATER MAIN BREAK 2/10/21

Project Number: Not Specified

Lab Number: L2113753

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GLOSSARY

Acronyms

Acronyms	
DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Project Number: Not Specified Lab Number: L2113753

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Footnotes

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The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- н - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- М - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.



Project Name:WATER MAIN BREAK 2/10/21Project Number:Not Specified

 Lab Number:
 L2113753

 Report Date:
 03/30/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW:</u> PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. **Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8**: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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VEOLIA ENVIRONMENTAL SERVICES

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TRANSPORTER INT'L	 14. Special Handling Instructio 0087; CONTRJ substitute ad dita 15. GENERATOR S/OFFER marked and labeled/place Generator's/Offeror's Printed/T JAMES L.IS 16. International Shipments Transporter Signature (for exp 17 Transporter Acknowledgme Pensporter 1 Printed/Typed National Shipments Transporter 2 Printed/Typed National Shipments 18. Discrepancy 18. Discrepancy 18. Alternate Facility (or Gene Facility's Phone: 18. Signature of Atternate Facility 19. Report Management Methon 1. 	DAR S CERTIFICATION: I he arded, and are in all respects yped Name import to U.S urts only): nt of Receipt of Shipment arne Dace Quantity erator) Sility (or Generator) od Codes (i.e., codes for trea 2.	treby declare that the in proper condition	e contents of this of for transport accord IRA Type	s) Source 18 a consignment a rding to applica Sign Sign Sign 3. 1 tem 18 a	alure s. ature ature Resid	arately desired and nation	vibed above nal governm	e by the proper sh leental regulations.	ipping name	e, and are cla	nth Day nth Day nth Day Full Re	rear Pear Pear Year Year

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Appendix E - Site Soil Disturbance Events Documentation – Storm Sewer Modifications



ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com

1/22/2022

Mr. Joshua Vaccaro NYS Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203-2915

Re: Site Management Plan – Stormwater Improvements NYSDEC Site Number 915002

Dear Mr. Vaccaro:

Honeywell completed stormwater system improvements at the site in 2021. In Excavation #1, we redirected storm sewer flow to a larger stormwater truck as the site has experienced significant flooding over the past 12 months. Excavations were 0-6 ft in depth. This area is listed as partially occurring in Area # 2 in the Site Management Plan, which has known arsenic contamination of 46.8 to 343 mg/kg.

Occhino Corp performed the following scope of work for the storm sewer excavation, labeled as Excavation # 1 on the attached map:

Occhino Corp is pleased to provide the following quote for work at the above-mentioned address.

Place approx. 300' HDPE bedded in #1 clean stone Place 1 24" x 24" drainage inlet with bicycle safe frame and grate Place approx. 40' 6" HDPE connecting DI to 12" pipe Place 10' 6" HDPE connected to 12" HDPE (stub with end cap for later use) Excavate existing main trunk line Place necessary shoring Cut and connect new 12" line to existing trunk line Pour concrete collar with rebar reinforcement Backfill in 12" lifts with #2 crush limestone to grade Place 3" Type 3 Dense binder Place 1" Type 7 top Restore concrete sidewalks with asphalt for temporary access over winter

All soil was excavated and staged for sampling and disposal. Soil was staged on poly sheeting and covered with poly sheeting until the sample results were received. The stone backfill for all excavations was obtained from Occhino Corp from New Enterprise Stone and Gravel – Werhle Drive Location. The soil disposal was handled through Veolia to an approved landfill (Waste Management -Chaffee).

Photos, laboratory analysis and waste manifests are attached.



ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com

Photos:







ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com



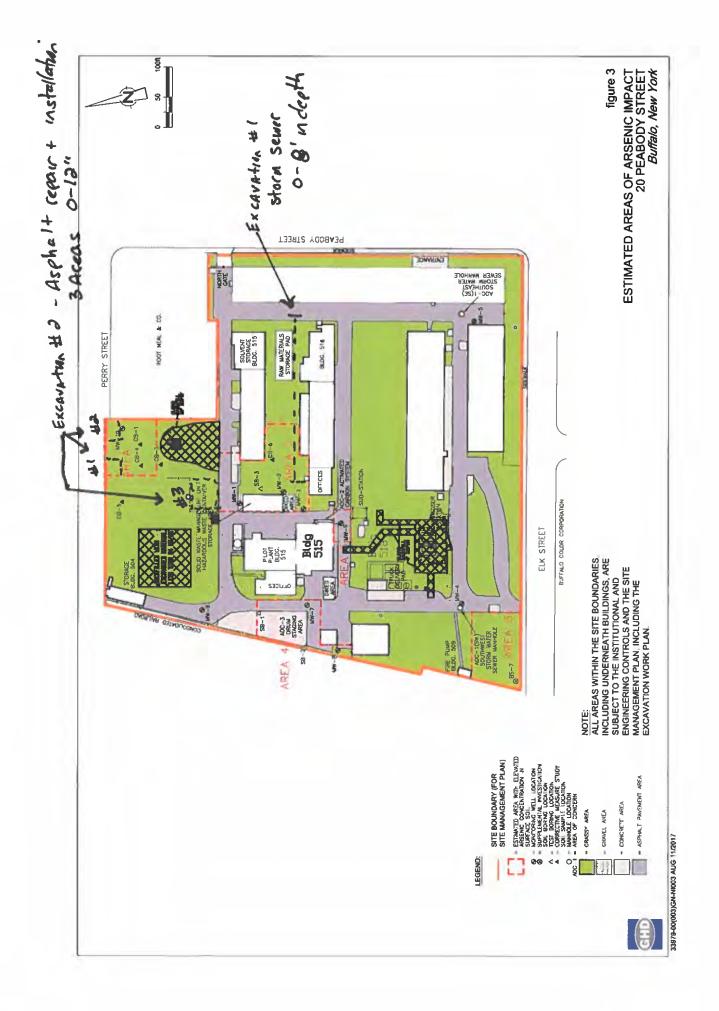




ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com









ANALYTICAL REPORT

Lab Number:	L2166037
Client:	Honeywell
	20 Peabody Street
	Buffalo, NY 14120
ATTN:	Matthew Kandefer
Phone:	(716) 827-6318
Project Name:	SOIL SAMPLING DEC 2021
Project Number:	Not Specified
Report Date:	12/16/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

 Lab Number:
 L2166037

 Report Date:
 12/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2166037-01	ASPHALT SOIL REMOVAL	SOIL	BUFFALO, NY	12/02/21 10:00	12/02/21
L2166037-02	STORM SEWER MODIFICATION SOIL COMP A	SOIL	BUFFALO, NY	12/02/21 10:05	12/02/21
L2166037-03	STORM SEWER MODIFICATION SOIL COMP B	SOIL	BUFFALO, NY	12/02/21 10:10	12/02/21



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

Lab Number: L2166037 Report Date: 12/16/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name: SOIL SAMPLING DEC 2021 Project Number: Not Specified
 Lab Number:
 L2166037

 Report Date:
 12/16/21

Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

Total Metals

The WG1581706-3 MS recovery for arsenic (145%), performed on L2166037-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1581706-4 Laboratory Duplicate RPD for arsenic (93%), performed on L2166037-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/16/21



VOLATILES



		Serial_No	0:12162116:46
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037
Project Number:	Not Specified	Report Date:	12/16/21
	SAMPLE RESULTS		
Lab ID:	L2166037-01	Date Collected:	12/02/21 10:00
Client ID:	ASPHALT SOIL REMOVAL	Date Received:	12/02/21
Sample Location:	BUFFALO, NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	12/07/21 20:23		
Analyst:	NLK		
Percent Solids:	77%		
TCLP/SPLP Ext. Da	ate: 12/06/21 12:58		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
ICLP Volatiles by EPA 1311 - Westborough Lab									
Chloroform	ND		ug/l	7.5		10			
Carbon tetrachloride	ND		ug/l	5.0		10			
Tetrachloroethene	ND		ug/l	5.0		10			
Chlorobenzene	13		ug/l	5.0		10			
1,2-Dichloroethane	ND		ug/l	5.0		10			
Benzene	ND		ug/l	5.0		10			
Vinyl chloride	ND		ug/l	10		10			
1,1-Dichloroethene	ND		ug/l	5.0		10			
Trichloroethene	ND		ug/l	5.0		10			
1,4-Dichlorobenzene	ND		ug/l	25		10			
2-Butanone	ND		ug/l	50		10			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	112		70-130	
Toluene-d8	91		70-130	
4-Bromofluorobenzene	92		70-130	
dibromofluoromethane	112		70-130	



		Serial_No	p:12162116:46
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037
Project Number:	Not Specified	Report Date:	12/16/21
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2166037-02 STORM SEWER MODIFICATION SOIL COMP A BUFFALO, NY	Date Collected: Date Received: Field Prep:	12/02/21 10:05 12/02/21 Not Specified
Sample Depth:			
Matrix: Analytical Method: Analytical Date: Analyst: Percent Solids:	Soil 1,8260C 12/07/21 20:43 NLK 78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
ICLP Volatiles by EPA 1311 - Westborough Lab									
Chloroform	ND		ug/l	7.5		10			
Carbon tetrachloride	ND		ug/l	5.0		10			
Tetrachloroethene	ND		ug/l	5.0		10			
Chlorobenzene	ND		ug/l	5.0		10			
1,2-Dichloroethane	ND		ug/l	5.0		10			
Benzene	ND		ug/l	5.0		10			
Vinyl chloride	ND		ug/l	10		10			
1,1-Dichloroethene	ND		ug/l	5.0		10			
Trichloroethene	ND		ug/l	5.0		10			
1,4-Dichlorobenzene	ND		ug/l	25		10			
2-Butanone	ND		ug/l	50		10			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	112	70-130	
Toluene-d8	94	70-130	
4-Bromofluorobenzene	93	70-130	
dibromofluoromethane	110	70-130	



TCLP/SPLP Ext. Date: 12/06/21 12:58

		Serial_No	p:12162116:46
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037
Project Number:	Not Specified	Report Date:	12/16/21
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY	Date Collected: Date Received: Field Prep:	12/02/21 10:10 12/02/21 Not Specified
Sample Depth:			
Matrix: Analytical Method: Analytical Date: Analyst: Percent Solids:	Soil 1,8260C 12/07/21 21:03 NLK 76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
ICLP Volatiles by EPA 1311 - Westborough Lab									
Chloroform	ND		ug/l	7.5		10			
Carbon tetrachloride	ND		ug/l	5.0		10			
Tetrachloroethene	ND		ug/l	5.0		10			
Chlorobenzene	ND		ug/l	5.0		10			
1,2-Dichloroethane	ND		ug/l	5.0		10			
Benzene	ND		ug/l	5.0		10			
Vinyl chloride	ND		ug/l	10		10			
1,1-Dichloroethene	ND		ug/l	5.0		10			
Trichloroethene	ND		ug/l	5.0		10			
1,4-Dichlorobenzene	ND		ug/l	25		10			
2-Butanone	ND		ug/l	50		10			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	116		70-130	
Toluene-d8	95		70-130	
4-Bromofluorobenzene	90		70-130	
dibromofluoromethane	110		70-130	



TCLP/SPLP Ext. Date: 12/06/21 12:58

METALS



1,6010D

1,6010D

1,6010D

1,6010D

1,7470A

1,6010D

1,6010D

DL

DL

DL

DL

AC

DL

DL

Project Name:	SOIL	SOIL SAMPLING DEC 2021				Lab Nu	mber:	L21660)37		
Project Number:	Not S	pecified					Report	Date:	12/16/2	21	
SAMPLE RESULTS											
Lab ID:	L2166	037-01					Date Co	ollected:	12/02/21	1 10:00	
Client ID:	ASPH	ALT SOIL	REMOVA	L			Date Re	eceived:	12/02/21	1	
Sample Location:	BUFF	ALO, NY					Field Pr	ep:	Not Spe	cified	
Sample Depth:							TCLP/S	PLP Ext. Date	e: 12/07/2	1 15:02	
Matrix:	Soil										
Percent Solids:	77%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
TCLP Metals by EP	A 1311 -	Mansfield	Lab								
Arsenic, TCLP	ND		mg/l	1.00		1	12/12/21 17:44	4 12/13/21 21:55	EPA 3015	1,6010D	DL



Barium, TCLP

Cadmium, TCLP

Chromium, TCLP

Lead, TCLP

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

ND

ND

ND

ND

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

0.500

0.100

0.200

0.500

0.0010

0.500

0.100

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1

1

1

1

1

1

1

12/12/21 17:44 12/13/21 21:55 EPA 3015

12/12/21 16:41 12/13/21 10:42 EPA 7470A

12/12/21 17:44 12/13/21 21:55 EPA 3015

12/12/21 17:44 12/13/21 21:55 EPA 3015

Project Name:	SOIL	SAMPLIN	3 DEC 20	21			Lab Nu	mber:	L21660	37	
-				21					L21000	01	
Project Number:	Not S	pecified					Report	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-01					Date Co	ollected:	12/02/21	10:00	
Client ID:	ASPH	ALT SOIL	REMOVA	L			Date R	eceived:	12/02/21		
Sample Location:	BUFF	ALO, NY					Field P	rep:	Not Spee	cified	
Sample Depth:											
Matrix:	Soil										
Percent Solids:	77%								_		
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Arsenic, Total	59.8		mg/kg	0.494		1	12/13/21 12:0	0 12/15/21 17:20	EPA 3050B	1,6010D	EW



Project Name:SOIL SAMPLING DEC 2021Lab Number:L2166037Project Number:Not SpecifiedReport Date:12/16/21SAMPLE RESULTSLab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP A BUFFALO, NYDate Date Date DateNot Specified	
SAMPLE RESULTSLab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP AField Prep:Not SpecifieBUFFALO, NYField Prep:Not Specifie	
Lab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP A BUFFALO, NYField Prep:Not Specifie	
Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP AField Prep:Not SpecifieBUFFALO, NYField Prep:Not Specifie	
Sample Location: COMP A Field Prep: Not Specifie BUFFALO, NY	
BUFFALO, NY	
	d
Sample Depth: TCLP/SPLP Ext. Date: 12/07/21 15	5:02
Matrix: Soil	
Percent Solids: 78% Dilution Date Date Prep A	nalytical
	Method Analysi
TCLP Metals by EPA 1311 - Mansfield Lab	
Arsenic, TCLP ND mg/l 1.00 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	,6010D DL
Barium, TCLP 0.649 mg/l 0.500 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	,6010D DL
	,6010D DL
Cadmium, TCLP ND mg/l 0.100 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	
	,6010D DL

1,7470A

1,6010D

1,6010D

AC

DL

DL

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

mg/l

mg/l

mg/l

0.0010

0.500

0.100

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1

1

1

12/12/21 16:41 12/13/21 10:52 EPA 7470A

12/12/21 17:44 12/13/21 21:42 EPA 3015

12/12/21 17:44 12/13/21 21:42 EPA 3015

Project Name:	SOIL	SAMPLIN	G DEC 20)21			Lab Nu	mber:	L21660	37	
Project Number:	Not S	pecified					Report	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-02					Date Co	ollected:	12/02/21	10:05	
Client ID:	STOR	M SEWEF	R MODIFI	CATION	SOIL		Date Re	eceived:	12/02/21		
Sample Location:		P A ALO, NY					Field Pr	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Soil										
Percent Solids:	78%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analys
Parameter Total Metals - Mans		Qualifier	Units	RL	MDL	Factor		Analyzeu	Metriod	Method	Ar
Arsenic, Total	21.6		mg/kg	0.509		1	12/13/21 12:0	0 12/15/21 17:05	EPA 3050B	1,6010D	ΕV



12/12/21 16:41 12/13/21 11:02 EPA 7470A

12/12/21 17:44 12/13/21 21:46 EPA 3015

12/12/21 17:44 12/13/21 21:46 EPA 3015

Project Name:	SOIL	SAMPLING	G DEC 20	021			Lab Nun	nber:	L21660	37	
Project Number:	Not S	pecified					Report I	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-03					Date Col	llected:	12/02/21	10:10	
Client ID:	STOR	M SEWER	MODIF	ICATION	SOIL		Date Re	ceived:	12/02/21		
Sample Location:	COMF BUFF	P B ALO, NY					Field Pre	ep:	Not Spe	cified	
Sample Depth:							TCLP/SF	PLP Ext. Date	e: 12/07/21	15:02	
Matrix:	Soil										
Percent Solids:	76%					Dilution	Data	Dete	Duen	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Date Prepared	Date Analyzed	Prep Method	Method	Analyst
TCLP Metals by EP	A 1311 -	Mansfield I	Lab								
Arsenic, TCLP	ND		mg/l	1.00		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Barium, TCLP	0.622		mg/l	0.500		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Lead, TCLP	ND		mg/l	0.500		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

mg/l

mg/l

mg/l

0.0010

0.500

0.100

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1

1

1



1,7470A

1,6010D

1,6010D

AC

DL

DL

SOIL	SAMPLING	G DEC 20)21			Lab Nu	mber:	L21660	37	
Not Sp	pecified					Report	Date:	12/16/2	1	
			SAMPL	E RES	ULTS					
L2166	037-03					Date Co	ollected:	12/02/21	10:10	
STOR	M SEWER	MODIFI	CATION	SOIL		Date Re	eceived:	12/02/21		
	_					Field Pr	ep:	Not Spec	cified	
Soil										
76%					Dilution	Date	Date	Prop	Analytical	
Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analys
	quanter	Units				•	-			
	Not S L2166 STOR COMF BUFF Soil 76%	Not Specified L2166037-03 STORM SEWER COMP B BUFFALO, NY Soil 76% Result Qualifier	Not Specified L2166037-03 STORM SEWER MODIFI COMP B BUFFALO, NY Soil 76% Result Qualifier Units	SAMPL L2166037-03 STORM SEWER MODIFICATION COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL	Not Specified SAMPLE RES L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL MDL	Not Specified SAMPLE RESULTS L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL MDL Dilution Factor	Not Specified Report SAMPLE RESULTS L2166037-03 Date Co STORM SEWER MODIFICATION SOIL Date Re COMP B Field Pr BUFFALO, NY Dilution Soil 76% Result Qualifier Units RL MDL Factor	Not Specified Report Date: SAMPLE RESULTS L2166037-03 Date Collected: STORM SEWER MODIFICATION SOIL Date Received: COMP B Field Prep: BUFFALO, NY Date Soil 76% Result Qualifier Units RL MDL	Not Specified Report Date: 12/16/2 SAMPLE RESULTS Date Collected: 12/02/21 L2166037-03 Date Collected: 12/02/21 STORM SEWER MODIFICATION SOIL Date Received: 12/02/21 COMP B Field Prep: Not Specified BUFFALO, NY Dilution Date Date Soil 76% Dilution Date Date Result Qualifier Units RL MDL Mathematical Mathematical	Not Specified Report Date: 12/16/21 SAMPLE RESULTS Date Collected: 12/02/21 10:10 L2166037-03 Date Collected: 12/02/21 10:10 STORM SEWER MODIFICATION SOIL Date Received: 12/02/21 COMP B Field Prep: Not Specified BUFFALO, NY Dilution Date Date Prep Analytical Result Qualifier Units RL MDL Prepared Analyzed Method



INORGANICS & MISCELLANEOUS



Serial	No:12162116:46
oonal_	

Project Name: Project Number:	SOIL SAMP Not Specifie		C 2021						L2166037 12/16/21	
				SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-0 ASPHALT S BUFFALO, I	OIL REM	OVAL					Received:	12/02/21 10:00 12/02/21 Not Specified	I
Sample Depth: Matrix:	Soil					Dilution	Date	Data	Analysiaal	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Analytical Method	Analys
eneral Chemistry - We	stborough Lat)								
lids, Total	76.5		%	0.100	NA	1	-	12/07/21 07:58	8 121,2540G	RI



Serial No:12162116:46

Project Name: Project Number:	SOIL SAMP		C 2021					lumber: rt Date:	L2166037 12/16/21	
	-		:	SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-02 STORM SE\ BUFFALO, N	VER MO	DIFICAT	ION SOIL	COMP	A	2 0.10	Collected: Received: Prep:	12/02/21 10:05 12/02/21 Not Specified	;
Sample Depth: Matrix:	Soil					Dilution	Date	Date	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analys
eneral Chemistry - Wes	stborough Lab)								
lids, Total	77.5		%	0.100	NA	1	-	12/07/21 07:5	58 121,2540G	RI



Serial No:12162116:46

Project Name: Project Number:	SOIL SAMP		C 2021					lumber: rt Date:	L2166037 12/16/21	
				SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-03 STORM SEV BUFFALO, N	VER MO	DIFICAT	ION SOIL	COMP	В		Collected: Received: Prep:	12/02/21 10:10 12/02/21 Not Specified)
Sample Depth: Matrix: Parameter	Soil Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analys
neral Chemistry - Wes	stborough Lab)								
lids, Total	76.2		%	0.100	NA	1	-	12/07/21 07:	58 121,2540G	RI



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Info	Container Information			Final	Temp			Frozen	
Container ID	Container Type	Cooler	Initial pH	рН		Pres	Seal	Date/Time	Analysis(*)
L2166037-01A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-01B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-01C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-01D	Glass 500ml/16oz unpreserved	А	NA		3.0	Y	Absent		-
L2166037-01S	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-01T	Vial unpreserved Extracts	А	NA		3.0	Υ	Absent		TCLP-VOA(14)
L2166037-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG- C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG- CI(180)
L2166037-01X9	Tumble Vessel	А	NA		3.0	Y	Absent		-
L2166037-02A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-02B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-02C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-02D	Glass 500ml/16oz unpreserved	А	NA		3.0	Y	Absent		-
L2166037-02S	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-02T	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-02X	Plastic 120ml HNO3 preserved Extracts	А	NA		3.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG- C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG- CI(180)
L2166037-02X9	Tumble Vessel	А	NA		3.0	Y	Absent		-
L2166037-03A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-03B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-03C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-03D	Glass 500ml/16oz unpreserved	А	NA		3.0	Y	Absent		-
L2166037-03S	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

Serial_No:12162116:46 *Lab Number:* L2166037 *Report Date:* 12/16/21

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2166037-03T	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG- C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG- CI(180)
L2166037-03X9	Tumble Vessel	А	NA		3.0	Y	Absent		-



ALPHA

Project Name: SOIL SAMPLING DEC 2021

Project Number: Not Specified

Lab Number: L2166037

Report Date: 12/16/21

GLOSSARY

Acronyms

•	
DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report - No QC



Project Name: SOIL SAMPLING DEC 2021

Project Number: Not Specified

Lab Number: L2166037

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Footnotes

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- The r

reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- н - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- Μ - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND - Not detected at the reporting limit (RL) for the sample.
- NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report - No QC



Project Name: SOIL SAMPLING DEC 2021

Project Number: Not Specified

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Data Qualifiers

the identification is based on a mass spectral library search.

- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report - No QC



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

 Lab Number:
 L2166037

 Report Date:
 12/16/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane Toxanbene Aldrin alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

	PHA	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitne Albany, NY 12205: 14 Walker Tonawanda, NY 14160: 275 C	Way	105	Pag	e 1 of 1			Rec'	ď	12	3/21		ALPHA Job # LZI 66037	
	gh, MA 01581 Ikup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information					Del	verabl	- C		-			Billing Information	
	3-898-9220 3-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	Soil Sampli	ng Dec 2021	_		10	ASP				ASP-B		Same as Client Info	
0.0			Project Location:	Buffalo, NY						IS (1)	File)		EQuis	(4 File)	PO# A000827491	
Client In	formation		Project #		_			E	10.14	-			_			
Client:	Honeywell		(Use Project name as P	Project #)				Reg	ulator	Requ	uireme	nl			Disposal Site Information	
Address:	20 Peabod	ly Street	Project Manager:	Matthew Ka	ndefer				NYT	OGS			NY Par	1 375	Please identify below location of	1
Buffalo, NY	14120		ALPHAQuote #:	1.00					AWO	Stand	lards		NY CP.	-51	applicable disposal facilities.	
Phone:	716-471-3	158	Turn-Around Time						NYF	lestricte	ed Use		Other		Disposal Facility;	
Fax:	716-827-62	221	Standar	4 2	Due Date	e:			NYL	Inrestri	cted Us	e			VN INY	
Email:	Matthew.K	andefer@honeywell.co	Rush (only if pre approved	d) 🗌	# of Days	s;			NYC	Sewer	Discha	rge			Other:	
These sam	ples have b	een previously analyze	d by Alpha					AN/	ALYSI	S					Sample Filtration	a la
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							-	12	5	P	Total		11		(Please Specify below)	
ALPHA	Lab ID	Ca	male ID	Col	lection	Sample	Sampler's	1	1	11.	1					1.6
(Lab Us	se Only)	58	mple ID	Date	Time	Matrix	Initials		1.1	100	1				Sample Specific Comments	0
4603	7-01	Asphalt soil removal		12/2/2021	10:00	Soil	TW	x	X	x	x					4
	-02	Storm Sewer Modifica	ation Soll Comp A	12/2/2021	10:05	Soil	AF	x	x	x	x		1	1.1		4
	03	Storm Sewer Modifica	ation Soil Comp B	12/2/2021	10:10	Soil	ES	x	x	x	×					4
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Preservative	Code:	Container Code	All of the second													1
A = None B = HCl		P = Plastic A = Amber Glass	Westboro: Certification I Mansfield: Certification I	0.0000000000000000000000000000000000000		Co	ntainer Type	G	G	G	Р				Please print clearly, legit and completely. Samples	
$C = HNO_3$ $D = H_2SO_4$ E = NaOH		V = Vial G = Glass B = Bacteria Cup				≥ 2	Preservative	A	A	A	A				not be logged in and turnaround time clock will	ill not
F = MeOH		C = Cube O = Olher	Relinquished	By:	Date	/Time		Rece	ived E	y:			Date/	Time	start until any ambiguities resolved. BY EXECUTIN	
$G = NaHSO_4$ $H = Na_2S_2O_3$ K/E = Zn Ac/N O = Other		E = Encore D = BOD Bottle		AAL	1× 12-2-2	1/1040		6	2	_	-	12/	3/21	0100	THIS COC, THE CLIENT HAS READ AND AGREE TO BE BOUND BY ALP	t Es Ha's
Form No: 01-2	25 (rev. 30-Sej	pt-2013)						-	_	-	_				TERMS & CONDITIONS	+

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		OCUMENT	NYD000632315	- i	(877+818-0087			0348	44	8	
	5.0	Generator's Name and Mailin	g Address MATTHEW KANDEFER		Generator's Site Address (if different that	n mailing addres	s)				
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		NUFFALO, NY 14210 nerator's Phone:	716 827-6318	- 1							
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	7.1	Transporter 2 Company Name	e Anno Anno Anno Anno Anno Anno Anno Ann			U.S. EPAID N	umber	_/ ()			
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	8.0	Designated Facility Name and	d Site Address			U.S. EPA ID N	umber				
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			CHAFFEE.NY 14030-9799			N O 1	r p	R (A)	0	0 X	
		cility's Phone: 716 49				-		EQ	0	9 5	
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		0087; CONTRAC	TED BY VESTS); + 1) W:327213 A:CIN327	213 VESI	H132; **(ESBMATED WEIGI	(TUSED)				3	
	15.	GENERATOR S/OFFERO	R S CERTIFICATION: I hereby declare that the contents of this	consignment a	are fully and accurately described above b	y the proper ship	ping name	and are classif	ied packar	ed	
		marked and labeled/placard	ded, and are in all respects in proper condition for transport acc	ording to applic	able international and national government	ntal regulations.					
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	18c	Signature of Alternate Facili	ty (or Generator)					Month	Day	Year	
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1		MALL	ARE TRUCKIN			9A-738								
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	8. De	signated Facility Name and	d Site Address WM OF NEW YORK, LLC					U.S. EPA ID N	umber					
			10960 OLEAN ROAD CHAFFEE NY 14030 9799											
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	9a.	9b. U.S. DOT Descriptio and Packing Group (if a	on (including Proper Shipping Name, Hazard Class, ID Number,		-	10. Contain		11. Total	12 Unit	13. Co	des			
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		0087; CONTRAC	TED BY VESTS); + 1) W-327213 A-CIN327	213 VBSI	;H132;*	*(ESTIMAT	ED WRIG	HT USED)						
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	15.	GENERATOR S/OFFEROI	R S CERTIFICATION. I hereby declare that the contents of this ded, and are in all respects in proper condition for transport according to the second s	consignment	are fully and	d accurately des	cribed above	by the proper ship	ping name	and are classi	fied, packa	iged,		
		marked and appropriate	dou, and are in an respects in proper contract for mensport acco	vicing to apply	cable intern		niai guvernine	mai regulations.						
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TEC	18c. 1	Signature of Alternate Facili	ity (or Generator)							Mont	h Day	Year		
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Î		SHIPPING DOCUMENT	1. Generator ID N NYD 0	lumber 0 0 6 3 2 3 1 5	2. Page 1 of	3. Emergency Response (877) 818-0087		4. Shipping		racking Number 0348		
	1	HONEYWELL INTER 20 PEABODY STREE BUFFALO, NY 1421	NATIONAL, I			Generator's Site Address	(if different tha	an mailing addres				
		enerator's Phone: Transporter 1 Company Nam	Ð	E TRILCK	NC			U.S. EPA ID N	lumber	120		
	7.	Transporter 2 Company Nam	e e	F. IRIELA	NO			U.S. EPA ID N	lumber	20	1.312	
	8.	Designated Facility Name and	16	M OF NEW YORK, LLC 1860 OLEAN ROAD			.k					
	Fa	cility's Phone: 716 49	6-3420	HAFFEE, NY 14036-9799				NOT	ŕ R	ΕQ	0.9	5
	9a Hi	M and Packing Group (if a	ny))	er Shipping Name, Hazard Class, ID N		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Code	96	
GENERATOR -		SOIL WITH TI	RACE ARSEN	RIAL PER 40 & 49 CFR. (N NC, BARIUM; HELOW (ALPHA# L2166037; 12/10		×.	рт	2.0	т	L		
- GENE		2.										
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	14	Special Handling Instructions	s and Additional Info	formation **(VES TON. FTS); -+ 1) W:327213 A.CI	NYZ); (NEED	C.O.D'S), **(EMB)	LOENCY I	CESPONSE (1-877-8	18-		
	15, Ge	GENERATOR S/OFFERO marked and labeled/placar	ded, and are in all r	ON: I hereby declare that the content respects in proper condition for transp	ort according to application	are fully and accurately des able international and national	cribed above anal governme	by the proper ship intal regulations.	oping name,	and are classifie	d, package Day	d, Year
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INT'L	16.	International Shipments	Import to	o U.S.	Export from U.	.S. Port of ent Date leaver						_
E	17.	Transporter Acknowledgment	of Receipt of Shipn	ment							- Con	
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IGNA'	19.	Report Management Method	Codes (i.e., codes	for treatment, disposal, and recycling	systems)							_
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		DOCUMENT	NYD000632315					Z			
		5. Generator's Name and Mailin HONEYWELL INTER	ng Address MATTHEW KANDEFER		Generator's Site Address SAME	(if different th	an mailing addre	ss)		_	
		20 PEABODY STREE	T.		country (2						
		BUFFALO, NY 1421(0 716 827-6318		1						
		Generator's Phone: 5. Transporter 1 Company Nam	18				U.S. EPA ID,	humber			
		MAL	LARE TRUCK	ING			0.0. CFAID,	A - 7	722		
		7. Transporter 2 Company Name	ne				U.S. EPA ID I		46		
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	8	Designated Facility Name and	d Site Address WM OF NEW YORK, LLC				U.S. EPA ID I	Number	_		
			10860 ÖLEAN ROAD CHAFFEE, NY 14030-9709								
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			on (including Proper Shipping Name, Hazard Class, ID Numt		10.0				15 - SC		7 .7
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	2	1. NON-RECIULA	ATED MATERIAL PER 40 & 49 CFR, (NO	N HAZ		- ipc			NONE		
GENERATOR		REGULATOR	RACE ARSENE, BARIUM; BELOW IV LIMITS) **(ALPHA# L2166037; 12/16/2	n	2	рт					
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	6. Transporter 1 Company Name MALLARE FRICKING 7. Transporter 2 Company Name											
	7.1	<u>/.3%</u>										
	8. 0	Designated Facility Name and	Site Address WM OF NEW YORK, LLC 10860 OLEAN ROAD			U.S. EPA ID Number						
	Fac	ility's Phone: 716 49	CHAFFEE, NY 14030-9799 6-3420			NOT	REQ 095					
	9а. НМ	9b. U.S. DOT Descriptio	n (including Proper Shipping Name, Hazard Class, ID Number ny))	er,	10. Containers No. Type	11 Total 12 Un Quantity Wt./Vo	1.3 Lodes					
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	100	marked and labeled/placard erator's/Offeror's Printed/Typ		ecording to applic	re fully and accurately described above b able international and national governmen ature	y the proper shipping nar tal regulations.	ne, and are classified, packaged, Month Day Year					
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È	18b.	Alternate Facility (or General	lor		Shipping Document Tracking Numb	U.S. EPA ID Number						
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	20. C Print	Designated Facility Owner or ed/Typed Name	Operator: Certification of receipt of shipment except as noted	l in Item 18a Sign:	ature		Month Day Year					
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	5. G	enerator's Name and Mailin	g Address MAT	TTHEW KANDEFER			Generator's	ite Address	i (if different th	an mailing addres							
		ONEYWELL INTER PEABODY STREE		NC.			SAMF.										
		UFFALO, NY 1421															
	Gen	erator's Phone:	716 827-631	8													
6. Transporter 1 Company Name U.S. EPAID Number 94-7-																	
		MAL	LAK	E TRUC	SKI1	V.G				91	9A - 738						
	7.4	ansporter 2 Company Nam	8							U.S. EPA ID N	lumber						
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	8. D	esignated Facility Name an	d Site Address W	M OF NEW YORK, LLC	- 10	2			14.5	U.S. EPA ID N	lumber						
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				1991 1 10, 19 E 1992 97	27					• N 0 1	r a	47 (242)					
	Faci	lity's Phone: 716 45	76-3420							N 0 1	i K	EQ	0	9.5			
	9a_	9b. U.S. DOT Description and Packing Group (if a		r Shipping Name, Hazard Class, I	D Number			10. Contai	ners	11. Total	12. Unit	13. C	odes				
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	15.	GENERATOR S/OFFERO	R S CERTIFICATIO	ON: I hereby declare that the con-	tents of this of	onsignment a	are fully and a	curately de	scribed above	by the proper ship	pping name	and are class	ed packa	ged,			
		marked and labeled/placar	ded, and are in all r	respects in proper condition for tra	ansport accord	ding to applic	able internation	nal and nati	ional governm	ental regulations.							
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		DOCUMENT NYD000632315 I (877)818-0087			Z	ZZ 00348454			
Ш	5. Generator's Name and Mailing Address MATTHEW KANDEFFR Generator's Site Address (if different than mailing address)								
		HONEYWELL INFERNATIONAL, INC. SAME 20 PEABODY STREET BUFFALO, NY 14210							
	G	enerator's Phone: 716 827-6318				diam'r			
	б.	MALLARE TRUCKING			U.S. EPA ID N	U.S. EPA ID Number			
	7.	7. Transporter 2 Company Name				U.S. EPA ID Number			
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	8.	Designated Facility Name and Site Address WM OF NEW YORK, LLC 10860 OLEAN ROAD CHAFFEB, NY 14030-9799				U.S. EPA ID Number			
2	Fa	cline 165, 101 (405)-9799		NOT REQ 095					
	9a HI	M and Packing Group (if any))		10. Containers No. Ty	11. Total Quantity	12. Unit Wt/Vol.	13. Codes	13. Codes	
ľ		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (NON H SOU, WITH TRACE ARSENIC, BARRIM; BELOW	IAZ		100		NONE		
GENERATOR		REGULATORY LIMITS) **(ALPHA# 1.2166037; 12/16/21)		J D	T 2.0	T	I.		
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		Special Handling Instructions and Additional Information **(VES-TON_NY2)		C.O.D'S); **(EMERGE)				-	
	0087; CONTRACTED BY VESTS); + 1) W:327213 A:CIN327213 VES1;H132; **(ESTIMATED) WRIGHTUSRD) 15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged,								
		marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
	Ge	nerator's/Offeror's Printed/Typed Name	Sigr	nature			Month	Day Year	
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	18b. Alternate Facility (or Generator) U.S. EPA ID Number								
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	20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a								
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	5. G	enerator's Name and Mailin	g Address		f		Generator's S	ite Address	(if different that	in mailing addre	ISS)			
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Î	D	HIPPING OCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of	3. Emergency Res (877) 818-(•	4, Shipping		Tracking Numb		7
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	8.0	Designated Facility Name an	d Site Address WM OF NEW YORK, LLC 10860 OLEAN ROAD CHAFFEE, NY 14030-9799				U.S. EPA ID N	lumber			
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15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper si marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations									, and are clas	sified, packa	ged,
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TRANSPORTER INT'L		nsporter signature (for expor	ts only):		Date leavi	- 2					-
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► •	18.1	Discrepancy	10							_	
	18a.	Discrepancy Indication Spa	ce Quantity Type		Residue		Partial Reje	ction	[Full Reject	ction
Ľ	185	Alternate Facility (or Generation	atari		Shipping Documen	t Tracking Num	ber: U.S. EPA ID Ni	umbar			_
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DFA		lity's Phone:						_		II. Day	
AE	100.	Signature of Alternate Facil	ty (or Generator)						Mo	onth Day	Year
SIGN	19.1	Report Management Method	Codes (i.e., codes for treatment, disposal, and recycling system	ms)							
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	20.1	Designated Facility Owner o	Operator: Certification of receipt of shipment except as noted	in Item 18a		-					
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1			1. Generator ID Number	2. Page	e 1 of	3. Emergency Response	e Phone	4. Shipping	Document	Tracking Nur	nber	9
	5. Ge	enerator's Name and Maili	ng Address	Ford	(Senerator's Site Address	(if different that	an mailing addres	is)			
	Gene	erator's Phone:			1							
	6. Tra	ansporter 1 Company Nar	ne	RUCKING				U.S. EPAIDA	lumber	738	>	
	7. Tra	ansporter 2 Company Nan	n o					U.S. EPA ID N	lumber			
	8. De	signated Facility Name a	nd Site Address	ORUK, LILC			-	U.S. EPA ID N	umber	_		
			10860 OLPAN CHAFFEE, NY									
	Facili	de Obasa	9.04142.0					TNO				
	9a.	ity's Phone: 9b. U.S. DOT Descript	ion (including Proper Shipping Name, H	azard Class, ID Number,		10. Contai	ners	11. Total	12. Unit	-	21.0	_
	HM	and Packing Group (if	any))	1. 208 (2200) 202 WU 11 Stat		No.	Туре	Quantity	Wt./Vol.	13. (Codes	
No.		SOIL WITH T	LACE ARSENRE BARLING (Y LM(TS) ** (ALPHA) 121						1.000	100103	_	
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	14. S	pecial Handling Instruction	ns and Additional Information	ero establicative dati	1 1 2 4	- OLAVERALOVERALS		NUZE IN CALCUL		246.00		
		WHIT CONTRAC	TED BY VESTING + 1) W:			1132; **(ISTIMA)						
	15.	GENERATOR S/OFFER	R S CERTIFICATION: hereby declar	e that the contents of this consign	ment ar	e fully and accurately de	scribed above	by the proper shi	pping name	, and are clas	sified, packa	aed.
		marked and labeled/placa	rded, and are in all respects in proper o	ondition for transport according to	applica	ble international and nati	ional governme	ental regulations.		,		0
	Gene	rator's/Offeror's Printed/Ty	med Name		Signa	ture				Mon	ih Day	Year
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	18a. C	Discrepancy Indication Spa	ace Quantity	Туре		Residue		Partial Reje	ction		Full Rejec	tion:
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È	18b. A	Alternate Facility (or Gener	ator)			Shipping Documen	Tracking Nun	U.S. EPA ID N	umber			
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		y's Phone: Signature of Atternate Facil	lity (or Generator)							Mor	nth Day	Year
DESIGNATED FACILITY												
ESIG	19. Re	eport Management Methor	Codes (i.e., codes for treatment, dispo	sal, and recycling systems)	3.			14				
	-		2		5.			4.				
			r Operator: Certification of receipt of sh	ipment except as noted in Item 18				1				
	Printe	d/Typed Name			Signa	iture				Mon	th Day	Year
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T.	SH	IIPPING	1. Generator ID Number	3. Emergency Response Phone	4. Shipping	Document	Tracking Number		
		CUMENT	NYD000632315	1	(877) 818-0087	1 Z	Ζ0	03484	468 I
	5. G	enerator's Name and Mailir			Generator's Site Address (if different	than mailing addres	is)		
	-20	ONEY WELL INTER PEABODY STREE OFFALLO, NY - 1423	RNATIONAL INC.		SAME				
	Gen	erator's Phone:	716 827-6318						
	1.00	ansporter 1 Company Nam				U.S. EPA ID N		20	
	7.7	MALLAKE ansporter 2 Company Nam	Trucking				- 7	56	
	1.11	ansponer z Company Nam	HC J			U.S. EPA ID N	lumber		
	8 D	esignated Facility Name an	d Site Address				lund an		
	0.01	esignated nacing marile an	SS S WRIDE NEW TORK, LEG			U.S. EPA ID N	lumber		
			10869 OLEAN ROAD CHAFFEE, NY 14030-9799						
4	Facil	716 d	96+3420			NO	T R	E Q	0 9 5
	1	or none.	on (including Proper Shipping Name, Hazard Class, ID Nur	whee	40 Contribution		-		<u></u>
	9a. HM	and Packing Group (if a		nder,	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Code	s
		1. NON-REGUI	ATED MATERIAL PER 40 & 49 CFR, (NO	ON HAZ	110. 1100			NONE	
No.		SOB. WITH T	RACE ARSENIC, BARJUM, BELOW				~		
RAI		REGULATO	RY LIMITS) **(ALPHA# L2166037; 12/16	21)	I D T	2.0	Т.	E.	
GENERATOR		2.					-		
ß							g 8		
		3.							
		10C)							
	-	4.							
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	14. 5	pecial Handling Instruction	s and Additional Information **(VESTON, J TED BY VESTS), +1) W 32721 A CIN	NY2), °(NELD	C.O.D'SI; **(EMERGENC)	RESPONSE	#1-877-	818	
		marked and labeled/placar	R S CERTIFICATION: I hereby declare that the contents of ded, and are in all respects in proper condition for transport	rt according to applic	able international and national govern		pping name	and are classified	, packaged,
8		erator's/Offeror's Printed/Ty		Sig	nature			Month	Day Year
ŧ	1	MAMARIA	Kandole, G. Hannell		14/0/1/c-			1	22 32
Ľ	16. I r	ternational Shipments	Import to U.S.	Export from U	I.S. Port of entry/exit				
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S S				Sign	nature	5		Month	Day Year
P	Trans	sporter 2 Printed/Typed Nar	Leeus	Sig	nature	_><		Month	Day Year
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	168.	Discrepancy Indication Spa	ace Quantity Type	•	Residue	Partial Reje	ction	L Fi	Il Rejection
۲	18b.	Alternate Facility (or Generation	atori		Shipping Document Tracking N	U.S. EPA ID N	umber		
							unibo		
R	Encili	ty's Phone:				1 8			
		Signature of Alternate Facil	ity (or Generator)					Month	Day Year
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DESIGNATED FACILITY	19. R	eport Management Method	Codes (i.e., codes for treatment, disposal, and recycling s	systems)					
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7									
	20. D	esignated Facility Owner o	Poperator: Certification of receipt of shipment except as no	oted in Item 18a					11.112.17
		ed/Typed Name			nature			Month	Day Year
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Î	DO	IPPING CUMENT	1. Generator ID Number N Y D 0 0 0 6 3 2 3 1 5	2. Page 1 of	3. Emergency Response Phone (877) 818-0087	4. Shipping D		racking Numb		9
	H	DNEY WELL IN TER			Generator's Site Address (if different to SAME	nan mailing address)			
		PEABODY STREE JEFALO, NY 1421	0							
	6. Tra	erator's Phone: ansporter 1 Company Nam	716 %27-6318	<u>.</u>		U.S. EPA ID Nu		-		_
		MALLAR (ansporter 2 Company Nam				U.S. EPA ID Nu		K.		
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	0, D6	signateu raciity wanie an	d Site Address WM OF NEW YORK, LLC 14860 OLEAN ROAD CHAFFEE, NY 14030-9799			U.S. EPA ID Nu	imber			
	Facil	ty's Phone: 716 46	96-3420			NOI	R	E Q	0	9.5
	9a HM	and Packing Group (if a			10. Containers No. Type		12. Unit Wt./Vol.	13. Co	odes	
OR -		SOIL WITH T	ATED MATERIAL PER 40 & 49 CFR, (NON RACE ARSENIC, BARIUM, BELOW					NONE		
GENERATOR			RY LIMITS) **(ALPHA# L2166037; 12/16/21	<u>)</u>	1 D T	2.0	- P.	E.		
GEN		2.								
		3.		_		1		_		
		4.								
	14_S	pecial Handling Instruction 00x7; CONTRAC	s and Additional Information	(2), "(GEEL) (72) 3 VEST	H132; **(EME RGENCY	RESPONSE # ONVUSED)	1-8/1-1-8	518-		
								i.		
	15.	GENERATOR S/OFFERO	R S CERTIFICATION: I hereby declare that the contents of the	nis consignment :	are fully and accurately described above	by the proper ships	oing name.	and are classi	fied, packad	ned
			ded, and are in all respects in proper condition for transport a							
		rator's/Offeror's Printed/Typ		Sig	nature			Month	Day	Year
+		ternational Shipments	Konderra (ne sharanda la		7. 4. 6		14	/	N	00
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RTEF		ansporter Acknowledgment porter 1 Printed/Typed Nan	ne	Sig	nature and the C	ew		Month	Day	Year
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1		screpancy Discrepancy Indication Spa	ce Quantity Type		Residue	Partial Reject	tion.		Full Rejec	
			Canal Goldmory Canal Type				uon	L	J FUII Kejec	aon
È	18b. A	Itemate Facility (or Genera	alor)		Shipping Document Tracking Nu	U.S. EPA ID Nur	mber			
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DESIGNATED FACILITY	18c. S	Signature of Alternate Facili	ity (or Generator)					Mont	h Day	Year
SIGN	19. Re	eport Management Method	Codes (i.e., codes for treatment, disposal, and recycling system			_				
ī	12		2.	3.		4_				
		esignated Facility Owner or d/Typed Name	r Operator: Certification of receipt of shipment except as noted		nature			Month	Day	Year
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1	DO	IPPING 1. Generator ID Number CUMENT N Y D 0 0 0	632315	of 3. Emergency Response Phone (\$77) \$13-0087	4. Shipping Document Tra	1348470
	- HC - 20	nerator's Name and Mailing Address MALLINE INFLYWELL INTERNATIONAL, INC. PEABODY STREET FFALO, NY 14210	W KANDEFER	Generator's Site Address (if different th	an mailing address)	
		rator's Phone: 716 827-5318 Insporter 1 Company Name MALLARE Trur	Kina		U.S. EPA ID Number	2
		insporter 2 Company Name signated Facility Name and Site Address WM OF	5		U.S. EPA ID Number	
		10860 (CHAFF 716 - 496 3420)LEAN ROAD P.E. NY 14030-9799		NOT R	EQ 095
	Pacilit 9a. HM	9b. U.S. DOT Description (including Proper Shippin and Packing Group (if any))		10, Containers No. Type	11. Total 12. Unit Quantity WL/Vol.	13. Codes
GENERATOR -		1. NON-REGULATED RATERIAL SOIL WITH TRACE ARSENIC, R REGULATORY LIMITS, **(ALP)	ARIUM; BELOW	1 D T	20 T -	1. 1.
CEN		2				
		3.				
		4.				
	14. Sp	pecial Handling Instructions and Additional Information 9087; CONTRACTED BY VESTS);		ED CODES; **(EMERGENER 81;H132; **(ESTIMATED WER		ν <u>γ</u>
	15. C	GENERATOR S/OFFEROR S CERTIFICATION: I he marked and labeled/placarded, and are in all respects	reby declare that the contents of this consignme in proper condition for transport according to ap	ent are fully and accurately described above oplicable international and national governm	by the proper shipping name, an ental regulations.	nd are classified, packaged,
		ator's: Olleror's Printed/Typed Name		Signature		Month Day Year
INT'L -	16 Int	ternational Shipments Import to U.S.	Export from			1 75 00
	17. Tra	porter signature (for exports only): ansporter Acknowledgment of Receipt of Shipment		Date leaving U.S.		
TRANSPORTER	N	porter 1 Printed/Typed Name	1210	Signature		Month Day Year Month Day Year-
¥ ₩	18. Dis	screpancy				
	18a. D	Discrepancy Indication Space Quantity	Туре	Residue	Partial Rejection	Full Rejection
Ę	18b. A	Iternate Facility (or Generator)		Shipping Document Tracking Nur	U.S. EPA D Number	
FACI	Facility	s Phone			1	
DESIGNATED FACILITY	18c. S	ignature of Alternate Facility (or Generator)			240	Month Day Year
SIGN		eport Management Method Codes (i.e., codes for treat				
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		signated Facility Owner or Operator: Certification of re d/Typed Name		Signature		Month Day Year
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Î	D	DCUMENT	Generator ID Number NYD0063	and a state of the second s	2, Page 1 of	3. Emergency Respo (877) 818-04		4. Shipping		0348		1
	14 24	ienerator's Name and Mailing A ONEYWELL, INTERN, D PEABODY STREET UFFALO, NY 14210	A'ODNAL INC	NDEFER		Generator's Site Addr	ess (if different tha	an mailing addres	s)			
		ransporter 1 Company Name	6 827-6318		1421-8							
		MALLARE	Trucky	19				U.S. EPAID N	-73	8		
	7. T	ransporter 2 Company Name		5				U.S. EPA ID N				10
	8 D	esignated Facility Name and Si	te Address WM (22 N)(V	VOR II.				U.S. EPA ID N	umbor			_
			I ÛR60 OLEA					0.0.017101				
	Fac	lity's Phone: 716 496-	3420					NO	T R	ΕQ	0	9 5
	9a, HM	and Packing Group (if any)			6	10. Co No.	ntainers Type	11. Total Quantity	12. Unit Wt_/Vol.	13. Co	les	
TOR -		SOIL WITH TRA	LED MATERIAL PER- ACE ARSENIC, HARH LIMPTS) **(ALPHA#)	M; BFLOW			DT	2.0	Ŧ	MUMB		
GENERATOR		2	anatarang ganaganang	alloopting the routing	594	_						_
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		3.	N. 16 12	. c							Í	
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	14. 3	Special Handling Instructions an	Additional Information	W 122511 A CIN122), 'OBEL	C.O.D.D., (EA	ALINIA WIRI	RESPONSE	# 10037-	019.		
		COMPANY CREATING FI	ne for a point of 1. Fi	******	ALT C LETALES	arrier (assum		ITT OGGD?				
	15.	GENERATOR S/OFFEROR S							oping name	and are classifi	ed, packag	jed,
			, and are in all respects in prop	er condition for transport acco	ording to applic	able international and	national governme	ental regulations.				
ļ	Gen	erator's/Offeror's Printed/Typed MATTHEW KG	Name Indofer to-	Honoy Will	Sig	MALLE				Month /	Day	Year
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TER		Transporter Acknowledgment of I sporter 1 Printed/Typed Name	Receipt of Shipment		Sign	nature		~ 7		Hanfi	Davi	Vear
POR	2	CAA	LeeD							Month	Day	Year
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⊢	18. 0	Discrepancy									1 co	2.4
	18a.	Discrepancy Indication Space	Quantity	Туре		Residue		Partial Reje	ction		Full Reject	tion
∣ ≻	18b	Alternate Facility (or Generator				Shipping Docum	nent Tracking Num	iber: U.S. EPA ID Ni	umbor			-
DESIGNATED FACILITY	100	rationate racing for estimation,	,					C.O. CFAID IN				
DFA		ity's Phone: Signature of Alternate Facility (ar Concenter)							Month	Day	View
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ESIG	and the second second	Report Management Method Co	des (i.e., codes for treatment, o	lisposal, and recycling system						-	-	
ð	1.		2.		3.			4.				
		Designated Facility Owner or Op	perator: Certification of receipt of	f shipment except as noted in					17 V.	ä		
	Print	ed/Typed Name		1994 - Carlos Angeles and A	Sigi	nature				Month	Day	Year
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GENERATOR / SHIPPER'S INITIAL COPY

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+	SI	IIPPING	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Shipping (Tracking Numb		0
		DCUMENT	NYD000632315	1	(877) 818-0087			ΖÜ	0348	34 ()	2
	5. G	enerator's Name and Mailin	g Address MATTHEW KANDEFER		Generator's Site Address	il diferent than	mailing address	s)			
	2	ONEYWELL INTER D PEABODY STREE UFFALO, NY 1421	2T		SAME:						
		erator's Phone: ransporter 1 Company Nam	716 827-6318				110 604004				_
	0.1	ransporter i company marri	1	15			U.S. EPA ID N		0.01		
	7.7	/ ransporter 2 Company Nam	MALLARE PUCK-1	Hla_				- 7.	38		
	6.1	ransponer z Company Nam	e				U.S. EPAID N	umber			
	_						1			12	
	8. D	esignated Facility Name and	d Site Address WM OF NEW YORK, LLC				U.S. EPA ID N	umber			
			10860 OLEAN ROAD								
			CHAFFEE NY 14030 9799								
	Faci	ility's Phone: 716 4	96-3420				NO	7 20	C.E.Q.		9 5
	9a.		on (including Proper Shipping Name, Hazard Class, ID Number,		10. Contain	ers	11. Total	12. Unit	13. Co	des	
	НМ	and Packing Group (if a			No.	Туре	Quantity	Wt./Vol.			
æ			ATED MATERIAL PER 40 & 49 CFR. (NON) RACE ARSENIC, BARIUM, BELOW	HAZ					NONE		
GENERATOR			RY LIMITS) **(ALPHA# 1,2166037, 12/16/21)			D.T.	2.0	- R	E		-
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	14,	Special Handling Instruction	s and Additional Information •• VES-TON, NY	(NEED	C.O.D'S); **(EMER	GENCY R	ESPONSE	#1-877	-818-	1.00	
		9087; CONTRAC	TED BY VESTS); 4-1) W327213 A CE327	213 VESI;	H132; **(ESTIMAT	ED WEIGH	TT USED)				
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	15.	GENERATOR S/OFFERO	R S CERTIFICATION: I hereby declare that the contents of this	consignment a	are fully and accurately des	cribed above by	y the proper ship	oping name	, and are classi	lied, packaç	ged.
		marked and labeled/placar	ded, and are in all respects in proper condition for transport acc	ording to applic	cable international and natio	onal governmen	ital regulations.				
							12520.03				
		erator's/Offeror's Printed/Ty		Sig	inature //				Month	Day	Year
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1		Discrepancy									
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E	180.	Alternate Facility (or Generation	ator)				U.S. EPA ID N	umber			
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ESI	_	Report Management Method	Codes (i.e., codes for treatment, disposal, and recycling system				-	_			
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	E HUI	оч турот маше		Sig	nature				Month	n Day	Year
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1	DC	IIPPING CUMENT	1. Generator ID Number NYD 0 0 0 6 3 2 3 1 5	2. Page 1 of	3. Emergency Response Phone	4. Shipping Docum	ent Tracking Number
	- H 20	enerator's Name and Mailir ONEYWELL INTER PEABODY STREF UFFALO, NY 1421			Generator's Site Address (if different tha SAME	n mailing address)	
		erator's Phone: ansporter 1 Company Nam	716 827-6318			U.S. EPA ID Number	
			APE TRUCK				73.0
	7. Tr	ansporter 2 Company Nam	e		· · · · ·	U.S. EPA ID Number	
	8. D	esignated Facility Name an	d Site Address WM OF NEW YORK, LLC			U.S. EPA ID Number	
			10860 OLEAN ROAD CHAFFEE, NY 14030-970	19			
	Faci	ity's Phone:	96-3420			NOT	REQ 095
	9a. HM	9b. U.S. DOT Description and Packing Group (if a	on (including Proper Shipping Name, Hazard Class, ID any))	Number,	10. Containers No. Type	11. Total 12. U Quantity Wt.A	
GENERATOR		SOIL WITH T	ATED MATERIAL PER 40 & 49 CFR, RACE ARSENIC, BARNUM; BELOW VY LIMITS) **(ALPHA# 1.2166037; 12/				H
- GENE		2.					
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	14.8	Special Handling Instruction	s and Additional Information	,1 21 LFD	D ME OF CEL	R.SP F 1	8
 GENERATOR S/OFFEROR S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packag marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. 							
8	Gene	arator's Offeror's Printed Ty	ped Name (*	Sign	nature / / /		Month Day Year
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E E E	17. T	sporter signature (for expo ransporter Acknowledgmen	t of Receipt of Shipment		Date leaving U.S.:		
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≿	18b.	Alternate Facility (or Gener	ator)	101	Shipping Document Tracking Num	ber: U.S. EPA ID Number	
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DFA		ity's Phone: Signature of Alternate Facil	ity (or Generator)				Month Day Year
NATE							
SIG	19. F	Report Management Methor	I Codes (i.e., codes for treatment, disposal, and recyc				
ä	1.0		2	3.		4.	
			r Operator: Certification of receipt of shipment except	as noted in Item 18a			
	Print	ed/Typed Name		Sign	nature		Month Day Year
*							

Appendix F - Site Soil Disturbance Events Documentation – Asphalt and concrete improvements



ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com

1/22/2022

Mr. Joshua Vaccaro NYS Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203-2915

Re: Site Management Plan – Asphalt/Concrete Improvements NYSDEC Site Number 915002

Dear Mr. Vaccaro:

Honeywell completed asphalt and concrete improvements at the site in 2021. The area of excavation/improvement was partially in Area #1 as defined in the Site Management Plan. Area #1, in the Site Management Plan, has had arsenic concentrations from 48.7 to 224 mg/kg. See attached map for approximate locations of the asphalt improvements.

Occhino Corp is the contractor that performed the following scope of work for the asphalt installation:

3 Areas: 1600SF, 860SF and 2400SF Excavate to allow for the following: 10" #2 Crushed Limestone compacted to a minimum density of 95% Place and compact 3" Type 3 Dense Binder NYSDOT series 80 compaction specs Place and compact 1 ½" Type 7 Top NYSDOT series 80 compaction specs

Area Approximate 400SF Saw cut Excavate existing asphalt Place 2" Type 3 Dense Binder NYSDOT series 80 compaction specs Place 1 ½" Type 7 Top NYSDOT series 80 compaction specs

Replace 30x30x3 ½ drainage inlet with new precast from <u>Kistner</u> Concrete Products Saw cut, excavate, reattach existing pipping, backfill with select limestone compacted to 95% min. Pour concrete collar 8" in depth with 4500psi concrete Seal with cure

Area 6x15 Excavate Place necessary stone up to 8" Place 6" 4500 psi concrete with mesh broom finish Seal with cure

All soil was excavated and staged for sampling and disposal. Soil was staged on poly sheeting and covered with poly sheeting until the sample results are received. The stone backfill for all excavations

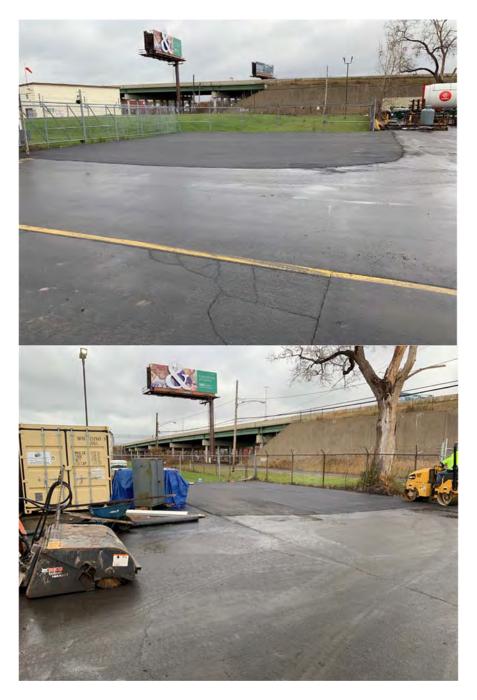


ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com

was obtained from Occhino Corp from New Enterprise Stone and Gravel – Werhle Drive Location. The soil disposal was handled through Veolia to an approved landfill (Waste Management -Chaffee).

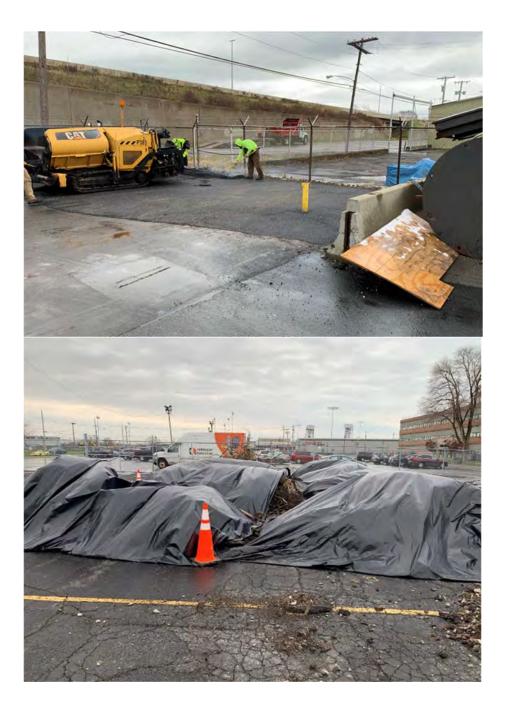
Photos, laboratory analysis and waste manifests are attached.

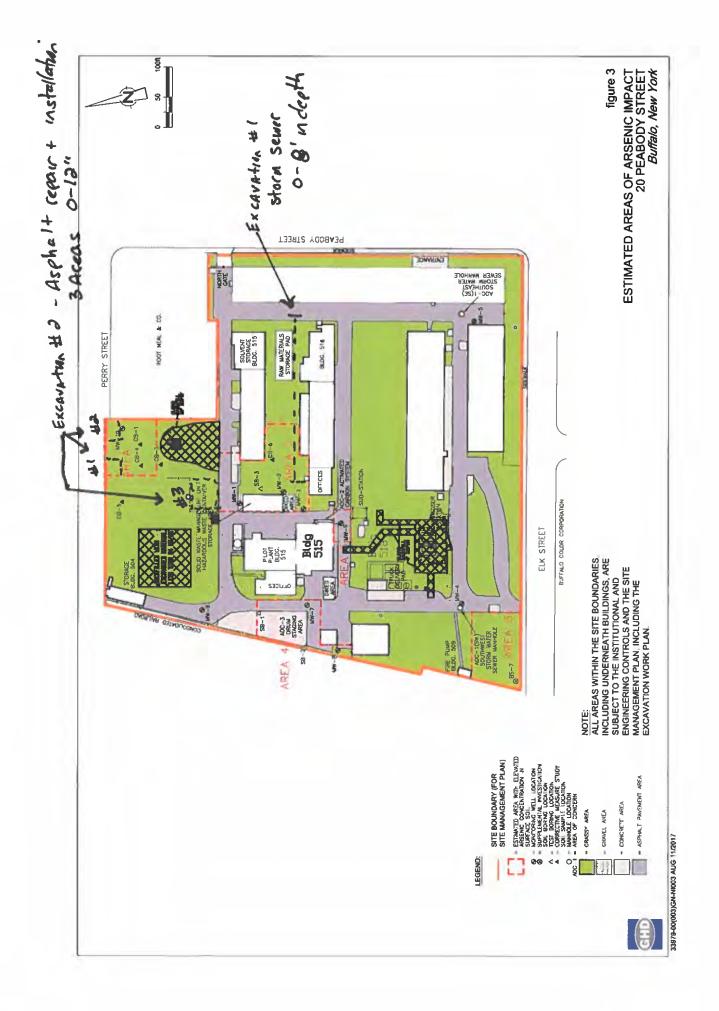
Photos:





ADVANCED MATERIALS 20 Peabody Street Buffalo, NY 14210 www.honeywell.com







ANALYTICAL REPORT

Lab Number:	L2166037
Client:	Honeywell
	20 Peabody Street
	Buffalo, NY 14120
ATTN:	Matthew Kandefer
Phone:	(716) 827-6318
Project Name:	SOIL SAMPLING DEC 2021
Project Number:	Not Specified
Report Date:	12/16/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

 Lab Number:
 L2166037

 Report Date:
 12/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2166037-01	ASPHALT SOIL REMOVAL	SOIL	BUFFALO, NY	12/02/21 10:00	12/02/21
L2166037-02	STORM SEWER MODIFICATION SOIL COMP A	SOIL	BUFFALO, NY	12/02/21 10:05	12/02/21
L2166037-03	STORM SEWER MODIFICATION SOIL COMP B	SOIL	BUFFALO, NY	12/02/21 10:10	12/02/21



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

Lab Number: L2166037 Report Date: 12/16/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name: SOIL SAMPLING DEC 2021 Project Number: Not Specified Lab Number: L2166037 Report Date: 12/16/21

Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

Total Metals

The WG1581706-3 MS recovery for arsenic (145%), performed on L2166037-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1581706-4 Laboratory Duplicate RPD for arsenic (93%), performed on L2166037-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/16/21



VOLATILES



		Serial_No	0:12162116:46			
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037			
Project Number:	Not Specified	Report Date:	12/16/21			
	SAMPLE RESULTS					
Lab ID:	L2166037-01	Date Collected:	12/02/21 10:00			
Client ID:	ASPHALT SOIL REMOVAL	Date Received:	12/02/21			
Sample Location:	BUFFALO, NY	Field Prep:	Not Specified			
Sample Depth:						
Matrix:	Soil					
Analytical Method:	1,8260C					
Analytical Date:	12/07/21 20:23					
Analyst:	NLK					
Percent Solids:	77%					
TCLP/SPLP Ext. Date: 12/06/21 12:58						

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
TCLP Volatiles by EPA 1311 - Westborough Lab								
Chloroform	ND		ug/l	7.5		10		
Carbon tetrachloride	ND		ug/l	5.0		10		
Tetrachloroethene	ND		ug/l	5.0		10		
Chlorobenzene	13		ug/l	5.0		10		
1,2-Dichloroethane	ND		ug/l	5.0		10		
Benzene	ND		ug/l	5.0		10		
Vinyl chloride	ND		ug/l	10		10		
1,1-Dichloroethene	ND		ug/l	5.0		10		
Trichloroethene	ND		ug/l	5.0		10		
1,4-Dichlorobenzene	ND		ug/l	25		10		
2-Butanone	ND		ug/l	50		10		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	112		70-130	
Toluene-d8	91		70-130	
4-Bromofluorobenzene	92		70-130	
dibromofluoromethane	112		70-130	



		Serial_No	p:12162116:46
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037
Project Number:	Not Specified	Report Date:	12/16/21
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2166037-02 STORM SEWER MODIFICATION SOIL COMP A BUFFALO, NY	Date Collected: Date Received: Field Prep:	12/02/21 10:05 12/02/21 Not Specified
Sample Depth:			
Matrix: Analytical Method: Analytical Date: Analyst: Percent Solids:	Soil 1,8260C 12/07/21 20:43 NLK 78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
TCLP Volatiles by EPA 1311 - Westborough Lab								
Chloroform	ND		ug/l	7.5		10		
Carbon tetrachloride	ND		ug/l	5.0		10		
Tetrachloroethene	ND		ug/l	5.0		10		
Chlorobenzene	ND		ug/l	5.0		10		
1,2-Dichloroethane	ND		ug/l	5.0		10		
Benzene	ND		ug/l	5.0		10		
Vinyl chloride	ND		ug/l	10		10		
1,1-Dichloroethene	ND		ug/l	5.0		10		
Trichloroethene	ND		ug/l	5.0		10		
1,4-Dichlorobenzene	ND		ug/l	25		10		
2-Butanone	ND		ug/l	50		10		

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	112	70-130	
Toluene-d8	94	70-130	
4-Bromofluorobenzene	93	70-130	
dibromofluoromethane	110	70-130	



TCLP/SPLP Ext. Date: 12/06/21 12:58

		Serial_No	p:12162116:46
Project Name:	SOIL SAMPLING DEC 2021	Lab Number:	L2166037
Project Number:	Not Specified	Report Date:	12/16/21
	SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY	Date Collected: Date Received: Field Prep:	12/02/21 10:10 12/02/21 Not Specified
Sample Depth:			
Matrix: Analytical Method: Analytical Date: Analyst: Percent Solids:	Soil 1,8260C 12/07/21 21:03 NLK 76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
TCLP Volatiles by EPA 1311 - Westborough Lab								
Chloroform	ND		ug/l	7.5		10		
Carbon tetrachloride	ND		ug/l	5.0		10		
Tetrachloroethene	ND		ug/l	5.0		10		
Chlorobenzene	ND		ug/l	5.0		10		
1,2-Dichloroethane	ND		ug/l	5.0		10		
Benzene	ND		ug/l	5.0		10		
Vinyl chloride	ND		ug/l	10		10		
1,1-Dichloroethene	ND		ug/l	5.0		10		
Trichloroethene	ND		ug/l	5.0		10		
1,4-Dichlorobenzene	ND		ug/l	25		10		
2-Butanone	ND		ug/l	50		10		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	116		70-130	
Toluene-d8	95		70-130	
4-Bromofluorobenzene	90		70-130	
dibromofluoromethane	110		70-130	



TCLP/SPLP Ext. Date: 12/06/21 12:58

METALS



1,6010D

1,6010D

1,6010D

1,6010D

1,7470A

1,6010D

1,6010D

DL

DL

DL

DL

AC

DL

DL

Project Name:	SOIL	SAMPLING	G DEC 202	21			Lab Nu	mber:	L21660)37	
Project Number:	Not S	pecified					Report	Date:	12/16/2	21	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-01					Date Co	ollected:	12/02/21	1 10:00	
Client ID:	ASPH	ALT SOIL	REMOVA	L			Date Re	eceived:	12/02/21	1	
Sample Location:	BUFF	ALO, NY					Field Pr	ep:	Not Spe	cified	
Sample Depth:							TCLP/S	PLP Ext. Date	e: 12/07/2	1 15:02	
Matrix:	Soil										
Percent Solids:	77%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
TCLP Metals by EP	A 1311 -	Mansfield	Lab								
Arsenic, TCLP	ND		mg/l	1.00		1	12/12/21 17:44	4 12/13/21 21:55	EPA 3015	1,6010D	DL



Barium, TCLP

Cadmium, TCLP

Chromium, TCLP

Lead, TCLP

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

ND

ND

ND

ND

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

0.500

0.100

0.200

0.500

0.0010

0.500

0.100

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1

1

1

1

1

1

1

12/12/21 17:44 12/13/21 21:55 EPA 3015

12/12/21 16:41 12/13/21 10:42 EPA 7470A

12/12/21 17:44 12/13/21 21:55 EPA 3015

12/12/21 17:44 12/13/21 21:55 EPA 3015

Project Name:	SOIL	SAMPLIN	3 DEC 20	21			Lab Nu	mber:	L21660	37	
-				21					L21000	01	
Project Number:	Not S	pecified					Report	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-01					Date Co	ollected:	12/02/21	10:00	
Client ID:	ASPH	ALT SOIL	REMOVA	L			Date R	eceived:	12/02/21		
Sample Location:	BUFF	ALO, NY					Field P	rep:	Not Spee	cified	
Sample Depth:											
Matrix:	Soil										
Percent Solids:	77%								_		
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Arsenic, Total	59.8		mg/kg	0.494		1	12/13/21 12:0	0 12/15/21 17:20	EPA 3050B	1,6010D	EW



Project Name:SOIL SAMPLING DEC 2021Lab Number:L2166037Project Number:Not SpecifiedReport Date:12/16/21SAMPLE RESULTSLab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP A BUFFALO, NYDate Date Date DateNot Specified	
SAMPLE RESULTSLab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP AField Prep:Not SpecifieBUFFALO, NYField Prep:Not Specifie	
Lab ID:L2166037-02Date Collected:12/02/21 10Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP A BUFFALO, NYField Prep:Not Specifie	
Client ID:STORM SEWER MODIFICATION SOILDate Received:12/02/21Sample Location:COMP AField Prep:Not SpecifieBUFFALO, NYField Prep:Not Specifie	
Sample Location: COMP A Field Prep: Not Specifie BUFFALO, NY	
BUFFALO, NY	
	d
Sample Depth: TCLP/SPLP Ext. Date: 12/07/21 15	5:02
Matrix: Soil	
Percent Solids: 78% Dilution Date Date Prep A	nalytical
	Method Analysi
TCLP Metals by EPA 1311 - Mansfield Lab	
Arsenic, TCLP ND mg/l 1.00 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	,6010D DL
Barium, TCLP 0.649 mg/l 0.500 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	,6010D DL
	,6010D DL
Cadmium, TCLP ND mg/l 0.100 1 12/12/21 17:44 12/13/21 21:42 EPA 3015 1	
	,6010D DL

1,7470A

1,6010D

1,6010D

AC

DL

DL

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

mg/l

mg/l

mg/l

0.0010

0.500

0.100

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1

1

1

12/12/21 16:41 12/13/21 10:52 EPA 7470A

12/12/21 17:44 12/13/21 21:42 EPA 3015

12/12/21 17:44 12/13/21 21:42 EPA 3015

Project Name:	SOIL	SAMPLIN	G DEC 20)21			Lab Nu	mber:	L21660	37	
Project Number:	Not S	pecified					Report	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-02					Date Co	ollected:	12/02/21	10:05	
Client ID:	STOR	M SEWEF	R MODIFI	CATION	SOIL		Date Re	eceived:	12/02/21		
Sample Location:		P A ALO, NY					Field Pr	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Soil										
Percent Solids:	78%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analys
Parameter Total Metals - Mans		Qualifier	Units	RL	MDL	Factor		Analyzeu	Metriod	Method	Ar
Arsenic, Total	21.6		mg/kg	0.509		1	12/13/21 12:0	0 12/15/21 17:05	EPA 3050B	1,6010D	ΕV



12/12/21 16:41 12/13/21 11:02 EPA 7470A

12/12/21 17:44 12/13/21 21:46 EPA 3015

12/12/21 17:44 12/13/21 21:46 EPA 3015

Project Name:	SOIL	SAMPLING	G DEC 20	021			Lab Nun	nber:	L21660	37	
Project Number:	Not S	pecified					Report I	Date:	12/16/2	1	
				SAMPL	E RES	ULTS					
Lab ID:	L2166	037-03					Date Col	llected:	12/02/21	10:10	
Client ID:	STOR	M SEWER	MODIF	ICATION	SOIL		Date Re	ceived:	12/02/21		
Sample Location:	COMF BUFF	P B ALO, NY					Field Pre	ep:	Not Spe	cified	
Sample Depth:							TCLP/SF	PLP Ext. Date	e: 12/07/21	15:02	
Matrix:	Soil										
Percent Solids:	76%					Dilution	Data	Dete	Duen	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Date Prepared	Date Analyzed	Prep Method	Method	Analyst
TCLP Metals by EP	A 1311 -	Mansfield I	Lab								
Arsenic, TCLP	ND		mg/l	1.00		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Barium, TCLP	0.622		mg/l	0.500		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL
Lead, TCLP	ND		mg/l	0.500		1	12/12/21 17:44	12/13/21 21:46	EPA 3015	1,6010D	DL

Mercury, TCLP

Selenium, TCLP

Silver, TCLP

ND

ND

ND

mg/l

mg/l

mg/l

0.0010

0.500

0.100

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1

1

1



1,7470A

1,6010D

1,6010D

AC

DL

DL

SOIL	SAMPLING	G DEC 20)21			Lab Nu	mber:	L21660	37	
Not Sp	pecified					Report	Date:	12/16/2	1	
			SAMPL	E RES	ULTS					
L2166	037-03					Date Co	ollected:	12/02/21	10:10	
STOR	M SEWER	MODIFI	CATION	SOIL		Date Re	eceived:	12/02/21		
	_					Field Pr	ep:	Not Spec	cified	
Soil										
76%					Dilution	Date	Date	Prop	Analytical	
Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analys
	quanter	Units				•	-			
	Not S L2166 STOR COMF BUFF Soil 76%	Not Specified L2166037-03 STORM SEWER COMP B BUFFALO, NY Soil 76% Result Qualifier	Not Specified L2166037-03 STORM SEWER MODIFI COMP B BUFFALO, NY Soil 76% Result Qualifier Units	SAMPL L2166037-03 STORM SEWER MODIFICATION COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL	Not Specified SAMPLE RES L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL MDL	Not Specified SAMPLE RESULTS L2166037-03 STORM SEWER MODIFICATION SOIL COMP B BUFFALO, NY Soil 76% Result Qualifier Units RL MDL Dilution Factor	Not Specified Report SAMPLE RESULTS L2166037-03 Date Co STORM SEWER MODIFICATION SOIL Date Re COMP B Field Pr BUFFALO, NY Dilution Soil 76% Result Qualifier Units RL MDL Factor	Not Specified Report Date: SAMPLE RESULTS L2166037-03 Date Collected: STORM SEWER MODIFICATION SOIL Date Received: COMP B Field Prep: BUFFALO, NY Date Soil 76% Result Qualifier Units RL MDL	Not Specified Report Date: 12/16/2 SAMPLE RESULTS Date Collected: 12/02/21 L2166037-03 Date Collected: 12/02/21 STORM SEWER MODIFICATION SOIL Date Received: 12/02/21 COMP B Field Prep: Not Specified BUFFALO, NY Dilution Date Date Soil 76% Dilution Date Date Result Qualifier Units RL MDL Mathematical Mathematical	Not Specified Report Date: 12/16/21 SAMPLE RESULTS Date Collected: 12/02/21 10:10 L2166037-03 Date Collected: 12/02/21 10:10 STORM SEWER MODIFICATION SOIL Date Received: 12/02/21 COMP B Field Prep: Not Specified BUFFALO, NY Dilution Date Date Prep Analytical Result Qualifier Units RL MDL Prepared Analyzed Method



INORGANICS & MISCELLANEOUS



Serial	No:12162116:46
oonal_	

Project Name: Project Number:	SOIL SAMP Not Specifie		C 2021						L2166037 12/16/21	
				SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-0 ASPHALT S BUFFALO, I	OIL REM	OVAL					Received:	12/02/21 10:00 12/02/21 Not Specified	I
Sample Depth: Matrix:	Soil					Dilution	Date	Data	Analysiaal	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Analytical Method	Analys
eneral Chemistry - We	stborough Lat)								
lids, Total	76.5		%	0.100	NA	1	-	12/07/21 07:58	8 121,2540G	RI



Serial No:12162116:46

Project Name: Project Number:	SOIL SAMP		C 2021					lumber: rt Date:	L2166037 12/16/21	
	-		:	SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-02 STORM SE\ BUFFALO, N	VER MO	DIFICAT	ION SOIL	COMP	A	20110	Collected: Received: Prep:	12/02/21 10:05 12/02/21 Not Specified	;
Sample Depth: Matrix:	Soil					Dilution	Date	Date	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analys
eneral Chemistry - Wes	stborough Lab)								
lids, Total	77.5		%	0.100	NA	1	-	12/07/21 07:5	58 121,2540G	RI



Serial No:12162116:46

Project Name: Project Number:	SOIL SAMP		C 2021					lumber: rt Date:	L2166037 12/16/21	
				SAMPLE	RESUL	rs				
Lab ID: Client ID: Sample Location:	L2166037-03 STORM SEV BUFFALO, N	VER MO	DIFICAT	ION SOIL	COMP	В		Collected: Received: Prep:	12/02/21 10:10 12/02/21 Not Specified)
Sample Depth: Matrix: Parameter	Soil Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analys
neral Chemistry - Wes	stborough Lab)								
lids, Total	76.2		%	0.100	NA	1	-	12/07/21 07:	58 121,2540G	RI



Project Name: SOIL SAMPLING DEC 2021 Project Number: Not Specified

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Info		Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2166037-01A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-01B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-01C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-01D	Glass 500ml/16oz unpreserved	А	NA		3.0	Υ	Absent		-
L2166037-01S	Vial unpreserved Extracts	А	NA		3.0	Υ	Absent		TCLP-VOA(14)
L2166037-01T	Vial unpreserved Extracts	А	NA		3.0	Υ	Absent		TCLP-VOA(14)
L2166037-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG- C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG- CI(180)
L2166037-01X9	Tumble Vessel	А	NA		3.0	Y	Absent		-
L2166037-02A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-02B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-02C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-02D	Glass 500ml/16oz unpreserved	А	NA		3.0	Y	Absent		-
L2166037-02S	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-02T	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
L2166037-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG- C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG- CI(180)
L2166037-02X9	Tumble Vessel	А	NA		3.0	Y	Absent		-
L2166037-03A	Plastic 2oz unpreserved for TS	А	NA		3.0	Y	Absent		TS(7)
L2166037-03B	Metals Only-Glass 60mL/2oz unpreserved	А	NA		3.0	Y	Absent		AS-TI(180)
L2166037-03C	Vial Large Septa unpreserved (4oz)	А	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166037-03D	Glass 500ml/16oz unpreserved	А	NA		3.0	Y	Absent		-
L2166037-03S	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)





Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

Serial_No:12162116:46 *Lab Number:* L2166037 *Report Date:* 12/16/21

Container Information					Final	Temp			Frozen	
	Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
	L2166037-03T	Vial unpreserved Extracts	А	NA		3.0	Y	Absent		TCLP-VOA(14)
	L2166037-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG- C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG- CI(180)
	L2166037-03X9	Tumble Vessel	А	NA		3.0	Y	Absent		-



ALPHA

Project Name: SOIL SAMPLING DEC 2021

Project Number: Not Specified

Lab Number: L2166037

Report Date: 12/16/21

GLOSSARY

Acronyms

•	
DL	 Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report - No QC



Project Name: SOIL SAMPLING DEC 2021

Project Number: Not Specified

Lab Number: L2166037

Report Date: 12/16/21

Footnotes

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- The r

reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- н - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- Μ - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND - Not detected at the reporting limit (RL) for the sample.
- NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report - No QC



Project Name: SOIL SAMPLING DEC 2021

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Data Qualifiers

the identification is based on a mass spectral library search.

- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report - No QC



Project Name:SOIL SAMPLING DEC 2021Project Number:Not Specified

 Lab Number:
 L2166037

 Report Date:
 12/16/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane Toxanbene Aldrin alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Westborough, MA 01681 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14160: 275 Cooper Ave, Sulle 105				e 1 f 1			Rec'	ď	12	3lzı		ALPHA Job # LZ166037		
		Mansfield, MA 02048 320 Forbes Blvd	Project Information						verabl	- C		-		Billing Information			
		TEL: 508-822-9300 FAX: 508-822-3288	Project Name: Soll Sampling Dec 2021					E	ASP	S		ASP-B			Same as Client Info		
0.0			Project Location:	Buffalo, NY						IS (1)	File)		EQuis	6 (4 File)	PO# A000827491		
Client Information			Project #		_			E	10.00	-	_		_				
Client: Honeywell		(Use Project name as P	Project #)				Reg	ulatory	Requ	uireme	nl			Disposal Site Information			
Address:	20 Peaboo	ly Street	Project Manager:	Matthew Ka	andefer				NYT	OGS		NY Part 375			Please identify below location of		
Buffalo, NY	14120		ALPHAQuote #:	1.00] C	AWC	Stand	lards		NY CP	-51	applicable disposal facilities.		
Phone:	716-471-3	158	Turn-Around Time						NYB	lestricte	ed Use		Other		Disposal Facility;		
Fax:	716-827-62	221	Standar	4 2	Due Date	91] NYU	Inrestri	cted Us	e			NJ NY Other:		
Email:	Matthew.K	andefer@honeywell.co	Rush (only if pre approved	(t	# of Days	5;			NYC	Sewer	Discha	rge					
These sam	ples have b	een previously analyze	d by Alpha					ANA	ANALYSIS						Sample Filtration		
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(Lab Us	se Only)	Sa	mple ID	Date	Time	Matrix	Initials	100		122					Sample Specific Comments	ġ.	
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1	-02	Storm Sewer Modifica	tion Soll Comp A	12/2/2021	10:05	Soil	AF	x	x	x	x			1.1		4	
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Preservative (A = None B = HCl		A = Amber Glass	Westboro: Certification I Mansfield: Certification I	441 TON 2510	Container Typ		Container Type		G	G P			Please print clearly, legib and completely. Samples				
$C = HNO_3$ $D = H_2SO_4$ E = NaOH		V = Vial G = Glass B = Bacteria Cup				Preservative		A	A	A	A				not be logged in and turnaround time clock will not start until any ambiguities are		
F = MeOH		C = Cube O = Olher	Relinquished	By:	Date	/Time	/Time			y:	1		Date/	Time			
$G = NaHSO_4$ $H = Na_2S_2O_3$ K/E = Zn Ac/N O = Other		E = Encore D = BOD Bottle		AAL	7/ 12-2-2	21/1440			Received By:				3/21	0100	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S		
Form No: 01-25 (rev. 30-Sept-2013)		2-00-		1			-							TERMS & CONDITIONS	l+		

DC	HIPPING		2. Page 1 of 3	Emergency Respons	e Phone	4. Shipping		Tracking Nu	
10.0	OCUMENT	NYD000632315		(877) 818-0087		Z	Ζ0		843
5. G	Generator's Name and Ma	ailing Address MATTHEW KANDEFER		nerator's Site Address	s (if different t	han mailing addres	is)		
80 29	ONEYWELL INTE PEABODY STRE JEFALO, NY 142	ERNATIONAL, INC. ZET	9	AME					
Gen	nerator's Phone:	716 827-6318			-			_	
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8. D	esignated Facility Name	and Site Address WM OF NEW YORK, LLC				U.S. EPA D N	lumber		
5		10860 OLEAN ROAD							
Faci	ility's Phone: 716	CHAFFEE, NY 14030-979 496-3420	19			INDI	R	E Q	0
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GENERATOR / SHIPPER'S INITIAL COPY



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	HO 20	5. Generator's Name and Mailing Address MATTHEW KANDEFT & Generator's Site Address (if different than mailing address) HONEY WELL INTERNATIONAL, INC SAME 20 PEABODY STREET BUFFALO, NY 14210															
	Gen	Generator's Phone: 716 827-6318															
	6. Transporter 1 Company Name U.S. EPA ID Number 1002																
	7. Tr	ansporter 2 Company Nam	10						U.S. EPA ID N	lumber							
	8. D	esignated Facility Name an	d Site Address WM OF NEW YO	RK, LLC			-	_	U.S. EPA ID N	lumber							
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		4. Special Handling Instructions and Additional Information															
	15 GENERATOR S/OFF EROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national go Generator's/Offeror's Printed/Typed Name Signature									pping name	, and are clas Mon		aged, Year				
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	20. D	esignated Facility Owner or	Operator: Certification of receipt of ship	ment except as noted in	Item 18a	_	_										
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