Appendix L —Data Usability Summary Report

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL SAMPLES

VOA, SVOA, Pest, PCB, Metals

SDG No. 24E0628

Sampling Date: May 9, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E0628
Date: August 26, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA/SVOA	Pest/PCB	Metals/ Mercury
EP-01	24E0628-01	Soil	X	X	X
EP-02	24E0628-02	Soil	X	X	X
EP-03	24E0628-03	Soil	X	X	X
EP-22	24E0628-04	Soil	X	X	X
EP-23	24E0628-05	Soil	X	X	X
EP-24	24E0628-06	Soil	X	X	X

The sample delivery group (SDG) contained results for six soil samples. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); and 7473B (Mercury - Soils). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA – The percent difference (%D) in the initial calibration

verification (ICV) was below QC limits for Acetone and resulted in the following qualifications;

Sample ID	Compound	Qualifier
24E0628-02, 24E0628-03, 24E0628-05	Acetone	UJ
24E0628-04, 24E0628-06	Acetone	J

VOA - The percent difference (%D) in the continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0628-01 to 24E0628-06	1,3-Dichlorobenzene Acrolein Carbon disulfide p-Isopropyltoluene	UJ

SVOA - The percent difference (%D) in the continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0628-01 to 24E0628-06	2,4-Dinitrophenol 2-Nitrophenol 4,6-Dinitro-2-methylphenol Benzidine Benzoic acid Bis(2-chloroisopropyl)ether Hexachlorocyclopentadiene	UJ

7. Laboratory Control Sample (LCS): The results were acceptable.

8. Surrogates: The results were acceptable.

9. Internal Standards: There were no deficiencies.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Metals – The percent recoveries (%R) were outside of QC limits for several compounds in both the MS/MSD and post-digest spike. This resulted in the following qualifications in the associated sample;

Sample ID	Compound	Qualifier
24E0628-06	Silver	R
	Aluminum	J+
	Iron	J

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.

12. Field Duplicate: There was no FD pairing submitted with this sample set.

13. Serial Dilution: Metals – The percent difference (%D) was above QC limits for several compounds and resulted in the following qualifications in the associated sample;

Sample ID	Compound	Qualifier
24E0628-06	Calcium Iron Magnesium Manganese Potassium	J

14. Compound Identification/Quantitation: The results are acceptable

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-01

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-01	File ID:	V3182599.D
Sampled:	05/09/24 12:10	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 10:52
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.56 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0049	U
71-55-6	1,1,1-Trichloroethane	1	0.0049	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0049	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0049	U
79-00-5	1,1,2-Trichloroethane	1	0.0049	U
75-34-3	1,1-Dichloroethane	1	0.0049	U
75-35-4	1,1-Dichloroethylene	1	0.0049	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0049	U
96-18-4	1,2,3-Trichloropropane	1	0.0049	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0049	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0049	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0049	U
106-93-4	1,2-Dibromoethane	1	0.0049	U
95-50-1	1,2-Dichlorobenzene	1	0.0049	U
107-06-2	1,2-Dichloroethane	1	0.0049	U
78-87-5	1,2-Dichloropropane	1	0.0049	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	U
541-73-1	1,3-Dichlorobenzene	1	0.0049	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0049	U
123-91-1	1,4-Dioxane	1	0.098	U
78-93-3	2-Butanone	1	0.0049	U
591-78-6	2-Hexanone	1	0.0049	U
108-10-1	4-Methyl-2-pentanone	1	0.0049	U
67-64-1	Acetone	1	0.0085	J
107-02-8	Acrolein	1	0.0098	UJ
107-13-1	Acrylonitrile	1	0.0049	U
71-43-2	Benzene	1	0.0049	U
74-97-5	Bromochloromethane	1	0.0049	U
75-27-4	Bromodichloromethane	1	0.0049	U
75-25-2	Bromoform	1	0.0049	U
74-83-9	Bromomethane	1	0.0049	U
75-15-0	Carbon disulfide	1	0.0049	UJ
56-23-5	Carbon tetrachloride	1	0.0049	U
108-90-7	Chlorobenzene	1	0.0049	U
75-00-3	Chloroethane	1	0.0049	U
67-66-3	Chloroform	1	0.0049	U
74-87-3	Chloromethane	1	0.0049	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0049	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0049	U
110-82-7	Cyclohexane	1	0.0049	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-01

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-01 File ID: V3182599.D

Sampled: 05/09/24 12:10 Prepared: 05/10/24 09:00 Analyzed: 05/10/24 10:52

Solids: 91.93 Preparation: EPA 5035A Initial/Final: 5.56 g / 5 ml

Batch: BE40712 Sequence: S4E1312 Calibration: SE40006 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0049	U
74-95-3	Dibromomethane	1	0.0049	U
75-71-8	Dichlorodifluoromethane	1	0.0049	U
100-41-4	Ethyl Benzene	1	0.0049	U
87-68-3	Hexachlorobutadiene	1	0.0049	U
98-82-8	Isopropylbenzene	1	0.0049	U
79-20-9	Methyl acetate	1	0.0049	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0049	U
108-87-2	Methylcyclohexane	1	0.0049	U
75-09-2	Methylene chloride	1	0.0098	U
104-51-8	n-Butylbenzene	1	0.0049	U
103-65-1	n-Propylbenzene	1	0.0049	U
95-47-6	o-Xylene	1	0.0049	U
179601-23-1	p- & m- Xylenes	1	0.0098	U
99-87-6	p-Isopropyltoluene	1	0.0049	U J
135-98-8	sec-Butylbenzene	1	0.0049	U
100-42-5	Styrene	1	0.0049	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0049	U
98-06-6	tert-Butylbenzene	1	0.0049	U
127-18-4	Tetrachloroethylene	1	0.0049	U
108-88-3	Toluene	1	0.0049	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0049	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0049	U
79-01-6	Trichloroethylene	1	0.0049	U
75-69-4	Trichlorofluoromethane	1	0.0049	U
75-01-4	Vinyl Chloride	1	0.0049	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.1	94.2	77 - 125	
SURR: Toluene-d8	50.0	49.8	99.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.9	108	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	227163	5.692	236206	5.689	
ISTD: Chlorobenzene-d5	870949	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	312277	11.689	402032	11.686	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	V3182600.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 11:18
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	6.08 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U
71-55-6	1,1,1-Trichloroethane	1	0.0045	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U
79-00-5	1,1,2-Trichloroethane	1	0.0045	U
75-34-3	1,1-Dichloroethane	1	0.0045	U
75-35-4	1,1-Dichloroethylene	1	0.0045	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U
96-18-4	1,2,3-Trichloropropane	1	0.0045	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0045	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U
106-93-4	1,2-Dibromoethane	1	0.0045	U
95-50-1	1,2-Dichlorobenzene	1	0.0045	U
107-06-2	1,2-Dichloroethane	1	0.0045	U
78-87-5	1,2-Dichloropropane	1	0.0045	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0045	U
541-73-1	1,3-Dichlorobenzene	1	0.0045	U J
106-46-7	1,4-Dichlorobenzene	1	0.0045	U
123-91-1	1,4-Dioxane	1	0.089	U
78-93-3	2-Butanone	1	0.0045	U
591-78-6	2-Hexanone	1	0.0045	U
108-10-1	4-Methyl-2-pentanone	1	0.0045	U
67-64-1	Acetone	1	0.0089	U J
107-02-8	Acrolein	1	0.0089	U J
107-13-1	Acrylonitrile	1	0.0045	U
71-43-2	Benzene	1	0.0045	U
74-97-5	Bromochloromethane	1	0.0045	U
75-27-4	Bromodichloromethane	1	0.0045	U
75-25-2	Bromoform	1	0.0045	U
74-83-9	Bromomethane	1	0.0045	U
75-15-0	Carbon disulfide	1	0.0045	U J
56-23-5	Carbon tetrachloride	1	0.0045	U
108-90-7	Chlorobenzene	1	0.0045	U
75-00-3	Chloroethane	1	0.0045	U
67-66-3	Chloroform	1	0.0045	U
74-87-3	Chloromethane	1	0.0045	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U
110-82-7	Cyclohexane	1	0.0045	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	V3182600.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 11:18
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	6.08 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0045	U
74-95-3	Dibromomethane	1	0.0045	U
75-71-8	Dichlorodifluoromethane	1	0.0045	U
100-41-4	Ethyl Benzene	1	0.0045	U
87-68-3	Hexachlorobutadiene	1	0.0045	U
98-82-8	Isopropylbenzene	1	0.0045	U
79-20-9	Methyl acetate	1	0.0045	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U
108-87-2	Methylcyclohexane	1	0.0045	U
75-09-2	Methylene chloride	1	0.0089	U
104-51-8	n-Butylbenzene	1	0.0045	U
103-65-1	n-Propylbenzene	1	0.0045	U
95-47-6	o-Xylene	1	0.0045	U
179601-23-1	p- & m- Xylenes	1	0.0089	U
99-87-6	p-Isopropyltoluene	1	0.0045	U J
135-98-8	sec-Butylbenzene	1	0.0045	U
100-42-5	Styrene	1	0.0045	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U
98-06-6	tert-Butylbenzene	1	0.0045	U
127-18-4	Tetrachloroethylene	1	0.0045	U
108-88-3	Toluene	1	0.0045	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U
79-01-6	Trichloroethylene	1	0.0045	U
75-69-4	Trichlorofluoromethane	1	0.0045	U
75-01-4	Vinyl Chloride	1	0.0045	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.4	94.9	77 - 125	
SURR: Toluene-d8	50.0	49.7	99.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.1	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	215948	5.689	236206	5.689	
ISTD: Chlorobenzene-d5	821879	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	295855	11.689	402032	11.686	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	V3182601.D
Sampled:	05/09/24 12:20	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 11:44
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.3 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U
71-55-6	1,1,1-Trichloroethane	1	0.0051	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U
79-00-5	1,1,2-Trichloroethane	1	0.0051	U
75-34-3	1,1-Dichloroethane	1	0.0051	U
75-35-4	1,1-Dichloroethylene	1	0.0051	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U
96-18-4	1,2,3-Trichloropropane	1	0.0051	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0051	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U
106-93-4	1,2-Dibromoethane	1	0.0051	U
95-50-1	1,2-Dichlorobenzene	1	0.0051	U
107-06-2	1,2-Dichloroethane	1	0.0051	U
78-87-5	1,2-Dichloropropane	1	0.0051	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0051	U
541-73-1	1,3-Dichlorobenzene	1	0.0051	U J
106-46-7	1,4-Dichlorobenzene	1	0.0051	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0051	U
591-78-6	2-Hexanone	1	0.0051	U
108-10-1	4-Methyl-2-pentanone	1	0.0051	U
67-64-1	Acetone	1	0.010	U J
107-02-8	Acrolein	1	0.010	U J
107-13-1	Acrylonitrile	1	0.0051	U
71-43-2	Benzene	1	0.0051	U
74-97-5	Bromochloromethane	1	0.0051	U
75-27-4	Bromodichloromethane	1	0.0051	U
75-25-2	Bromoform	1	0.0051	U
74-83-9	Bromomethane	1	0.0051	U
75-15-0	Carbon disulfide	1	0.0051	U J
56-23-5	Carbon tetrachloride	1	0.0051	U
108-90-7	Chlorobenzene	1	0.0051	U
75-00-3	Chloroethane	1	0.0051	U
67-66-3	Chloroform	1	0.0051	U
74-87-3	Chloromethane	1	0.0051	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U
110-82-7	Cyclohexane	1	0.0051	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	V3182601.D
Sampled:	05/09/24 12:20	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 11:44
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.3 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0051	U
74-95-3	Dibromomethane	1	0.0051	U
75-71-8	Dichlorodifluoromethane	1	0.0051	U
100-41-4	Ethyl Benzene	1	0.0051	U
87-68-3	Hexachlorobutadiene	1	0.0051	U
98-82-8	Isopropylbenzene	1	0.0051	U
79-20-9	Methyl acetate	1	0.0051	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U
108-87-2	Methylcyclohexane	1	0.0051	U
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0051	U
103-65-1	n-Propylbenzene	1	0.0051	U
95-47-6	o-Xylene	1	0.0051	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0051	U J
135-98-8	sec-Butylbenzene	1	0.0051	U
100-42-5	Styrene	1	0.0051	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U
98-06-6	tert-Butylbenzene	1	0.0051	U
127-18-4	Tetrachloroethylene	1	0.0051	U
108-88-3	Toluene	1	0.0051	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U
79-01-6	Trichloroethylene	1	0.0051	U
75-69-4	Trichlorofluoromethane	1	0.0051	U
75-01-4	Vinyl Chloride	1	0.0051	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.7	95.3	77 - 125	
SURR: Toluene-d8	50.0	50.0	100	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.3	107	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	204932	5.689	236206	5.689	
ISTD: Chlorobenzene-d5	780576	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	278502	11.689	402032	11.686	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	V3182602.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 12:11
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.88 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U J
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.092	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.056	J
107-02-8	Acrolein	1	0.0092	U
107-13-1	Acrylonitrile	1	0.0046	U J
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U
75-15-0	Carbon disulfide	1	0.0046	U J
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	V3182602.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 12:11
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.88 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0092	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0092	U
99-87-6	p-Isopropyltoluene	1	0.0046	U J
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0034	J
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.8	93.7	77 - 125	
SURR: Toluene-d8	50.0	49.8	99.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.3	107	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	206476	5.689	236206	5.689	
ISTD: Chlorobenzene-d5	791768	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	283396	11.689	402032	11.686	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	V3182603.D
Sampled:	05/09/24 12:32	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 12:37
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.94 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U J
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.092	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.0092	U J
107-02-8	Acrolein	1	0.0092	U J
107-13-1	Acrylonitrile	1	0.0046	U
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U
75-15-0	Carbon disulfide	1	0.0046	U J
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	V3182603.D
Sampled:	05/09/24 12:32	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 12:37
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.94 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0092	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0092	U
99-87-6	p-Isopropyltoluene	1	0.0046	U J
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0046	U
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.2	94.3	77 - 125	
SURR: Toluene-d8	50.0	49.8	99.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.3	107	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	202813	5.689	236206	5.689	
ISTD: Chlorobenzene-d5	776148	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	276884	11.689	402032	11.686	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-24

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-06	File ID:	V3182604.D
Sampled:	05/09/24 12:40	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 13:03
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.75 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U J
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.095	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.026	J
107-02-8	Acrolein	1	0.0095	U J
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U J
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-24

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-06	File ID:	V3182604.D
Sampled:	05/09/24 12:40	Prepared:	05/10/24 09:00	Analyzed:	05/10/24 13:03
Solids:	91.93	Preparation:	EPA 5035A	Initial/Final:	5.75 g / 5 ml
Batch:	BE40712	Sequence:	S4E1312	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0095	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0095	U
99-87-6	p-Isopropyltoluene	1	0.0047	U J
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.5	95.0	77 - 125	
SURR: Toluene-d8	50.0	49.9	99.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.8	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	205777	5.689	236206	5.689	
ISTD: Chlorobenzene-d5	790943	8.708	952477	8.708	
ISTD: 1,2-Dichlorobenzene-d4	285525	11.689	402032	11.686	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-01

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-01	File ID:	SV62417.D
Sampled:	05/09/24 12:10	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 21:31
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	U J
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	U J
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-01

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-01 File ID: SV62417.D

Sampled: 05/09/24 12:10 Prepared: 05/10/24 08:48 Analyzed: 05/13/24 21:31

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BE40717 Sequence: S4E1406 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	U J
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	U J
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.24	68.8	20 - 108	
SURR: Phenol-d6	1.81	1.20	66.5	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.642	71.0	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-01

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-01	File ID:	SV62417.D
Sampled:	05/09/24 12:10	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 21:31
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.616	68.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.21	66.8	19 - 110	
SURR: Terphenyl-d14	0.903	0.646	71.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1564552	5.09	1936295	5.09	
ISTD: Naphthalene-d8	5769303	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3490508	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6155144	9.67	6845874	9.67	
ISTD: Chrysene-d12	6312279	15.16	6962243	15.17	
ISTD: Perylene-d12	7679169	18.29	8298417	18.29	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	SV62418.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 22:02
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	U J
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	U J
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	SV62418.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 22:02
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	U J
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	U J
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.37	75.8	20 - 108	
SURR: Phenol-d6	1.81	1.31	72.8	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.650	72.0	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	SV62418.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 22:02
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.642	71.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.49	82.3	19 - 110	
SURR: Terphenyl-d14	0.903	0.659	73.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1751935	5.09	1936295	5.09	
ISTD: Naphthalene-d8	6381093	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3798381	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6785634	9.67	6845874	9.67	
ISTD: Chrysene-d12	6876314	15.16	6962243	15.17	
ISTD: Perylene-d12	8329076	18.29	8298417	18.29	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	SV62419.D
Sampled:	05/09/24 12:20	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 22:33
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	UJ
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-03

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-03 File ID: SV62419.D

Sampled: 05/09/24 12:20 Prepared: 05/10/24 08:48 Analyzed: 05/13/24 22:33

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BE40717 Sequence: S4E1406 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	UJ
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	UJ
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.25	69.4	20 - 108	
SURR: Phenol-d6	1.81	1.19	66.1	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.624	69.0	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	SV62419.D
Sampled:	05/09/24 12:20	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 22:33
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.604	66.9	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.36	75.2	19 - 110	
SURR: Terphenyl-d14	0.903	0.598	66.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1516055	5.09	1936295	5.09	
ISTD: Naphthalene-d8	5569310	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3425712	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6365981	9.67	6845874	9.67	
ISTD: Chrysene-d12	6554189	15.16	6962243	15.17	
ISTD: Perylene-d12	7875135	18.29	8298417	18.29	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	SV62420.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 23:04
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	U J
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	U J
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	SV62420.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 23:04
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	U J
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	U J
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.31	72.3	20 - 108	
SURR: Phenol-d6	1.81	1.25	69.2	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.644	71.3	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	SV62420.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 23:04
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.630	69.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.53	84.7	19 - 110	
SURR: Terphenyl-d14	0.903	0.666	73.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1650967	5.09	1936295	5.09	
ISTD: Naphthalene-d8	6075113	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3747709	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6837905	9.67	6845874	9.67	
ISTD: Chrysene-d12	6923631	15.16	6962243	15.17	
ISTD: Perylene-d12	8311932	18.29	8298417	18.29	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-05 File ID: SV62421.D

Sampled: 05/09/24 12:32 Prepared: 05/10/24 08:48 Analyzed: 05/13/24 23:34

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BE40717 Sequence: S4E1406 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	UJ
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	SV62421.D
Sampled:	05/09/24 12:32	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 23:34
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	U J
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	U J
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.27	70.1	20 - 108	
SURR: Phenol-d6	1.81	1.21	66.8	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.649	71.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	SV62421.D
Sampled:	05/09/24 12:32	Prepared:	05/10/24 08:48	Analyzed:	05/13/24 23:34
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.619	68.5	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.50	83.1	19 - 110	
SURR: Terphenyl-d14	0.903	0.678	75.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1540341	5.09	1936295	5.09	
ISTD: Naphthalene-d8	5615571	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3417323	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6447638	9.67	6845874	9.67	
ISTD: Chrysene-d12	6604263	15.16	6962243	15.17	
ISTD: Perylene-d12	7973613	18.29	8298417	18.29	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-24

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-06 File ID: SV62422.D

Sampled: 05/09/24 12:40 Prepared: 05/10/24 08:48 Analyzed: 05/14/24 00:05

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BE40717 Sequence: S4E1406 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0904	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U
120-83-2	2,4-Dichlorophenol	2	0.0904	U
105-67-9	2,4-Dimethylphenol	2	0.0904	U
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0904	U
606-20-2	2,6-Dinitrotoluene	2	0.0904	U
91-58-7	2-Chloronaphthalene	2	0.0904	U
95-57-8	2-Chlorophenol	2	0.0904	U
91-57-6	2-Methylnaphthalene	2	0.0904	U
95-48-7	2-Methylphenol	2	0.0904	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0904	U J
65794-96-9	3- & 4-Methylphenols	2	0.0904	U
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U
106-47-8	4-Chloroaniline	2	0.0904	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0904	U
208-96-8	Acenaphthylene	2	0.0904	U
98-86-2	Acetophenone	2	0.0904	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0904	U
1912-24-9	Atrazine	2	0.0904	U
100-52-7	Benzaldehyde	2	0.0904	U
92-87-5	Benzidine	2	0.362	U J
56-55-3	Benzo(a)anthracene	2	0.0904	U
50-32-8	Benzo(a)pyrene	2	0.0904	U
205-99-2	Benzo(b)fluoranthene	2	0.0904	U
191-24-2	Benzo(g,h,i)perylene	2	0.0904	U
207-08-9	Benzo(k)fluoranthene	2	0.0904	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-24

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-06 File ID: SV62422.D

Sampled: 05/09/24 12:40 Prepared: 05/10/24 08:48 Analyzed: 05/14/24 00:05

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BE40717 Sequence: S4E1406 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0904	UJ
100-51-6	Benzyl alcohol	2	0.0904	U
85-68-7	Benzyl butyl phthalate	2	0.0904	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0904	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0904	U
218-01-9	Chrysene	2	0.0904	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0904	U
132-64-9	Dibenzofuran	2	0.0904	U
84-66-2	Diethyl phthalate	2	0.0904	U
131-11-3	Dimethyl phthalate	2	0.0904	U
84-74-2	Di-n-butyl phthalate	2	0.0904	U
117-84-0	Di-n-octyl phthalate	2	0.0904	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0904	U
86-73-7	Fluorene	2	0.0904	U
118-74-1	Hexachlorobenzene	2	0.0904	U
87-68-3	Hexachlorobutadiene	2	0.0904	U
77-47-4	Hexachlorocyclopentadiene	2	0.0904	UJ
67-72-1	Hexachloroethane	2	0.0904	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0904	U
78-59-1	Isophorone	2	0.0904	U
91-20-3	Naphthalene	2	0.0904	U
98-95-3	Nitrobenzene	2	0.0904	U
62-75-9	N-Nitrosodimethylamine	2	0.0904	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U
87-86-5	Pentachlorophenol	2	0.0904	U
85-01-8	Phenanthrene	2	0.0904	U
108-95-2	Phenol	2	0.0904	U
129-00-0	Pyrene	2	0.0904	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.32	72.9	20 - 108	
SURR: Phenol-d6	1.81	1.22	67.4	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.656	72.6	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-24

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-06	File ID:	SV62422.D
Sampled:	05/09/24 12:40	Prepared:	05/10/24 08:48	Analyzed:	05/14/24 00:05
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40717	Sequence:	S4E1406	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.612	67.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.45	80.4	19 - 110	
SURR: Terphenyl-d14	0.903	0.632	69.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1713732	5.09	1936295	5.09	
ISTD: Naphthalene-d8	6117030	6.03	7198114	6.03	
ISTD: Acenaphthene-d10	3775428	7.62	3913183	7.62	
ISTD: Phenanthrene-d10	6888460	9.67	6845874	9.67	
ISTD: Chrysene-d12	6925804	15.16	6962243	15.17	
ISTD: Perylene-d12	8283485	18.29	8298417	18.29	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-01

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-01 File ID: P7026777.D

Sampled: 05/09/24 12:10 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 21:30

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0565	78.2	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0588	81.3	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-02

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-02 File ID: P7026778.D

Sampled: 05/09/24 12:15 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 21:47

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0619	85.7	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0647	89.5	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-03

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-03 File ID: P7026779.D

Sampled: 05/09/24 12:20 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 22:04

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0631	87.3	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0649	89.8	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-22

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-04 File ID: P7026780.D

Sampled: 05/09/24 12:28 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 22:21

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.8 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	U
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0350	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0706	0.0622	88.1	30 - 150	
Tetrachloro-m-xylene	0.0706	0.0635	90.0	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-05 File ID: P7026781.D

Sampled: 05/09/24 12:32 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 22:38

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0693	95.9	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0726	100	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-24

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-06 File ID: P7026782.D

Sampled: 05/09/24 12:40 Prepared: 05/10/24 08:40 Analyzed: 05/10/24 22:55

Solids: 91.93 Preparation: EPA 3550C Initial/Final: 30.8 g / 10 mL

Batch: BE40710 Sequence: S4E1331 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	U
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0350	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0706	0.0632	89.5	30 - 150	
Tetrachloro-m-xylene	0.0706	0.0666	94.3	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-01

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-01	File ID:	P1145621.D
Sampled:	05/09/24 12:10	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 05:48
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0506	70.0	30 - 120	
Decachlorobiphenyl	0.0723	0.0593	82.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	P1145622.D
Sampled:	05/09/24 12:15	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 06:01
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0546	75.5	30 - 120	
Decachlorobiphenyl	0.0723	0.0683	94.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	P1145623.D
Sampled:	05/09/24 12:20	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 06:15
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0571	79.0	30 - 120	
Decachlorobiphenyl	0.0723	0.0669	92.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	P1145624.D
Sampled:	05/09/24 12:28	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 06:29
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0706	0.0554	78.5	30 - 120	
Decachlorobiphenyl	0.0706	0.0639	90.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	P1145625.D
Sampled:	05/09/24 12:32	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 06:43
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0622	86.0	30 - 120	
Decachlorobiphenyl	0.0723	0.0712	98.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-24

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-06	File ID:	P1145626.D
Sampled:	05/09/24 12:40	Prepared:	05/10/24 08:40	Analyzed:	05/11/24 06:56
Solids:	91.93	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 10 mL
Batch:	BE40710	Sequence:	S4E1333	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0706	0.0586	83.0	30 - 120	
Decachlorobiphenyl	0.0706	0.0657	93.0	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-01

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-01 File ID: QBICP2-051424ARE_1-017

Sampled: 05/09/24 12:10 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 13:47

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	7440	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.74	1		EPA 6010D
7440-39-3	Barium	46.1	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	2970	1		EPA 6010D
7440-47-3	Chromium	12.5	1		EPA 6010D
7440-48-4	Cobalt	5.01	1		EPA 6010D
7440-50-8	Copper	15.8	1		EPA 6010D
7439-89-6	Iron	11000	1		EPA 6010D
7439-92-1	Lead	5.60	1		EPA 6010D
7439-95-4	Magnesium	1820	1		EPA 6010D
7439-96-5	Manganese	323	1		EPA 6010D
7440-02-0	Nickel	10.7	1		EPA 6010D
7440-09-7	Potassium	910	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	51.4	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	18.3	1		EPA 6010D
7440-66-6	Zinc	23.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-02

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-02 File ID: QBICP2-051424ARE_1-018

Sampled: 05/09/24 12:15 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 13:50

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6790	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.59	1		EPA 6010D
7440-39-3	Barium	41.4	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	1060	1		EPA 6010D
7440-47-3	Chromium	18.7	1		EPA 6010D
7440-48-4	Cobalt	6.10	1		EPA 6010D
7440-50-8	Copper	16.1	1		EPA 6010D
7439-89-6	Iron	10400	1		EPA 6010D
7439-92-1	Lead	4.51	1		EPA 6010D
7439-95-4	Magnesium	2000	1		EPA 6010D
7439-96-5	Manganese	275	1		EPA 6010D
7440-02-0	Nickel	11.4	1		EPA 6010D
7440-09-7	Potassium	859	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	61.7	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	19.7	1		EPA 6010D
7440-66-6	Zinc	20.0	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-03

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-03 File ID: QBICP2-051424ARE_1-021

Sampled: 05/09/24 12:20 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 13:59

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5300	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.44	1		EPA 6010D
7440-39-3	Barium	32.0	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	1150	1		EPA 6010D
7440-47-3	Chromium	11.8	1		EPA 6010D
7440-48-4	Cobalt	3.95	1		EPA 6010D
7440-50-8	Copper	13.6	1		EPA 6010D
7439-89-6	Iron	9420	1		EPA 6010D
7439-92-1	Lead	5.16	1		EPA 6010D
7439-95-4	Magnesium	1790	1		EPA 6010D
7439-96-5	Manganese	211	1		EPA 6010D
7440-02-0	Nickel	7.99	1		EPA 6010D
7440-09-7	Potassium	766	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	53.7	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	15.7	1		EPA 6010D
7440-66-6	Zinc	19.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-22

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-04 File ID: QBICP2-051424ARE_1-022

Sampled: 05/09/24 12:28 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 14:02

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5240	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.53	1		EPA 6010D
7440-39-3	Barium	38.6	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	712	1		EPA 6010D
7440-47-3	Chromium	12.6	1		EPA 6010D
7440-48-4	Cobalt	4.42	1		EPA 6010D
7440-50-8	Copper	13.2	1		EPA 6010D
7439-89-6	Iron	9780	1		EPA 6010D
7439-92-1	Lead	4.34	1		EPA 6010D
7439-95-4	Magnesium	1700	1		EPA 6010D
7439-96-5	Manganese	307	1		EPA 6010D
7440-02-0	Nickel	8.93	1		EPA 6010D
7440-09-7	Potassium	750	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	45.3	1	U	EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	17.0	1		EPA 6010D
7440-66-6	Zinc	19.6	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-05 File ID: QBICP2-051424ARE_1-023

Sampled: 05/09/24 12:32 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 14:05

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5660	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	2.04	1		EPA 6010D
7440-39-3	Barium	44.2	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	778	1		EPA 6010D
7440-47-3	Chromium	14.3	1		EPA 6010D
7440-48-4	Cobalt	6.38	1		EPA 6010D
7440-50-8	Copper	13.9	1		EPA 6010D
7439-89-6	Iron	10700	1		EPA 6010D
7439-92-1	Lead	4.79	1		EPA 6010D
7439-95-4	Magnesium	1860	1		EPA 6010D
7439-96-5	Manganese	448	1		EPA 6010D
7440-02-0	Nickel	10.9	1		EPA 6010D
7440-09-7	Potassium	859	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	45.3	1	U	EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	16.6	1		EPA 6010D
7440-66-6	Zinc	22.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-24

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-06 File ID: QBICP2-051424ARE_1-024

Sampled: 05/09/24 12:40 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 14:07

Solids: 91.93 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1440 Calibration: 05/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5570	1	J+	EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.45	1		EPA 6010D
7440-39-3	Barium	36.1	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	882	1	J	EPA 6010D
7440-47-3	Chromium	14.6	1		EPA 6010D
7440-48-4	Cobalt	4.87	1		EPA 6010D
7440-50-8	Copper	13.6	1		EPA 6010D
7439-89-6	Iron	10500	1	J	EPA 6010D
7439-92-1	Lead	4.92	1		EPA 6010D
7439-95-4	Magnesium	1620	1	J	EPA 6010D
7439-96-5	Manganese	244	1	J	EPA 6010D
7440-02-0	Nickel	9.47	1		EPA 6010D
7440-09-7	Potassium	824	1	J	EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U R	EPA 6010D
7440-23-5	Sodium	61.2	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	17.5	1		EPA 6010D
7440-66-6	Zinc	20.6	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-01

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-01	File ID:	QBHg DMA 80-03 051324a
Sampled:	05/09/24 12:10	Prepared:	05/13/24 08:46	Analyzed:	05/14/24 15:34
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40835	Sequence:	S4E1343	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-02

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-02	File ID:	QBHg DMA 80-03 051324a
Sampled:	05/09/24 12:15	Prepared:	05/13/24 08:46	Analyzed:	05/14/24 15:34
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40835	Sequence:	S4E1343	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-03

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-03	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/09/24 12:20	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-22

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-04	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/09/24 12:28	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-23

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-05	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/09/24 12:32	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-24

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0628
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0628-06	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/09/24 12:40	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	91.93	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-01

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-01 File ID:

Sampled: 05/09/24 12:10 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-02

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-02 File ID:

Sampled: 05/09/24 12:15 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-03

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-03 File ID:

Sampled: 05/09/24 12:20 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-22

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-04 File ID:

Sampled: 05/09/24 12:28 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-05 File ID:

Sampled: 05/09/24 12:32 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-24

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0628

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0628-06 File ID:

Sampled: 05/09/24 12:40 Prepared: 05/13/24 07:37 Analyzed: 05/13/24 10:52

Solids: 91.93 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40801 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/12/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24E0628

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 09, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E0628-01	EP-01	Soil	05/09/2024	05/09/2024
24E0628-02	EP-02	Soil	05/09/2024	05/09/2024
24E0628-03	EP-03	Soil	05/09/2024	05/09/2024
24E0628-04	EP-22	Soil	05/09/2024	05/09/2024
24E0628-05	EP-23	Soil	05/09/2024	05/09/2024
24E0628-06	EP-24	Soil	05/09/2024	05/09/2024

Work Order Narrative

York Analytical Work Order No.: 24E0628

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/09/2024 7:55 PM

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.2}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-01	24E0628-01	Soil	05/09/2024 12:10 PM	05/09/2024 7:55 PM
EP-02	24E0628-02	Soil	05/09/2024 12:15 PM	05/09/2024 7:55 PM
EP-03	24E0628-03	Soil	05/09/2024 12:20 PM	05/09/2024 7:55 PM
EP-22	24E0628-04	Soil	05/09/2024 12:28 PM	05/09/2024 7:55 PM
EP-23	24E0628-05	Soil	05/09/2024 12:32 PM	05/09/2024 7:55 PM
EP-24	24E0628-06	Soil	05/09/2024 12:40 PM	05/09/2024 7:55 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 246628

Page 1 of 1

Report To:	Invoice To:
Company: Yu & Associates	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:
Phone.: 201-873-7543	Phone.:
Contact: Chengyu Hang	Contact:
E-mail: Chang@yu-associates.com	E-mail:

YOUR Project Name / Number: 22254 43-25 52nd St

PO Number: 22254

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) MATTHEW O'ROURKE

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil
Other

Samples Collected From: NY ✓ NJ CT PA Other: (please specify)

Preservative (please list number of containers)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TAL VOCs	TCL SVOCs	Pesticides/PCBs	TAL Metals	Grab or Comp. G/C
EP-01	5/9/24	12:10	S	4		1								✓	✓	✓	✓	
EP-02		12:15		4		1								✓	✓	✓	✓	
EP-03		12:20		4		1								✓	✓	✓	✓	
EP-22		12:28		4		1								✓	✓	✓	✓	
EP-23		12:32		4		1								✓	✓	✓	✓	
EP-24	↓	12:40	↓	4		1								✓	✓	✓	✓	

Turn-Around Time
- RUSH - Next Day ✓
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day)
- PFAS Standard 7-10 Day

Report Type (circle)
- QA Report
- Summary (Results Only)
- NY ASP B Package
- NJ Reduced
- NJ DKQP
- NJ Full
- CT RCP

EDD Type (circle)
- EQuIS (standard)
- NYSDEC EQuIS
- NJDEP SRP Haz Site
- Standard Excel
- CMDP
- Other:

Regulatory Comparative
Compared to the following Regulation(s): (please fill in)

- Field Filtered
- Lab Filtered

Comments: RUSH turn-around time for metals and VOCs only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke Yu & Associates	5/9/24 14:10	Richard Ell	5/9/24 1420	Richard Ell	5/9/24 1410
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time
Ramon Duran	5/9/24 1420	Ramon Duran	5/9/24 19:55		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					5/9/24 19:55 3.2 Degrees C

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DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E0760

Sampling Date: May 10, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E0760
Date: August 27, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-7	24E0760-01	Soil	X	X	X
EP-28	24E0760-02	Soil	X	X	X
EP-8	24E0760-03	Soil	X	X	X
EP-29	24E0760-04	Soil	X	X	X
TB-051024	24E0760-05	Water	X		

The sample delivery group (SDG) contained results for four soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 7473B (Mercury - Soils); The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA – The percent difference (%D) in the initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following

qualifications;

Sample ID	Compound	Qualifier
24E0760-01, 24E0760-03, 24E0760-04	Acetone Tetrachloroethylene	UJ
24E0760-02	Acetone	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0760-01 to 24E0760-04	Dichlorodifluoromethane	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0760-01 to 24E0760-04	2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Nitrophenol 4,6-Dinitro-2-methylphenol Benzoic Acid Bis(2-chloroisopropyl)ether Di-n-octyl phthalate Hexachlorocyclopentadiene	UJ

Pest - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0760-01 to 24E0760-04	gamma-Chlordane	UJ

7. Laboratory Control Sample (LCS): The results are acceptable.

8. Surrogates: The results were acceptable.

9. Internal Standards: There were no deficiencies.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Not applicable.

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.

12. Field Duplicate: Not applicable.

13. Compound Identification/Quantitation: The results are acceptable

14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: V11C017159.D

Sampled: 05/10/24 10:30 Prepared: 05/12/24 09:00 Analyzed: 05/12/24 18:26

Solids: 92.18 Preparation: EPA 5035A Initial/Final: 5.86 g / 5 ml

Batch: BE40790 Sequence: S4E1320 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.093	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.0093	U J
107-02-8	Acrolein	1	0.0093	U
107-13-1	Acrylonitrile	1	0.0046	U
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U
75-15-0	Carbon disulfide	1	0.0046	U
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: V11C017159.D

Sampled: 05/10/24 10:30 Prepared: 05/12/24 09:00 Analyzed: 05/12/24 18:26

Solids: 92.18 Preparation: EPA 5035A Initial/Final: 5.86 g / 5 ml

Batch: BE40790 Sequence: S4E1320 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U J
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0093	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0093	U
99-87-6	p-Isopropyltoluene	1	0.0046	U
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0046	U J
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.5	99.0	77 - 125	
SURR: Toluene-d8	50.0	46.1	92.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	46.6	93.2	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	470230	6.053	524048	6.055	
ISTD: Chlorobenzene-d5	1974158	9.101	2222102	9.102	
ISTD: 1,2-Dichlorobenzene-d4	854545	12.099	1075104	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	V11C017160.D
Sampled:	05/10/24 10:35	Prepared:	05/12/24 09:00	Analyzed:	05/12/24 18:52
Solids:	92.51	Preparation:	EPA 5035A	Initial/Final:	5.28 g / 5 ml
Batch:	BE40790	Sequence:	S4E1320	Calibration:	SD40040
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U
71-55-6	1,1,1-Trichloroethane	1	0.0051	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U
79-00-5	1,1,2-Trichloroethane	1	0.0051	U
75-34-3	1,1-Dichloroethane	1	0.0051	U
75-35-4	1,1-Dichloroethylene	1	0.0051	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U
96-18-4	1,2,3-Trichloropropane	1	0.0051	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0051	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U
106-93-4	1,2-Dibromoethane	1	0.0051	U
95-50-1	1,2-Dichlorobenzene	1	0.0051	U
107-06-2	1,2-Dichloroethane	1	0.0051	U
78-87-5	1,2-Dichloropropane	1	0.0051	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0051	U
541-73-1	1,3-Dichlorobenzene	1	0.0051	U
106-46-7	1,4-Dichlorobenzene	1	0.0051	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0051	U
591-78-6	2-Hexanone	1	0.0051	U
108-10-1	4-Methyl-2-pentanone	1	0.0051	U
67-64-1	Acetone	1	0.010	U J
107-02-8	Acrolein	1	0.010	U
107-13-1	Acrylonitrile	1	0.0051	U
71-43-2	Benzene	1	0.0051	U
74-97-5	Bromochloromethane	1	0.0051	U
75-27-4	Bromodichloromethane	1	0.0051	U
75-25-2	Bromoform	1	0.0051	U
74-83-9	Bromomethane	1	0.0051	U
75-15-0	Carbon disulfide	1	0.0051	U
56-23-5	Carbon tetrachloride	1	0.0051	U
108-90-7	Chlorobenzene	1	0.0051	U
75-00-3	Chloroethane	1	0.0051	U
67-66-3	Chloroform	1	0.0051	U
74-87-3	Chloromethane	1	0.0051	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U
110-82-7	Cyclohexane	1	0.0051	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-28

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-02 File ID: V11C017160.D

Sampled: 05/10/24 10:35 Prepared: 05/12/24 09:00 Analyzed: 05/12/24 18:52

Solids: 92.51 Preparation: EPA 5035A Initial/Final: 5.28 g / 5 ml

Batch: BE40790 Sequence: S4E1320 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0051	U
74-95-3	Dibromomethane	1	0.0051	U
75-71-8	Dichlorodifluoromethane	1	0.0051	U J
100-41-4	Ethyl Benzene	1	0.0051	U
87-68-3	Hexachlorobutadiene	1	0.0051	U
98-82-8	Isopropylbenzene	1	0.0051	U
79-20-9	Methyl acetate	1	0.0051	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U
108-87-2	Methylcyclohexane	1	0.0051	U
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0051	U
103-65-1	n-Propylbenzene	1	0.0051	U
95-47-6	o-Xylene	1	0.0051	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0051	U
135-98-8	sec-Butylbenzene	1	0.0051	U
100-42-5	Styrene	1	0.0051	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U
98-06-6	tert-Butylbenzene	1	0.0051	U
127-18-4	Tetrachloroethylene	1	0.0029	J
108-88-3	Toluene	1	0.0051	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U
79-01-6	Trichloroethylene	1	0.0051	U
75-69-4	Trichlorofluoromethane	1	0.0051	U
75-01-4	Vinyl Chloride	1	0.0051	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.6	99.2	77 - 125	
SURR: Toluene-d8	50.0	46.2	92.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	47.3	94.6	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	467988	6.055	524048	6.055	
ISTD: Chlorobenzene-d5	1981368	9.101	2222102	9.102	
ISTD: 1,2-Dichlorobenzene-d4	848216	12.099	1075104	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	V11C017161.D
Sampled:	05/10/24 10:40	Prepared:	05/12/24 09:00	Analyzed:	05/12/24 19:18
Solids:	92.66	Preparation:	EPA 5035A	Initial/Final:	4.99 g / 5 ml
Batch:	BE40790	Sequence:	S4E1320	Calibration:	SD40040
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0054	U
71-55-6	1,1,1-Trichloroethane	1	0.0054	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0054	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0054	U
79-00-5	1,1,2-Trichloroethane	1	0.0054	U
75-34-3	1,1-Dichloroethane	1	0.0054	U
75-35-4	1,1-Dichloroethylene	1	0.0054	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0054	U
96-18-4	1,2,3-Trichloropropane	1	0.0054	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0054	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0054	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0054	U
106-93-4	1,2-Dibromoethane	1	0.0054	U
95-50-1	1,2-Dichlorobenzene	1	0.0054	U
107-06-2	1,2-Dichloroethane	1	0.0054	U
78-87-5	1,2-Dichloropropane	1	0.0054	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0054	U
541-73-1	1,3-Dichlorobenzene	1	0.0054	U
106-46-7	1,4-Dichlorobenzene	1	0.0054	U
123-91-1	1,4-Dioxane	1	0.11	U
78-93-3	2-Butanone	1	0.0054	U
591-78-6	2-Hexanone	1	0.0054	U
108-10-1	4-Methyl-2-pentanone	1	0.0054	U
67-64-1	Acetone	1	0.011	U J
107-02-8	Acrolein	1	0.011	U
107-13-1	Acrylonitrile	1	0.0054	U
71-43-2	Benzene	1	0.0054	U
74-97-5	Bromochloromethane	1	0.0054	U
75-27-4	Bromodichloromethane	1	0.0054	U
75-25-2	Bromoform	1	0.0054	U
74-83-9	Bromomethane	1	0.0054	U
75-15-0	Carbon disulfide	1	0.0054	U
56-23-5	Carbon tetrachloride	1	0.0054	U
108-90-7	Chlorobenzene	1	0.0054	U
75-00-3	Chloroethane	1	0.0054	U
67-66-3	Chloroform	1	0.0054	U
74-87-3	Chloromethane	1	0.0054	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0054	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0054	U
110-82-7	Cyclohexane	1	0.0054	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-03 File ID: V11C017161.D

Sampled: 05/10/24 10:40 Prepared: 05/12/24 09:00 Analyzed: 05/12/24 19:18

Solids: 92.66 Preparation: EPA 5035A Initial/Final: 4.99 g / 5 ml

Batch: BE40790 Sequence: S4E1320 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0054	U
74-95-3	Dibromomethane	1	0.0054	U
75-71-8	Dichlorodifluoromethane	1	0.0054	U J
100-41-4	Ethyl Benzene	1	0.0054	U
87-68-3	Hexachlorobutadiene	1	0.0054	U
98-82-8	Isopropylbenzene	1	0.0054	U
79-20-9	Methyl acetate	1	0.0054	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0054	U
108-87-2	Methylcyclohexane	1	0.0054	U
75-09-2	Methylene chloride	1	0.011	U
104-51-8	n-Butylbenzene	1	0.0054	U
103-65-1	n-Propylbenzene	1	0.0054	U
95-47-6	o-Xylene	1	0.0054	U
179601-23-1	p- & m- Xylenes	1	0.011	U
99-87-6	p-Isopropyltoluene	1	0.0054	U
135-98-8	sec-Butylbenzene	1	0.0054	U
100-42-5	Styrene	1	0.0054	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0054	U
98-06-6	tert-Butylbenzene	1	0.0054	U
127-18-4	Tetrachloroethylene	1	0.0054	U J
108-88-3	Toluene	1	0.0054	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0054	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0054	U
79-01-6	Trichloroethylene	1	0.0054	U
75-69-4	Trichlorofluoromethane	1	0.0054	U
75-01-4	Vinyl Chloride	1	0.0054	U
1330-20-7	Xylenes, Total	1	0.016	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.0	97.9	77 - 125	
SURR: Toluene-d8	50.0	46.1	92.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	47.1	94.1	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	471221	6.055	524048	6.055	
ISTD: Chlorobenzene-d5	1945584	9.101	2222102	9.102	
ISTD: 1,2-Dichlorobenzene-d4	834708	12.1	1075104	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-29

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-04	File ID:	V11C017162.D
Sampled:	05/10/24 10:45	Prepared:	05/12/24 09:00	Analyzed:	05/12/24 19:44
Solids:	92.66	Preparation:	EPA 5035A	Initial/Final:	5.14 g / 5 ml
Batch:	BE40790	Sequence:	S4E1320	Calibration:	SD40040
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0052	U
71-55-6	1,1,1-Trichloroethane	1	0.0052	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0052	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0052	U
79-00-5	1,1,2-Trichloroethane	1	0.0052	U
75-34-3	1,1-Dichloroethane	1	0.0052	U
75-35-4	1,1-Dichloroethylene	1	0.0052	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0052	U
96-18-4	1,2,3-Trichloropropane	1	0.0052	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0052	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0052	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0052	U
106-93-4	1,2-Dibromoethane	1	0.0052	U
95-50-1	1,2-Dichlorobenzene	1	0.0052	U
107-06-2	1,2-Dichloroethane	1	0.0052	U
78-87-5	1,2-Dichloropropane	1	0.0052	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0052	U
541-73-1	1,3-Dichlorobenzene	1	0.0052	U
106-46-7	1,4-Dichlorobenzene	1	0.0052	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0052	U
591-78-6	2-Hexanone	1	0.0052	U
108-10-1	4-Methyl-2-pentanone	1	0.0052	U
67-64-1	Acetone	1	0.010	U J
107-02-8	Acrolein	1	0.010	U
107-13-1	Acrylonitrile	1	0.0052	U
71-43-2	Benzene	1	0.0052	U
74-97-5	Bromochloromethane	1	0.0052	U
75-27-4	Bromodichloromethane	1	0.0052	U
75-25-2	Bromoform	1	0.0052	U
74-83-9	Bromomethane	1	0.0052	U
75-15-0	Carbon disulfide	1	0.0052	U
56-23-5	Carbon tetrachloride	1	0.0052	U
108-90-7	Chlorobenzene	1	0.0052	U
75-00-3	Chloroethane	1	0.0052	U
67-66-3	Chloroform	1	0.0052	U
74-87-3	Chloromethane	1	0.0052	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0052	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0052	U
110-82-7	Cyclohexane	1	0.0052	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID: V11C017162.D

Sampled: 05/10/24 10:45 Prepared: 05/12/24 09:00 Analyzed: 05/12/24 19:44

Solids: 92.66 Preparation: EPA 5035A Initial/Final: 5.14 g / 5 ml

Batch: BE40790 Sequence: S4E1320 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0052	U
74-95-3	Dibromomethane	1	0.0052	U
75-71-8	Dichlorodifluoromethane	1	0.0052	U J
100-41-4	Ethyl Benzene	1	0.0052	U
87-68-3	Hexachlorobutadiene	1	0.0052	U
98-82-8	Isopropylbenzene	1	0.0052	U
79-20-9	Methyl acetate	1	0.0052	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0052	U
108-87-2	Methylcyclohexane	1	0.0052	U
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0052	U
103-65-1	n-Propylbenzene	1	0.0052	U
95-47-6	o-Xylene	1	0.0052	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0052	U
135-98-8	sec-Butylbenzene	1	0.0052	U
100-42-5	Styrene	1	0.0052	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0052	U
98-06-6	tert-Butylbenzene	1	0.0052	U
127-18-4	Tetrachloroethylene	1	0.0052	U J
108-88-3	Toluene	1	0.0052	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0052	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0052	U
79-01-6	Trichloroethylene	1	0.0052	U
75-69-4	Trichlorofluoromethane	1	0.0052	U
75-01-4	Vinyl Chloride	1	0.0052	U
1330-20-7	Xylenes, Total	1	0.016	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.6	97.3	77 - 125	
SURR: Toluene-d8	50.0	46.6	93.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	46.1	92.2	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	470392	6.054	524048	6.055	
ISTD: Chlorobenzene-d5	1934991	9.101	2222102	9.102	
ISTD: 1,2-Dichlorobenzene-d4	840327	12.099	1075104	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_051024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Water	Laboratory ID:	24E0760-05	File ID:	V10C04753.D
Sampled:	05/10/24 10:45	Prepared:	05/14/24 08:00	Analyzed:	05/14/24 11:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40845	Sequence:	S4E1507	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_051024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Water	Laboratory ID:	24E0760-05	File ID:	V10C04753.D
Sampled:	05/10/24 10:45	Prepared:	05/14/24 08:00	Analyzed:	05/14/24 11:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40845	Sequence:	S4E1507	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.60	96.0	69 - 130	
SURR: Toluene-d8	10.0	9.67	96.7	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.12	91.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	470680	6.428	482190	6.428	
ISTD: Chlorobenzene-d5	1679572	9.489	1734423	9.492	
ISTD: 1,2-Dichlorobenzene-d4	575066	12.508	590721	12.508	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: E900321191.D

Sampled: 05/10/24 10:30 Prepared: 05/14/24 09:42 Analyzed: 05/15/24 11:37

Solids: 92.18 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BE40932 Sequence: S4E1660 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0881	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.176	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0881	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.176	U
95-95-4	2,4,5-Trichlorophenol	2	0.0881	U
88-06-2	2,4,6-Trichlorophenol	2	0.0881	U
120-83-2	2,4-Dichlorophenol	2	0.0881	U
105-67-9	2,4-Dimethylphenol	2	0.0881	U
51-28-5	2,4-Dinitrophenol	2	0.176	U J
121-14-2	2,4-Dinitrotoluene	2	0.0881	U J
606-20-2	2,6-Dinitrotoluene	2	0.0881	U J
91-58-7	2-Chloronaphthalene	2	0.0881	U
95-57-8	2-Chlorophenol	2	0.0881	U
91-57-6	2-Methylnaphthalene	2	0.0881	U
95-48-7	2-Methylphenol	2	0.0881	U
88-74-4	2-Nitroaniline	2	0.176	U
88-75-5	2-Nitrophenol	2	0.0881	U J
65794-96-9	3- & 4-Methylphenols	2	0.0881	U
91-94-1	3,3-Dichlorobenzidine	2	0.0881	U
99-09-2	3-Nitroaniline	2	0.176	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.176	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0881	U
59-50-7	4-Chloro-3-methylphenol	2	0.0881	U
106-47-8	4-Chloroaniline	2	0.0881	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0881	U
100-01-6	4-Nitroaniline	2	0.176	U
100-02-7	4-Nitrophenol	2	0.176	U
83-32-9	Acenaphthene	2	0.0881	U
208-96-8	Acenaphthylene	2	0.0881	U
98-86-2	Acetophenone	2	0.0881	U
62-53-3	Aniline	2	0.353	U
120-12-7	Anthracene	2	0.0881	U
1912-24-9	Atrazine	2	0.0881	U
100-52-7	Benzaldehyde	2	0.0881	U
92-87-5	Benzidine	2	0.353	U
56-55-3	Benzo(a)anthracene	2	0.0881	U
50-32-8	Benzo(a)pyrene	2	0.0881	U
205-99-2	Benzo(b)fluoranthene	2	0.0881	U
191-24-2	Benzo(g,h,i)perylene	2	0.0881	U
207-08-9	Benzo(k)fluoranthene	2	0.0881	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: E900321191.D

Sampled: 05/10/24 10:30 Prepared: 05/14/24 09:42 Analyzed: 05/15/24 11:37

Solids: 92.18 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BE40932 Sequence: S4E1660 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0881	U J
100-51-6	Benzyl alcohol	2	0.0881	U
85-68-7	Benzyl butyl phthalate	2	0.0881	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0881	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0881	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0881	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0881	U
105-60-2	Caprolactam	2	0.176	U
86-74-8	Carbazole	2	0.0881	U
218-01-9	Chrysene	2	0.0881	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0881	U
132-64-9	Dibenzofuran	2	0.0881	U
84-66-2	Diethyl phthalate	2	0.0881	U
131-11-3	Dimethyl phthalate	2	0.0881	U
84-74-2	Di-n-butyl phthalate	2	0.0881	U
117-84-0	Di-n-octyl phthalate	2	0.0881	U J
122-39-4	Diphenylamine	2	0.176	U
206-44-0	Fluoranthene	2	0.0881	U
86-73-7	Fluorene	2	0.0881	U
118-74-1	Hexachlorobenzene	2	0.0881	U
87-68-3	Hexachlorobutadiene	2	0.0881	U
77-47-4	Hexachlorocyclopentadiene	2	0.0881	U J
67-72-1	Hexachloroethane	2	0.0881	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0881	U
78-59-1	Isophorone	2	0.0881	U
91-20-3	Naphthalene	2	0.0881	U
98-95-3	Nitrobenzene	2	0.0881	U
62-75-9	N-Nitrosodimethylamine	2	0.0881	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0881	U
86-30-6	N-Nitrosodiphenylamine	2	0.0881	U
87-86-5	Pentachlorophenol	2	0.0881	U
85-01-8	Phenanthrene	2	0.0881	U
108-95-2	Phenol	2	0.0881	U
129-00-0	Pyrene	2	0.0881	U
110-86-1	Pyridine	2	0.353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.76	1.10	62.6	20 - 108	
SURR: Phenol-d6	1.76	1.01	57.6	23 - 114	
SURR: Nitrobenzene-d5	0.881	0.642	72.9	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-01	File ID:	E900321191.D
Sampled:	05/10/24 10:30	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 11:37
Solids:	92.18	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.881	0.527	59.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.76	1.18	66.7	19 - 110	
SURR: Terphenyl-d14	0.881	0.552	62.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	338573	5.441	400019	5.441	
ISTD: Naphthalene-d8	1469377	6.539	2036225	6.539	
ISTD: Acenaphthene-d10	840007	8.405	1112478	8.405	
ISTD: Phenanthrene-d10	1123838	10.258	1510040	10.27	
ISTD: Chrysene-d12	912519	15.094	1178090	15.111	
ISTD: Perylene-d12	1128486	18.133	1410785	18.145	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	E900321192.D
Sampled:	05/10/24 10:35	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:06
Solids:	92.51	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0899	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.179	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0899	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.179	U
95-95-4	2,4,5-Trichlorophenol	2	0.0899	U
88-06-2	2,4,6-Trichlorophenol	2	0.0899	U
120-83-2	2,4-Dichlorophenol	2	0.0899	U
105-67-9	2,4-Dimethylphenol	2	0.0899	U
51-28-5	2,4-Dinitrophenol	2	0.179	U J
121-14-2	2,4-Dinitrotoluene	2	0.0899	U J
606-20-2	2,6-Dinitrotoluene	2	0.0899	U J
91-58-7	2-Chloronaphthalene	2	0.0899	U
95-57-8	2-Chlorophenol	2	0.0899	U
91-57-6	2-Methylnaphthalene	2	0.0899	U
95-48-7	2-Methylphenol	2	0.0899	U
88-74-4	2-Nitroaniline	2	0.179	U
88-75-5	2-Nitrophenol	2	0.0899	U J
65794-96-9	3- & 4-Methylphenols	2	0.0899	U
91-94-1	3,3-Dichlorobenzidine	2	0.0899	U
99-09-2	3-Nitroaniline	2	0.179	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.179	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0899	U
59-50-7	4-Chloro-3-methylphenol	2	0.0899	U
106-47-8	4-Chloroaniline	2	0.0899	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0899	U
100-01-6	4-Nitroaniline	2	0.179	U
100-02-7	4-Nitrophenol	2	0.179	U
83-32-9	Acenaphthene	2	0.0899	U
208-96-8	Acenaphthylene	2	0.0899	U
98-86-2	Acetophenone	2	0.0899	U
62-53-3	Aniline	2	0.360	U
120-12-7	Anthracene	2	0.0899	U
1912-24-9	Atrazine	2	0.0899	U
100-52-7	Benzaldehyde	2	0.0899	U
92-87-5	Benzidine	2	0.360	U
56-55-3	Benzo(a)anthracene	2	0.0899	U
50-32-8	Benzo(a)pyrene	2	0.0899	U
205-99-2	Benzo(b)fluoranthene	2	0.0899	U
191-24-2	Benzo(g,h,i)perylene	2	0.0899	U
207-08-9	Benzo(k)fluoranthene	2	0.0899	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	E900321192.D
Sampled:	05/10/24 10:35	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:06
Solids:	92.51	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0899	U J
100-51-6	Benzyl alcohol	2	0.0899	U
85-68-7	Benzyl butyl phthalate	2	0.0899	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0899	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0899	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0899	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0899	U
105-60-2	Caprolactam	2	0.179	U
86-74-8	Carbazole	2	0.0899	U
218-01-9	Chrysene	2	0.0899	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0899	U
132-64-9	Dibenzofuran	2	0.0899	U
84-66-2	Diethyl phthalate	2	0.0899	U
131-11-3	Dimethyl phthalate	2	0.0899	U
84-74-2	Di-n-butyl phthalate	2	0.0899	U
117-84-0	Di-n-octyl phthalate	2	0.0899	U J
122-39-4	Diphenylamine	2	0.179	U
206-44-0	Fluoranthene	2	0.0899	U
86-73-7	Fluorene	2	0.0899	U
118-74-1	Hexachlorobenzene	2	0.0899	U
87-68-3	Hexachlorobutadiene	2	0.0899	U
77-47-4	Hexachlorocyclopentadiene	2	0.0899	U J
67-72-1	Hexachloroethane	2	0.0899	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0899	U
78-59-1	Isophorone	2	0.0899	U
91-20-3	Naphthalene	2	0.0899	U
98-95-3	Nitrobenzene	2	0.0899	U
62-75-9	N-Nitrosodimethylamine	2	0.0899	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0899	U
86-30-6	N-Nitrosodiphenylamine	2	0.0899	U
87-86-5	Pentachlorophenol	2	0.0899	U
85-01-8	Phenanthrene	2	0.0899	U
108-95-2	Phenol	2	0.0899	U
129-00-0	Pyrene	2	0.0899	U
110-86-1	Pyridine	2	0.360	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.28	71.3	20 - 108	
SURR: Phenol-d6	1.80	1.15	63.9	23 - 114	
SURR: Nitrobenzene-d5	0.898	0.733	81.7	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	E900321192.D
Sampled:	05/10/24 10:35	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:06
Solids:	92.51	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.898	0.602	67.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.36	75.7	19 - 110	
SURR: Terphenyl-d14	0.898	0.644	71.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	322694	5.441	400019	5.441	
ISTD: Naphthalene-d8	1406491	6.534	2036225	6.539	
ISTD: Acenaphthene-d10	801634	8.399	1112478	8.405	
ISTD: Phenanthrene-d10	1069076	10.265	1510040	10.27	
ISTD: Chrysene-d12	900394	15.094	1178090	15.111	
ISTD: Perylene-d12	1095249	18.133	1410785	18.145	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	E900321193.D
Sampled:	05/10/24 10:40	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:36
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0891	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0891	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0891	U
88-06-2	2,4,6-Trichlorophenol	2	0.0891	U
120-83-2	2,4-Dichlorophenol	2	0.0891	U
105-67-9	2,4-Dimethylphenol	2	0.0891	U
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0891	U J
606-20-2	2,6-Dinitrotoluene	2	0.0891	U J
91-58-7	2-Chloronaphthalene	2	0.0891	U
95-57-8	2-Chlorophenol	2	0.0891	U
91-57-6	2-Methylnaphthalene	2	0.0891	U
95-48-7	2-Methylphenol	2	0.0891	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0891	U J
65794-96-9	3- & 4-Methylphenols	2	0.0891	U
91-94-1	3,3-Dichlorobenzidine	2	0.0891	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0891	U
59-50-7	4-Chloro-3-methylphenol	2	0.0891	U
106-47-8	4-Chloroaniline	2	0.0891	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0891	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U
83-32-9	Acenaphthene	2	0.0891	U
208-96-8	Acenaphthylene	2	0.0891	U
98-86-2	Acetophenone	2	0.0891	U
62-53-3	Aniline	2	0.357	U
120-12-7	Anthracene	2	0.0891	U
1912-24-9	Atrazine	2	0.0891	U
100-52-7	Benzaldehyde	2	0.0891	U
92-87-5	Benzidine	2	0.357	U
56-55-3	Benzo(a)anthracene	2	0.0891	U
50-32-8	Benzo(a)pyrene	2	0.0891	U
205-99-2	Benzo(b)fluoranthene	2	0.0891	U
191-24-2	Benzo(g,h,i)perylene	2	0.0891	U
207-08-9	Benzo(k)fluoranthene	2	0.0891	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	E900321193.D
Sampled:	05/10/24 10:40	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:36
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0891	U J
100-51-6	Benzyl alcohol	2	0.0891	U
85-68-7	Benzyl butyl phthalate	2	0.0891	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0891	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0891	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0891	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0891	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0891	U
218-01-9	Chrysene	2	0.0891	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0891	U
132-64-9	Dibenzofuran	2	0.0891	U
84-66-2	Diethyl phthalate	2	0.0891	U
131-11-3	Dimethyl phthalate	2	0.0891	U
84-74-2	Di-n-butyl phthalate	2	0.0891	U
117-84-0	Di-n-octyl phthalate	2	0.0891	U J
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0891	U
86-73-7	Fluorene	2	0.0891	U
118-74-1	Hexachlorobenzene	2	0.0891	U
87-68-3	Hexachlorobutadiene	2	0.0891	U
77-47-4	Hexachlorocyclopentadiene	2	0.0891	U J
67-72-1	Hexachloroethane	2	0.0891	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0891	U
78-59-1	Isophorone	2	0.0891	U
91-20-3	Naphthalene	2	0.0891	U
98-95-3	Nitrobenzene	2	0.0891	U
62-75-9	N-Nitrosodimethylamine	2	0.0891	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0891	U
86-30-6	N-Nitrosodiphenylamine	2	0.0891	U
87-86-5	Pentachlorophenol	2	0.0891	U
85-01-8	Phenanthrene	2	0.0891	U
108-95-2	Phenol	2	0.0891	U
129-00-0	Pyrene	2	0.0891	U
110-86-1	Pyridine	2	0.357	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.17	65.8	20 - 108	
SURR: Phenol-d6	1.78	1.14	64.3	23 - 114	
SURR: Nitrobenzene-d5	0.890	0.690	77.4	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	E900321193.D
Sampled:	05/10/24 10:40	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 12:36
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.890	0.578	65.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.26	71.0	19 - 110	
SURR: Terphenyl-d14	0.890	0.611	68.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	324494	5.441	400019	5.441	
ISTD: Naphthalene-d8	1434140	6.533	2036225	6.539	
ISTD: Acenaphthene-d10	815794	8.399	1112478	8.405	
ISTD: Phenanthrene-d10	1113327	10.259	1510040	10.27	
ISTD: Chrysene-d12	917170	15.094	1178090	15.111	
ISTD: Perylene-d12	1118043	18.133	1410785	18.145	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID: E900321194.D

Sampled: 05/10/24 10:45 Prepared: 05/14/24 09:42 Analyzed: 05/15/24 13:05

Solids: 92.66 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BE40932 Sequence: S4E1660 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0877	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.175	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0877	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.175	U
95-95-4	2,4,5-Trichlorophenol	2	0.0877	U
88-06-2	2,4,6-Trichlorophenol	2	0.0877	U
120-83-2	2,4-Dichlorophenol	2	0.0877	U
105-67-9	2,4-Dimethylphenol	2	0.0877	U
51-28-5	2,4-Dinitrophenol	2	0.175	U J
121-14-2	2,4-Dinitrotoluene	2	0.0877	U J
606-20-2	2,6-Dinitrotoluene	2	0.0877	U J
91-58-7	2-Chloronaphthalene	2	0.0877	U
95-57-8	2-Chlorophenol	2	0.0877	U
91-57-6	2-Methylnaphthalene	2	0.0877	U
95-48-7	2-Methylphenol	2	0.0877	U
88-74-4	2-Nitroaniline	2	0.175	U
88-75-5	2-Nitrophenol	2	0.0877	U J
65794-96-9	3- & 4-Methylphenols	2	0.0877	U
91-94-1	3,3-Dichlorobenzidine	2	0.0877	U
99-09-2	3-Nitroaniline	2	0.175	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.175	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0877	U
59-50-7	4-Chloro-3-methylphenol	2	0.0877	U
106-47-8	4-Chloroaniline	2	0.0877	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0877	U
100-01-6	4-Nitroaniline	2	0.175	U
100-02-7	4-Nitrophenol	2	0.175	U
83-32-9	Acenaphthene	2	0.0877	U
208-96-8	Acenaphthylene	2	0.0877	U
98-86-2	Acetophenone	2	0.0877	U
62-53-3	Aniline	2	0.351	U
120-12-7	Anthracene	2	0.0877	U
1912-24-9	Atrazine	2	0.0877	U
100-52-7	Benzaldehyde	2	0.0877	U
92-87-5	Benzidine	2	0.351	U
56-55-3	Benzo(a)anthracene	2	0.0877	U
50-32-8	Benzo(a)pyrene	2	0.0877	U
205-99-2	Benzo(b)fluoranthene	2	0.0877	U
191-24-2	Benzo(g,h,i)perylene	2	0.0877	U
207-08-9	Benzo(k)fluoranthene	2	0.0877	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID: E900321194.D

Sampled: 05/10/24 10:45 Prepared: 05/14/24 09:42 Analyzed: 05/15/24 13:05

Solids: 92.66 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BE40932 Sequence: S4E1660 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0877	U J
100-51-6	Benzyl alcohol	2	0.0877	U
85-68-7	Benzyl butyl phthalate	2	0.0877	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0877	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0877	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0877	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0877	U
105-60-2	Caprolactam	2	0.175	U
86-74-8	Carbazole	2	0.0877	U
218-01-9	Chrysene	2	0.0877	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0877	U
132-64-9	Dibenzofuran	2	0.0877	U
84-66-2	Diethyl phthalate	2	0.0877	U
131-11-3	Dimethyl phthalate	2	0.0877	U
84-74-2	Di-n-butyl phthalate	2	0.0877	U
117-84-0	Di-n-octyl phthalate	2	0.0877	U J
122-39-4	Diphenylamine	2	0.175	U
206-44-0	Fluoranthene	2	0.0877	U
86-73-7	Fluorene	2	0.0877	U
118-74-1	Hexachlorobenzene	2	0.0877	U
87-68-3	Hexachlorobutadiene	2	0.0877	U
77-47-4	Hexachlorocyclopentadiene	2	0.0877	U J
67-72-1	Hexachloroethane	2	0.0877	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0877	U
78-59-1	Isophorone	2	0.0877	U
91-20-3	Naphthalene	2	0.0877	U
98-95-3	Nitrobenzene	2	0.0877	U
62-75-9	N-Nitrosodimethylamine	2	0.0877	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0877	U
86-30-6	N-Nitrosodiphenylamine	2	0.0877	U
87-86-5	Pentachlorophenol	2	0.0877	U
85-01-8	Phenanthrene	2	0.0877	U
108-95-2	Phenol	2	0.0877	U
129-00-0	Pyrene	2	0.0877	U
110-86-1	Pyridine	2	0.351	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.75	1.20	68.5	20 - 108	
SURR: Phenol-d6	1.75	1.13	64.6	23 - 114	
SURR: Nitrobenzene-d5	0.876	0.707	80.7	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-29

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-04	File ID:	E900321194.D
Sampled:	05/10/24 10:45	Prepared:	05/14/24 09:42	Analyzed:	05/15/24 13:05
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BE40932	Sequence:	S4E1660	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.876	0.566	64.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.75	1.28	72.8	19 - 110	
SURR: Terphenyl-d14	0.876	0.604	69.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	350675	5.441	400019	5.441	
ISTD: Naphthalene-d8	1536047	6.539	2036225	6.539	
ISTD: Acenaphthene-d10	878710	8.399	1112478	8.405	
ISTD: Phenanthrene-d10	1194626	10.264	1510040	10.27	
ISTD: Chrysene-d12	976741	15.094	1178090	15.111	
ISTD: Perylene-d12	1184268	18.133	1410785	18.145	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: P7026956.D

Sampled: 05/10/24 10:30 Prepared: 05/15/24 08:46 Analyzed: 05/16/24 21:28

Solids: 92.18 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U J
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0714	0.0661	92.6	30 - 150	
Tetrachloro-m-xylene	0.0714	0.0644	90.2	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	P7026957.D
Sampled:	05/10/24 10:35	Prepared:	05/15/24 08:46	Analyzed:	05/16/24 21:45
Solids:	92.51	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BE41010	Sequence:	S4E1656	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00174	U
72-55-9	4,4'-DDE	5	0.00174	U
50-29-3	4,4'-DDT	5	0.00174	U
309-00-2	Aldrin	5	0.00174	U
319-84-6	alpha-BHC	5	0.00174	U
5103-71-9	alpha-Chlordane	5	0.00174	U
319-85-7	beta-BHC	5	0.00174	U
319-86-8	delta-BHC	5	0.00174	U
60-57-1	Dieldrin	5	0.00174	U
959-98-8	Endosulfan I	5	0.00174	U
33213-65-9	Endosulfan II	5	0.00174	U
1031-07-8	Endosulfan sulfate	5	0.00174	U
72-20-8	Endrin	5	0.00174	U
7421-93-4	Endrin aldehyde	5	0.00174	U
53494-70-5	Endrin ketone	5	0.00174	U
58-89-9	gamma-BHC (Lindane)	5	0.00174	U
5566-34-7	gamma-Chlordane	5	0.00174	U J
76-44-8	Heptachlor	5	0.00174	U
1024-57-3	Heptachlor epoxide	5	0.00174	U
72-43-5	Methoxychlor	5	0.00174	U
8001-35-2	Toxaphene	5	0.174	U
57-74-9	Chlordane, total	5	0.0349	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0704	0.0551	78.3	30 - 150	
Tetrachloro-m-xylene	0.0704	0.0539	76.6	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-03 File ID: P7026958.D

Sampled: 05/10/24 10:40 Prepared: 05/15/24 08:46 Analyzed: 05/16/24 22:02

Solids: 92.66 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00176	U
72-55-9	4,4'-DDE	5	0.00176	U
50-29-3	4,4'-DDT	5	0.00176	U
309-00-2	Aldrin	5	0.00176	U
319-84-6	alpha-BHC	5	0.00176	U
5103-71-9	alpha-Chlordane	5	0.00176	U
319-85-7	beta-BHC	5	0.00176	U
319-86-8	delta-BHC	5	0.00176	U
60-57-1	Dieldrin	5	0.00176	U
959-98-8	Endosulfan I	5	0.00176	U
33213-65-9	Endosulfan II	5	0.00176	U
1031-07-8	Endosulfan sulfate	5	0.00176	U
72-20-8	Endrin	5	0.00176	U
7421-93-4	Endrin aldehyde	5	0.00176	U
53494-70-5	Endrin ketone	5	0.00176	U
58-89-9	gamma-BHC (Lindane)	5	0.00176	U
5566-34-7	gamma-Chlordane	5	0.00176	U J
76-44-8	Heptachlor	5	0.00176	U
1024-57-3	Heptachlor epoxide	5	0.00176	U
72-43-5	Methoxychlor	5	0.00176	U
8001-35-2	Toxaphene	5	0.176	U
57-74-9	Chlordane, total	5	0.0353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0712	0.0582	81.7	30 - 150	
Tetrachloro-m-xylene	0.0712	0.0558	78.4	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID: P7026959.D

Sampled: 05/10/24 10:45 Prepared: 05/15/24 08:46 Analyzed: 05/16/24 22:19

Solids: 92.66 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	U J
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0350	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0708	0.0584	82.5	30 - 150	
Tetrachloro-m-xylene	0.0708	0.0563	79.5	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-01	File ID:	P1146084.D
Sampled:	05/10/24 10:30	Prepared:	05/15/24 08:46	Analyzed:	05/17/24 23:57
Solids:	92.18	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0714	0.0671	94.0	30 - 120	
Decachlorobiphenyl	0.0714	0.0617	86.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	P1146085.D
Sampled:	05/10/24 10:35	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 00:11
Solids:	92.51	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0176	U
11104-28-2	Aroclor 1221	1	0.0176	U
11141-16-5	Aroclor 1232	1	0.0176	U
53469-21-9	Aroclor 1242	1	0.0176	U
12672-29-6	Aroclor 1248	1	0.0176	U
11097-69-1	Aroclor 1254	1	0.0176	U
11096-82-5	Aroclor 1260	1	0.0176	U
1336-36-3	Total PCBs	1	0.0176	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0704	0.0532	75.5	30 - 120	
Decachlorobiphenyl	0.0704	0.0511	72.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	P1146086.D
Sampled:	05/10/24 10:40	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 00:24
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0712	0.0581	81.5	30 - 120	
Decachlorobiphenyl	0.0712	0.0591	83.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-29

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-04	File ID:	P1146087.D
Sampled:	05/10/24 10:45	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 00:38
Solids:	92.66	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0708	0.0563	79.5	30 - 120	
Decachlorobiphenyl	0.0708	0.0602	85.0	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID: QBICP2-051424RE_1-158

Sampled: 05/10/24 10:30 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 21:12

Solids: 92.18 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1527 Calibration: 05/14/24 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	96.4	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.36	1	U	EPA 6010D
7440-39-3	Barium	2.26	1	U	EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	169	1		EPA 6010D
7440-47-3	Chromium	0.452	1	U	EPA 6010D
7440-48-4	Cobalt	0.361	1	U	EPA 6010D
7440-50-8	Copper	1.81	1	U	EPA 6010D
7439-89-6	Iron	252	1		EPA 6010D
7439-92-1	Lead	0.452	1	U	EPA 6010D
7439-95-4	Magnesium	1050	1		EPA 6010D
7439-96-5	Manganese	0.452	1	U	EPA 6010D
7440-02-0	Nickel	0.900	1	U	EPA 6010D
7440-09-7	Potassium	4.52	1	U	EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.456	1	U	EPA 6010D
7440-23-5	Sodium	1290	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	0.900	1	U	EPA 6010D
7440-66-6	Zinc	2.25	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-28

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-02 File ID: QBICP2-051424RE_1-159

Sampled: 05/10/24 10:35 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 21:15

Solids: 92.51 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1527 Calibration: 05/14/24 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	380	1		EPA 6010D
7440-36-0	Antimony	2.25	1	U	EPA 6010D
7440-38-2	Arsenic	1.35	1	U	EPA 6010D
7440-39-3	Barium	2.25	1	U	EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	4.50	1	U	EPA 6010D
7440-47-3	Chromium	0.451	1	U	EPA 6010D
7440-48-4	Cobalt	0.360	1	U	EPA 6010D
7440-50-8	Copper	1.80	1	U	EPA 6010D
7439-89-6	Iron	22.5	1	U	EPA 6010D
7439-92-1	Lead	0.451	1	U	EPA 6010D
7439-95-4	Magnesium	4.51	1	U	EPA 6010D
7439-96-5	Manganese	0.451	1	U	EPA 6010D
7440-02-0	Nickel	0.897	1	U	EPA 6010D
7440-09-7	Potassium	769	1		EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.454	1	U	EPA 6010D
7440-23-5	Sodium	4480	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	0.897	1	U	EPA 6010D
7440-66-6	Zinc	2.24	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-03 File ID: QBICP2-051424RE_1-160

Sampled: 05/10/24 10:40 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 21:19

Solids: 92.66 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1527 Calibration: 05/14/24 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4350	1		EPA 6010D
7440-36-0	Antimony	2.25	1	U	EPA 6010D
7440-38-2	Arsenic	1.35	1	U	EPA 6010D
7440-39-3	Barium	30.6	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	1390	1		EPA 6010D
7440-47-3	Chromium	8.76	1		EPA 6010D
7440-48-4	Cobalt	3.80	1		EPA 6010D
7440-50-8	Copper	11.9	1		EPA 6010D
7439-89-6	Iron	8400	1		EPA 6010D
7439-92-1	Lead	3.87	1		EPA 6010D
7439-95-4	Magnesium	1780	1		EPA 6010D
7439-96-5	Manganese	235	1		EPA 6010D
7440-02-0	Nickel	8.41	1		EPA 6010D
7440-09-7	Potassium	900	1		EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.453	1	U	EPA 6010D
7440-23-5	Sodium	78.6	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	14.1	1		EPA 6010D
7440-66-6	Zinc	16.8	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID: QBICP2-051424RE_1-161

Sampled: 05/10/24 10:45 Prepared: 05/13/24 13:04 Analyzed: 05/14/24 21:22

Solids: 92.66 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE40868 Sequence: S4E1527 Calibration: 05/14/24 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5170	1		EPA 6010D
7440-36-0	Antimony	2.25	1	U	EPA 6010D
7440-38-2	Arsenic	1.35	1	U	EPA 6010D
7440-39-3	Barium	34.5	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	1540	1		EPA 6010D
7440-47-3	Chromium	9.54	1		EPA 6010D
7440-48-4	Cobalt	4.16	1		EPA 6010D
7440-50-8	Copper	15.7	1		EPA 6010D
7439-89-6	Iron	9870	1		EPA 6010D
7439-92-1	Lead	4.02	1		EPA 6010D
7439-95-4	Magnesium	2260	1		EPA 6010D
7439-96-5	Manganese	239	1		EPA 6010D
7440-02-0	Nickel	10.7	1		EPA 6010D
7440-09-7	Potassium	985	1		EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.453	1	U	EPA 6010D
7440-23-5	Sodium	144	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	15.3	1		EPA 6010D
7440-66-6	Zinc	20.8	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-01	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/10/24 10:30	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	92.18	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/10/24 10:35	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	92.51	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0324	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-03	File ID:	QBHg-DMA80-04 051424a
Sampled:	05/10/24 10:40	Prepared:	05/14/24 09:21	Analyzed:	05/14/24 15:50
Solids:	92.66	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/14/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0324	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-29

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-04	File ID:	
Sampled:	05/10/24 10:45	Prepared:	05/14/24 09:21	Analyzed:	05/16/24 09:30
Solids:	92.66	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE40923	Sequence:	S4E1434	Calibration:	05/16/24 0
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0324	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-01 File ID:

Sampled: 05/10/24 10:30 Prepared: 05/13/24 11:22 Analyzed: 05/13/24 14:55

Solids: 92.18 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40859 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-28

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0760
Client:	YU & Associates			Project:	22254 43-25 52nd Street, Woodside, NY
Matrix:	Soil	Laboratory ID:	24E0760-02	File ID:	
Sampled:	05/10/24 10:35	Prepared:	05/13/24 11:22	Analyzed:	05/13/24 14:55
Solids:	92.51	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE40859	Sequence:		Calibration:	05/13/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-03 File ID:

Sampled: 05/10/24 10:40 Prepared: 05/13/24 11:22 Analyzed: 05/13/24 14:55

Solids: 92.66 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40859 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.7	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-29

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0760

Client: YU & Associates Project: 22254 43-25 52nd Street, Woodside, NY

Matrix: Soil Laboratory ID: 24E0760-04 File ID:

Sampled: 05/10/24 10:45 Prepared: 05/13/24 11:22 Analyzed: 05/13/24 14:55

Solids: 92.66 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40859 Sequence: Calibration: 05/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.7	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/04/2024
Client Project ID: 22254 43-25 52nd Street, Woodside, NY
York Project (SDG) No.: 24E0760

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 10, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street, Woodside, NY**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E0760-01	EP-7	Soil	05/10/2024	05/10/2024
24E0760-02	EP-28	Soil	05/10/2024	05/10/2024
24E0760-03	EP-8	Soil	05/10/2024	05/10/2024
24E0760-04	EP-29	Soil	05/10/2024	05/10/2024
24E0760-05	TB_051024	Water	05/10/2024	05/10/2024

Work Order Narrative

York Analytical Work Order No.: 24E0760

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street, Woodside, NY

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/10/2024 8:10 PM

5 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{2.3}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-7	24E0760-01	Soil	05/10/2024 10:30 AM	05/10/2024 8:10 PM
EP-28	24E0760-02	Soil	05/10/2024 10:35 AM	05/10/2024 8:10 PM
EP-8	24E0760-03	Soil	05/10/2024 10:40 AM	05/10/2024 8:10 PM
EP-29	24E0760-04	Soil	05/10/2024 10:45 AM	05/10/2024 8:10 PM
TB_051024	24E0760-05	Water	05/10/2024 10:45 AM	05/10/2024 8:10 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24E0760

Page 1 of 1

Report To:	Invoice To:
Company: Yu & Associates	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:
Phone.: 201-873-7543	Phone.:
Contact: Cheng/Yu Hang	Contact:
E-mail: Chang@yu-associates.com	E-mail:

YOUR Project Name / Number: 22254 43-25 52nd St

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Matthew O'Rourke

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day ✓; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day); PFAS Standard 7-10 Day

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Sample Identification	Date	Time	Matrix	Preservative: Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TCL VOCs	TCL SVOCs	TAL Metals	Pesticides/PCBs	Grab or Comp.
EP-7	5/10/24	10:30	S	4		1								✓	✓	✓	✓	
EP-[redacted]28	"	10:35	"	"		"								✓	✓	✓	✓	
EP-[redacted]8	"	10:40	"	"		"								✓	✓	✓	✓	
EP-29	"	10:45	"	"		"								✓	✓	✓	✓	
FB-051024			W		✓									✓				

Field Filtered

Lab Filtered

Comments: Rush turn-ground. time for VOCs and metals only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / (N) Containers Intact: (Y) / N COC/Labels Agree: (Y) / N Preservation Confirmed: (Y) / N

COC Complete: (Y) / N COC Received: (Y) / N Appropriate Sample Volumes: (Y) / N Appropriate Sample Containers: (Y) / N

Cooler Temperature Confirmed: (Y) / N Samples Submitted within Holding Times: (Y) / N Corrective Action Form Required: Y / (N)

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke Yu & Associates Matthew O'Rourke	5/10/24 15:35	Ramon Duran	5/10/24 '53	Ramon Duran	5/10/24 2010
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					5/10/24 20:10 / 2.3 Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E0842

Sampling Date: May 13, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E0842
Date: August 27, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-14	24E0842-01	Soil	X	X	X
EP-35	24E0842-02	Soil	X	X	X
EP-15	24E0842-03	Soil	X	X	X
EP-36	24E0842-04	Soil	X	X	X
EP-11	24E0842-05	Soil	X	X	X
EP-32	24E0842-06	Soil	X	X	X
TB-05132024	24E0842-07	Water	X		

The sample delivery group (SDG) contained results for six soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 7473B (Mercury - Soils); The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.

6. Calibration Quality Control: VOA – The percent difference (%D) in the initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0842-01	Acetone	J
	Tetrachloroethylene	UJ
24E0842-02 to 24E0842-06	Acetone Tetrachloroethylene	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0842-01 to 24E0842-06	Vinyl chloride	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0842-01 to 24E0842-06	1,2-Diphenylhydrazine 2,4-Dimethylphenol 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 4-Nitrophenol Benzo(g,h,i)perylene Benzoic Acid Diphenylamine Hexachlorobutadiene Hexachlorocyclopentadiene N-Nitrosodimethylamine N-Nitrosodiphenylamine Pyridine	UJ

7. Laboratory Control Sample (LCS): The results are acceptable.

8. Surrogates: The results were acceptable.

9. Internal Standards: There were no deficiencies.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** The results are acceptable.

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.

12. Field Duplicate: Not applicable.

13. Compound Identification/Quantitation: The results are acceptable

14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	V5439548.D
Sampled:	05/13/24 11:45	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 10:39
Solids:	92.31	Preparation:	EPA 5035A	Initial/Final:	5.78 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.094	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.021	J
107-02-8	Acrolein	1	0.0094	U
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	V5439548.D
Sampled:	05/13/24 11:45	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 10:39
Solids:	92.31	Preparation:	EPA 5035A	Initial/Final:	5.78 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0094	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0094	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U J
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U J
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.5	98.9	77 - 125	
SURR: Toluene-d8	50.0	49.2	98.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.1	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	180682	6.025	196306	6.029	
ISTD: Chlorobenzene-d5	613789	9.064	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	232670	12.048	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID: V5439549.D

Sampled: 05/13/24 11:53 Prepared: 05/14/24 09:00 Analyzed: 05/14/24 11:05

Solids: 91.37 Preparation: EPA 5035A Initial/Final: 4.73 g / 5 ml

Batch: BE40812 Sequence: S4E1501 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0058	U
71-55-6	1,1,1-Trichloroethane	1	0.0058	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0058	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0058	U
79-00-5	1,1,2-Trichloroethane	1	0.0058	U
75-34-3	1,1-Dichloroethane	1	0.0058	U
75-35-4	1,1-Dichloroethylene	1	0.0058	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0058	U
96-18-4	1,2,3-Trichloropropane	1	0.0058	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0058	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0058	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0058	U
106-93-4	1,2-Dibromoethane	1	0.0058	U
95-50-1	1,2-Dichlorobenzene	1	0.0058	U
107-06-2	1,2-Dichloroethane	1	0.0058	U
78-87-5	1,2-Dichloropropane	1	0.0058	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0058	U
541-73-1	1,3-Dichlorobenzene	1	0.0058	U
106-46-7	1,4-Dichlorobenzene	1	0.0058	U
123-91-1	1,4-Dioxane	1	0.12	U
78-93-3	2-Butanone	1	0.0058	U
591-78-6	2-Hexanone	1	0.0058	U
108-10-1	4-Methyl-2-pentanone	1	0.0058	U
67-64-1	Acetone	1	0.012	U J
107-02-8	Acrolein	1	0.012	U
107-13-1	Acrylonitrile	1	0.0058	U
71-43-2	Benzene	1	0.0058	U
74-97-5	Bromochloromethane	1	0.0058	U
75-27-4	Bromodichloromethane	1	0.0058	U
75-25-2	Bromoform	1	0.0058	U
74-83-9	Bromomethane	1	0.0058	U
75-15-0	Carbon disulfide	1	0.0058	U
56-23-5	Carbon tetrachloride	1	0.0058	U
108-90-7	Chlorobenzene	1	0.0058	U
75-00-3	Chloroethane	1	0.0058	U
67-66-3	Chloroform	1	0.0058	U
74-87-3	Chloromethane	1	0.0058	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0058	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0058	U
110-82-7	Cyclohexane	1	0.0058	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-35

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-02	File ID:	V5439549.D
Sampled:	05/13/24 11:53	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 11:05
Solids:	91.37	Preparation:	EPA 5035A	Initial/Final:	4.73 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0058	U
74-95-3	Dibromomethane	1	0.0058	U
75-71-8	Dichlorodifluoromethane	1	0.0058	U
100-41-4	Ethyl Benzene	1	0.0058	U
87-68-3	Hexachlorobutadiene	1	0.0058	U
98-82-8	Isopropylbenzene	1	0.0058	U
79-20-9	Methyl acetate	1	0.0058	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0058	U
108-87-2	Methylcyclohexane	1	0.0058	U
75-09-2	Methylene chloride	1	0.012	U
104-51-8	n-Butylbenzene	1	0.0058	U
103-65-1	n-Propylbenzene	1	0.0058	U
95-47-6	o-Xylene	1	0.0058	U
179601-23-1	p- & m- Xylenes	1	0.012	U
99-87-6	p-Isopropyltoluene	1	0.0058	U
135-98-8	sec-Butylbenzene	1	0.0058	U
100-42-5	Styrene	1	0.0058	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0058	U
98-06-6	tert-Butylbenzene	1	0.0058	U
127-18-4	Tetrachloroethylene	1	0.0058	U J
108-88-3	Toluene	1	0.0058	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0058	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0058	U
79-01-6	Trichloroethylene	1	0.0058	U
75-69-4	Trichlorofluoromethane	1	0.0058	U
75-01-4	Vinyl Chloride	1	0.0058	U J
1330-20-7	Xylenes, Total	1	0.017	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.4	105	77 - 125	
SURR: Toluene-d8	50.0	49.4	98.8	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	182752	6.029	196306	6.029	
ISTD: Chlorobenzene-d5	627307	9.061	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	245952	12.045	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	V5439550.D
Sampled:	05/13/24 12:00	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 11:31
Solids:	93.05	Preparation:	EPA 5035A	Initial/Final:	5.72 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.094	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.0094	U J
107-02-8	Acrolein	1	0.0094	U
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-03 File ID: V5439550.D

Sampled: 05/13/24 12:00 Prepared: 05/14/24 09:00 Analyzed: 05/14/24 11:31

Solids: 93.05 Preparation: EPA 5035A Initial/Final: 5.72 g / 5 ml

Batch: BE40812 Sequence: S4E1501 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0094	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0094	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U J
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U J
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.5	101	77 - 125	
SURR: Toluene-d8	50.0	49.5	99.1	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.3	105	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	169531	6.025	196306	6.029	
ISTD: Chlorobenzene-d5	576601	9.061	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	221541	12.048	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-36

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-04 File ID: V5439551.D

Sampled: 05/13/24 12:05 Prepared: 05/14/24 09:00 Analyzed: 05/14/24 11:58

Solids: 92.76 Preparation: EPA 5035A Initial/Final: 5.32 g / 5 ml

Batch: BE40812 Sequence: S4E1501 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U
71-55-6	1,1,1-Trichloroethane	1	0.0051	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U
79-00-5	1,1,2-Trichloroethane	1	0.0051	U
75-34-3	1,1-Dichloroethane	1	0.0051	U
75-35-4	1,1-Dichloroethylene	1	0.0051	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U
96-18-4	1,2,3-Trichloropropane	1	0.0051	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0051	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U
106-93-4	1,2-Dibromoethane	1	0.0051	U
95-50-1	1,2-Dichlorobenzene	1	0.0051	U
107-06-2	1,2-Dichloroethane	1	0.0051	U
78-87-5	1,2-Dichloropropane	1	0.0051	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0051	U
541-73-1	1,3-Dichlorobenzene	1	0.0051	U
106-46-7	1,4-Dichlorobenzene	1	0.0051	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0051	U
591-78-6	2-Hexanone	1	0.0051	U
108-10-1	4-Methyl-2-pentanone	1	0.0051	U
67-64-1	Acetone	1	0.010	U J
107-02-8	Acrolein	1	0.010	U
107-13-1	Acrylonitrile	1	0.0051	U
71-43-2	Benzene	1	0.0051	U
74-97-5	Bromochloromethane	1	0.0051	U
75-27-4	Bromodichloromethane	1	0.0051	U
75-25-2	Bromoform	1	0.0051	U
74-83-9	Bromomethane	1	0.0051	U
75-15-0	Carbon disulfide	1	0.0051	U
56-23-5	Carbon tetrachloride	1	0.0051	U
108-90-7	Chlorobenzene	1	0.0051	U
75-00-3	Chloroethane	1	0.0051	U
67-66-3	Chloroform	1	0.0051	U
74-87-3	Chloromethane	1	0.0051	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U
110-82-7	Cyclohexane	1	0.0051	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-36

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-04	File ID:	V5439551.D
Sampled:	05/13/24 12:05	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 11:58
Solids:	92.76	Preparation:	EPA 5035A	Initial/Final:	5.32 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0051	U
74-95-3	Dibromomethane	1	0.0051	U
75-71-8	Dichlorodifluoromethane	1	0.0051	U
100-41-4	Ethyl Benzene	1	0.0051	U
87-68-3	Hexachlorobutadiene	1	0.0051	U
98-82-8	Isopropylbenzene	1	0.0051	U
79-20-9	Methyl acetate	1	0.0051	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U
108-87-2	Methylcyclohexane	1	0.0051	U
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0051	U
103-65-1	n-Propylbenzene	1	0.0051	U
95-47-6	o-Xylene	1	0.0051	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0051	U
135-98-8	sec-Butylbenzene	1	0.0051	U
100-42-5	Styrene	1	0.0051	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U
98-06-6	tert-Butylbenzene	1	0.0051	U
127-18-4	Tetrachloroethylene	1	0.0051	U J
108-88-3	Toluene	1	0.0051	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U
79-01-6	Trichloroethylene	1	0.0051	U
75-69-4	Trichlorofluoromethane	1	0.0051	U
75-01-4	Vinyl Chloride	1	0.0051	U J
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.6	101	77 - 125	
SURR: Toluene-d8	50.0	49.2	98.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.2	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	166324	6.026	196306	6.029	
ISTD: Chlorobenzene-d5	564022	9.061	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	219118	12.045	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	V5439552.D
Sampled:	05/13/24 13:00	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 12:24
Solids:	93.60	Preparation:	EPA 5035A	Initial/Final:	5.65 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.095	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.0095	U J
107-02-8	Acrolein	1	0.0095	U
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-11

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-05 File ID: V5439552.D

Sampled: 05/13/24 13:00 Prepared: 05/14/24 09:00 Analyzed: 05/14/24 12:24

Solids: 93.60 Preparation: EPA 5035A Initial/Final: 5.65 g / 5 ml

Batch: BE40812 Sequence: S4E1501 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0095	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0095	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U J
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U J
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.2	102	77 - 125	
SURR: Toluene-d8	50.0	49.3	98.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.1	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	154968	6.026	196306	6.029	
ISTD: Chlorobenzene-d5	521993	9.061	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	200903	12.045	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-32

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-06	File ID:	V5439553.D
Sampled:	05/13/24 13:10	Prepared:	05/14/24 09:00	Analyzed:	05/14/24 12:51
Solids:	93.51	Preparation:	EPA 5035A	Initial/Final:	5.38 g / 5 ml
Batch:	BE40812	Sequence:	S4E1501	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0050	U
71-55-6	1,1,1-Trichloroethane	1	0.0050	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0050	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0050	U
79-00-5	1,1,2-Trichloroethane	1	0.0050	U
75-34-3	1,1-Dichloroethane	1	0.0050	U
75-35-4	1,1-Dichloroethylene	1	0.0050	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0050	U
96-18-4	1,2,3-Trichloropropane	1	0.0050	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0050	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0050	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0050	U
106-93-4	1,2-Dibromoethane	1	0.0050	U
95-50-1	1,2-Dichlorobenzene	1	0.0050	U
107-06-2	1,2-Dichloroethane	1	0.0050	U
78-87-5	1,2-Dichloropropane	1	0.0050	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0050	U
541-73-1	1,3-Dichlorobenzene	1	0.0050	U
106-46-7	1,4-Dichlorobenzene	1	0.0050	U
123-91-1	1,4-Dioxane	1	0.099	U
78-93-3	2-Butanone	1	0.0050	U
591-78-6	2-Hexanone	1	0.0050	U
108-10-1	4-Methyl-2-pentanone	1	0.0050	U
67-64-1	Acetone	1	0.0099	U J
107-02-8	Acrolein	1	0.0099	U
107-13-1	Acrylonitrile	1	0.0050	U
71-43-2	Benzene	1	0.0050	U
74-97-5	Bromochloromethane	1	0.0050	U
75-27-4	Bromodichloromethane	1	0.0050	U
75-25-2	Bromoform	1	0.0050	U
74-83-9	Bromomethane	1	0.0050	U
75-15-0	Carbon disulfide	1	0.0050	U
56-23-5	Carbon tetrachloride	1	0.0050	U
108-90-7	Chlorobenzene	1	0.0050	U
75-00-3	Chloroethane	1	0.0050	U
67-66-3	Chloroform	1	0.0050	U
74-87-3	Chloromethane	1	0.0050	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0050	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0050	U
110-82-7	Cyclohexane	1	0.0050	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID: V5439553.D

Sampled: 05/13/24 13:10 Prepared: 05/14/24 09:00 Analyzed: 05/14/24 12:51

Solids: 93.51 Preparation: EPA 5035A Initial/Final: 5.38 g / 5 ml

Batch: BE40812 Sequence: S4E1501 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0050	U
74-95-3	Dibromomethane	1	0.0050	U
75-71-8	Dichlorodifluoromethane	1	0.0050	U
100-41-4	Ethyl Benzene	1	0.0050	U
87-68-3	Hexachlorobutadiene	1	0.0050	U
98-82-8	Isopropylbenzene	1	0.0050	U
79-20-9	Methyl acetate	1	0.0050	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0050	U
108-87-2	Methylcyclohexane	1	0.0050	U
75-09-2	Methylene chloride	1	0.0099	U
104-51-8	n-Butylbenzene	1	0.0050	U
103-65-1	n-Propylbenzene	1	0.0050	U
95-47-6	o-Xylene	1	0.0050	U
179601-23-1	p- & m- Xylenes	1	0.0099	U
99-87-6	p-Isopropyltoluene	1	0.0050	U
135-98-8	sec-Butylbenzene	1	0.0050	U
100-42-5	Styrene	1	0.0050	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0050	U
98-06-6	tert-Butylbenzene	1	0.0050	U
127-18-4	Tetrachloroethylene	1	0.0050	U J
108-88-3	Toluene	1	0.0050	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0050	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0050	U
79-01-6	Trichloroethylene	1	0.0050	U
75-69-4	Trichlorofluoromethane	1	0.0050	U
75-01-4	Vinyl Chloride	1	0.0050	U J
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.0	104	77 - 125	
SURR: Toluene-d8	50.0	49.6	99.1	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.1	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	140235	6.026	196306	6.029	
ISTD: Chlorobenzene-d5	469629	9.064	680587	9.064	
ISTD: 1,2-Dichlorobenzene-d4	178372	12.045	287851	12.045	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_05132024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0842-07	File ID:	V10C04754.D
Sampled:	05/13/24 13:10	Prepared:	05/14/24 08:00	Analyzed:	05/14/24 11:56
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40845	Sequence:	S4E1507	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_05132024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0842-07	File ID:	V10C04754.D
Sampled:	05/13/24 13:10	Prepared:	05/14/24 08:00	Analyzed:	05/14/24 11:56
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40845	Sequence:	S4E1507	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.93	99.3	69 - 130	
SURR: Toluene-d8	10.0	9.68	96.8	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.25	92.5	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	490332	6.431	482190	6.428	
ISTD: Chlorobenzene-d5	1749409	9.492	1734423	9.492	
ISTD: 1,2-Dichlorobenzene-d4	591412	12.505	590721	12.508	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	BNA1027558.D
Sampled:	05/13/24 11:45	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 10:39
Solids:	92.31	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0897	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.179	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0897	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.179	U
95-95-4	2,4,5-Trichlorophenol	2	0.0897	U
88-06-2	2,4,6-Trichlorophenol	2	0.0897	U
120-83-2	2,4-Dichlorophenol	2	0.0897	U
105-67-9	2,4-Dimethylphenol	2	0.0897	U J
51-28-5	2,4-Dinitrophenol	2	0.179	U J
121-14-2	2,4-Dinitrotoluene	2	0.0897	U
606-20-2	2,6-Dinitrotoluene	2	0.0897	U
91-58-7	2-Chloronaphthalene	2	0.0897	U
95-57-8	2-Chlorophenol	2	0.0897	U
91-57-6	2-Methylnaphthalene	2	0.0897	U
95-48-7	2-Methylphenol	2	0.0897	U
88-74-4	2-Nitroaniline	2	0.179	U
88-75-5	2-Nitrophenol	2	0.0897	U
65794-96-9	3- & 4-Methylphenols	2	0.0897	U
91-94-1	3,3-Dichlorobenzidine	2	0.0897	U
99-09-2	3-Nitroaniline	2	0.179	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.179	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0897	U
59-50-7	4-Chloro-3-methylphenol	2	0.0897	U
106-47-8	4-Chloroaniline	2	0.0897	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0897	U
100-01-6	4-Nitroaniline	2	0.179	U
100-02-7	4-Nitrophenol	2	0.179	U J
83-32-9	Acenaphthene	2	0.0897	U
208-96-8	Acenaphthylene	2	0.0897	U
98-86-2	Acetophenone	2	0.0897	U
62-53-3	Aniline	2	0.359	U
120-12-7	Anthracene	2	0.0897	U
1912-24-9	Atrazine	2	0.0897	U
100-52-7	Benzaldehyde	2	0.0897	U
92-87-5	Benzidine	2	0.359	U
56-55-3	Benzo(a)anthracene	2	0.0897	U
50-32-8	Benzo(a)pyrene	2	0.0897	U
205-99-2	Benzo(b)fluoranthene	2	0.0897	U
191-24-2	Benzo(g,h,i)perylene	2	0.0897	U J
207-08-9	Benzo(k)fluoranthene	2	0.0897	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-14

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-01 File ID: BNA1027558.D

Sampled: 05/13/24 11:45 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 10:39

Solids: 92.31 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0897	U J
100-51-6	Benzyl alcohol	2	0.0897	U
85-68-7	Benzyl butyl phthalate	2	0.0897	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0897	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0897	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0897	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0897	U
105-60-2	Caprolactam	2	0.179	U
86-74-8	Carbazole	2	0.0897	U
218-01-9	Chrysene	2	0.0897	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0897	U
132-64-9	Dibenzofuran	2	0.0897	U
84-66-2	Diethyl phthalate	2	0.0897	U
131-11-3	Dimethyl phthalate	2	0.0897	U
84-74-2	Di-n-butyl phthalate	2	0.0897	U
117-84-0	Di-n-octyl phthalate	2	0.0897	U
122-39-4	Diphenylamine	2	0.179	U J
206-44-0	Fluoranthene	2	0.0897	U
86-73-7	Fluorene	2	0.0897	U
118-74-1	Hexachlorobenzene	2	0.0897	U
87-68-3	Hexachlorobutadiene	2	0.0897	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0897	U J
67-72-1	Hexachloroethane	2	0.0897	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0897	U
78-59-1	Isophorone	2	0.0897	U
91-20-3	Naphthalene	2	0.0897	U
98-95-3	Nitrobenzene	2	0.0897	U
62-75-9	N-Nitrosodimethylamine	2	0.0897	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0897	U
86-30-6	N-Nitrosodiphenylamine	2	0.0897	U J
87-86-5	Pentachlorophenol	2	0.0897	U
85-01-8	Phenanthrene	2	0.0897	U
108-95-2	Phenol	2	0.0897	U
129-00-0	Pyrene	2	0.0897	U
110-86-1	Pyridine	2	0.359	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.79	1.11	62.1	20 - 108	
SURR: Phenol-d6	1.79	1.17	65.4	23 - 114	
SURR: Nitrobenzene-d5	0.897	0.532	59.3	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	BNA1027558.D
Sampled:	05/13/24 11:45	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 10:39
Solids:	92.31	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.897	0.519	57.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.79	1.55	86.4	19 - 110	
SURR: Terphenyl-d14	0.897	0.623	69.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	265294	5.298	289533	5.304	
ISTD: Naphthalene-d8	1132230	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	775156	8.221	904509	8.221	
ISTD: Phenanthrene-d10	1273718	10.174	1473094	10.18	
ISTD: Chrysene-d12	1050071	15.044	1304717	15.05	
ISTD: Perylene-d12	1005622	18.072	1310766	18.078	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID: BNA1027559.D

Sampled: 05/13/24 11:53 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 11:09

Solids: 91.37 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0907	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0907	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0907	U
88-06-2	2,4,6-Trichlorophenol	2	0.0907	U
120-83-2	2,4-Dichlorophenol	2	0.0907	U
105-67-9	2,4-Dimethylphenol	2	0.0907	U J
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0907	U
606-20-2	2,6-Dinitrotoluene	2	0.0907	U
91-58-7	2-Chloronaphthalene	2	0.0907	U
95-57-8	2-Chlorophenol	2	0.0907	U
91-57-6	2-Methylnaphthalene	2	0.0907	U
95-48-7	2-Methylphenol	2	0.0907	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0907	U
65794-96-9	3- & 4-Methylphenols	2	0.0907	U
91-94-1	3,3-Dichlorobenzidine	2	0.0907	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0907	U
59-50-7	4-Chloro-3-methylphenol	2	0.0907	U
106-47-8	4-Chloroaniline	2	0.0907	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0907	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U J
83-32-9	Acenaphthene	2	0.0907	U
208-96-8	Acenaphthylene	2	0.0907	U
98-86-2	Acetophenone	2	0.0907	U
62-53-3	Aniline	2	0.363	U
120-12-7	Anthracene	2	0.0907	U
1912-24-9	Atrazine	2	0.0907	U
100-52-7	Benzaldehyde	2	0.0907	U
92-87-5	Benzidine	2	0.363	U
56-55-3	Benzo(a)anthracene	2	0.0907	U
50-32-8	Benzo(a)pyrene	2	0.0907	U
205-99-2	Benzo(b)fluoranthene	2	0.0907	U
191-24-2	Benzo(g,h,i)perylene	2	0.0907	U J
207-08-9	Benzo(k)fluoranthene	2	0.0907	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID: BNA1027559.D

Sampled: 05/13/24 11:53 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 11:09

Solids: 91.37 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0907	U J
100-51-6	Benzyl alcohol	2	0.0907	U
85-68-7	Benzyl butyl phthalate	2	0.0907	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0907	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0907	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0907	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0907	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0907	U
218-01-9	Chrysene	2	0.0907	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0907	U
132-64-9	Dibenzofuran	2	0.0907	U
84-66-2	Diethyl phthalate	2	0.0907	U
131-11-3	Dimethyl phthalate	2	0.0907	U
84-74-2	Di-n-butyl phthalate	2	0.0907	U
117-84-0	Di-n-octyl phthalate	2	0.0907	U
122-39-4	Diphenylamine	2	0.181	U J
206-44-0	Fluoranthene	2	0.0907	U
86-73-7	Fluorene	2	0.0907	U
118-74-1	Hexachlorobenzene	2	0.0907	U
87-68-3	Hexachlorobutadiene	2	0.0907	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0907	U J
67-72-1	Hexachloroethane	2	0.0907	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0907	U
78-59-1	Isophorone	2	0.0907	U
91-20-3	Naphthalene	2	0.0907	U
98-95-3	Nitrobenzene	2	0.0907	U
62-75-9	N-Nitrosodimethylamine	2	0.0907	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0907	U
86-30-6	N-Nitrosodiphenylamine	2	0.0907	U J
87-86-5	Pentachlorophenol	2	0.0907	U
85-01-8	Phenanthrene	2	0.0907	U
108-95-2	Phenol	2	0.0907	U
129-00-0	Pyrene	2	0.0907	U
110-86-1	Pyridine	2	0.363	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.21	66.8	20 - 108	
SURR: Phenol-d6	1.81	1.15	63.6	23 - 114	
SURR: Nitrobenzene-d5	0.906	0.576	63.6	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-35

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-02	File ID:	BNA1027559.D
Sampled:	05/13/24 11:53	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 11:09
Solids:	91.37	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.906	0.527	58.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.61	89.0	19 - 110	
SURR: Terphenyl-d14	0.906	0.604	66.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	300062	5.298	289533	5.304	
ISTD: Naphthalene-d8	1321197	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	890276	8.215	904509	8.221	
ISTD: Phenanthrene-d10	1408754	10.174	1473094	10.18	
ISTD: Chrysene-d12	1262199	15.044	1304717	15.05	
ISTD: Perylene-d12	1197287	18.072	1310766	18.078	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	BNA1027560.D
Sampled:	05/13/24 12:00	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 11:39
Solids:	93.05	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0890	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0890	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0890	U
88-06-2	2,4,6-Trichlorophenol	2	0.0890	U
120-83-2	2,4-Dichlorophenol	2	0.0890	U
105-67-9	2,4-Dimethylphenol	2	0.0890	U J
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0890	U
606-20-2	2,6-Dinitrotoluene	2	0.0890	U
91-58-7	2-Chloronaphthalene	2	0.0890	U
95-57-8	2-Chlorophenol	2	0.0890	U
91-57-6	2-Methylnaphthalene	2	0.0890	U
95-48-7	2-Methylphenol	2	0.0890	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0890	U
65794-96-9	3- & 4-Methylphenols	2	0.0890	U
91-94-1	3,3-Dichlorobenzidine	2	0.0890	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0890	U
59-50-7	4-Chloro-3-methylphenol	2	0.0890	U
106-47-8	4-Chloroaniline	2	0.0890	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0890	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U J
83-32-9	Acenaphthene	2	0.0890	U
208-96-8	Acenaphthylene	2	0.0890	U
98-86-2	Acetophenone	2	0.0890	U
62-53-3	Aniline	2	0.357	U
120-12-7	Anthracene	2	0.0890	U
1912-24-9	Atrazine	2	0.0890	U
100-52-7	Benzaldehyde	2	0.0890	U
92-87-5	Benzidine	2	0.357	U
56-55-3	Benzo(a)anthracene	2	0.0890	U
50-32-8	Benzo(a)pyrene	2	0.0890	U
205-99-2	Benzo(b)fluoranthene	2	0.0890	U
191-24-2	Benzo(g,h,i)perylene	2	0.0890	U J
207-08-9	Benzo(k)fluoranthene	2	0.0890	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-03 File ID: BNA1027560.D

Sampled: 05/13/24 12:00 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 11:39

Solids: 93.05 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0890	U J
100-51-6	Benzyl alcohol	2	0.0890	U
85-68-7	Benzyl butyl phthalate	2	0.0890	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0890	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0890	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0890	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0890	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0890	U
218-01-9	Chrysene	2	0.0890	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0890	U
132-64-9	Dibenzofuran	2	0.0890	U
84-66-2	Diethyl phthalate	2	0.0890	U
131-11-3	Dimethyl phthalate	2	0.0890	U
84-74-2	Di-n-butyl phthalate	2	0.0890	U
117-84-0	Di-n-octyl phthalate	2	0.0890	U
122-39-4	Diphenylamine	2	0.178	U J
206-44-0	Fluoranthene	2	0.0890	U
86-73-7	Fluorene	2	0.0890	U
118-74-1	Hexachlorobenzene	2	0.0890	U
87-68-3	Hexachlorobutadiene	2	0.0890	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0890	U J
67-72-1	Hexachloroethane	2	0.0890	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0890	U
78-59-1	Isophorone	2	0.0890	U
91-20-3	Naphthalene	2	0.0890	U
98-95-3	Nitrobenzene	2	0.0890	U
62-75-9	N-Nitrosodimethylamine	2	0.0890	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0890	U
86-30-6	N-Nitrosodiphenylamine	2	0.0890	U J
87-86-5	Pentachlorophenol	2	0.0890	U
85-01-8	Phenanthrene	2	0.0890	U
108-95-2	Phenol	2	0.0890	U
129-00-0	Pyrene	2	0.0890	U
110-86-1	Pyridine	2	0.357	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.11	62.2	20 - 108	
SURR: Phenol-d6	1.78	1.12	62.7	23 - 114	
SURR: Nitrobenzene-d5	0.890	0.498	55.9	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	BNA1027560.D
Sampled:	05/13/24 12:00	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 11:39
Solids:	93.05	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.890	0.477	53.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.45	81.2	19 - 110	
SURR: Terphenyl-d14	0.890	0.497	55.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	268986	5.298	289533	5.304	
ISTD: Naphthalene-d8	1203614	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	792801	8.215	904509	8.221	
ISTD: Phenanthrene-d10	1261527	10.174	1473094	10.18	
ISTD: Chrysene-d12	1207462	15.044	1304717	15.05	
ISTD: Perylene-d12	1235891	18.072	1310766	18.078	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-36

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-04	File ID:	BNA1027561.D
Sampled:	05/13/24 12:05	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 12:09
Solids:	92.76	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0887	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.177	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0887	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.177	U
95-95-4	2,4,5-Trichlorophenol	2	0.0887	U
88-06-2	2,4,6-Trichlorophenol	2	0.0887	U
120-83-2	2,4-Dichlorophenol	2	0.0887	U
105-67-9	2,4-Dimethylphenol	2	0.0887	U J
51-28-5	2,4-Dinitrophenol	2	0.177	U J
121-14-2	2,4-Dinitrotoluene	2	0.0887	U
606-20-2	2,6-Dinitrotoluene	2	0.0887	U
91-58-7	2-Chloronaphthalene	2	0.0887	U
95-57-8	2-Chlorophenol	2	0.0887	U
91-57-6	2-Methylnaphthalene	2	0.0887	U
95-48-7	2-Methylphenol	2	0.0887	U
88-74-4	2-Nitroaniline	2	0.177	U
88-75-5	2-Nitrophenol	2	0.0887	U
65794-96-9	3- & 4-Methylphenols	2	0.0887	U
91-94-1	3,3-Dichlorobenzidine	2	0.0887	U
99-09-2	3-Nitroaniline	2	0.177	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.177	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0887	U
59-50-7	4-Chloro-3-methylphenol	2	0.0887	U
106-47-8	4-Chloroaniline	2	0.0887	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0887	U
100-01-6	4-Nitroaniline	2	0.177	U
100-02-7	4-Nitrophenol	2	0.177	U J
83-32-9	Acenaphthene	2	0.0887	U
208-96-8	Acenaphthylene	2	0.0887	U
98-86-2	Acetophenone	2	0.0887	U
62-53-3	Aniline	2	0.355	U
120-12-7	Anthracene	2	0.0887	U
1912-24-9	Atrazine	2	0.0887	U
100-52-7	Benzaldehyde	2	0.0887	U
92-87-5	Benzidine	2	0.355	U
56-55-3	Benzo(a)anthracene	2	0.0887	U
50-32-8	Benzo(a)pyrene	2	0.0887	U
205-99-2	Benzo(b)fluoranthene	2	0.0887	U
191-24-2	Benzo(g,h,i)perylene	2	0.0887	U J
207-08-9	Benzo(k)fluoranthene	2	0.0887	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-36

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-04 File ID: BNA1027561.D

Sampled: 05/13/24 12:05 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 12:09

Solids: 92.76 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0887	U J
100-51-6	Benzyl alcohol	2	0.0887	U
85-68-7	Benzyl butyl phthalate	2	0.0887	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0887	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0887	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0887	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0887	U
105-60-2	Caprolactam	2	0.177	U
86-74-8	Carbazole	2	0.0887	U
218-01-9	Chrysene	2	0.0887	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0887	U
132-64-9	Dibenzofuran	2	0.0887	U
84-66-2	Diethyl phthalate	2	0.0887	U
131-11-3	Dimethyl phthalate	2	0.0887	U
84-74-2	Di-n-butyl phthalate	2	0.0887	U
117-84-0	Di-n-octyl phthalate	2	0.0887	U
122-39-4	Diphenylamine	2	0.177	U J
206-44-0	Fluoranthene	2	0.0887	U
86-73-7	Fluorene	2	0.0887	U
118-74-1	Hexachlorobenzene	2	0.0887	U
87-68-3	Hexachlorobutadiene	2	0.0887	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0887	U J
67-72-1	Hexachloroethane	2	0.0887	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0887	U
78-59-1	Isophorone	2	0.0887	U
91-20-3	Naphthalene	2	0.0887	U
98-95-3	Nitrobenzene	2	0.0887	U
62-75-9	N-Nitrosodimethylamine	2	0.0887	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0887	U
86-30-6	N-Nitrosodiphenylamine	2	0.0887	U J
87-86-5	Pentachlorophenol	2	0.0887	U
85-01-8	Phenanthrene	2	0.0887	U
108-95-2	Phenol	2	0.0887	U
129-00-0	Pyrene	2	0.0887	U
110-86-1	Pyridine	2	0.355	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.77	1.23	69.1	20 - 108	
SURR: Phenol-d6	1.77	1.25	70.4	23 - 114	
SURR: Nitrobenzene-d5	0.887	0.561	63.3	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-36

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-04	File ID:	BNA1027561.D
Sampled:	05/13/24 12:05	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 12:09
Solids:	92.76	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.887	0.509	57.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.77	1.54	86.8	19 - 110	
SURR: Terphenyl-d14	0.887	0.540	60.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	266412	5.298	289533	5.304	
ISTD: Naphthalene-d8	1195290	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	799441	8.215	904509	8.221	
ISTD: Phenanthrene-d10	1297721	10.174	1473094	10.18	
ISTD: Chrysene-d12	1212972	15.038	1304717	15.05	
ISTD: Perylene-d12	1253584	18.072	1310766	18.078	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	BNA1027562.D
Sampled:	05/13/24 13:00	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 12:39
Solids:	93.60	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0876	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.175	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0876	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.175	U
95-95-4	2,4,5-Trichlorophenol	2	0.0876	U
88-06-2	2,4,6-Trichlorophenol	2	0.0876	U
120-83-2	2,4-Dichlorophenol	2	0.0876	U
105-67-9	2,4-Dimethylphenol	2	0.0876	U J
51-28-5	2,4-Dinitrophenol	2	0.175	U J
121-14-2	2,4-Dinitrotoluene	2	0.0876	U
606-20-2	2,6-Dinitrotoluene	2	0.0876	U
91-58-7	2-Chloronaphthalene	2	0.0876	U
95-57-8	2-Chlorophenol	2	0.0876	U
91-57-6	2-Methylnaphthalene	2	0.0876	U
95-48-7	2-Methylphenol	2	0.0876	U
88-74-4	2-Nitroaniline	2	0.175	U
88-75-5	2-Nitrophenol	2	0.0876	U
65794-96-9	3- & 4-Methylphenols	2	0.0876	U
91-94-1	3,3-Dichlorobenzidine	2	0.0876	U
99-09-2	3-Nitroaniline	2	0.175	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.175	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0876	U
59-50-7	4-Chloro-3-methylphenol	2	0.0876	U
106-47-8	4-Chloroaniline	2	0.0876	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0876	U
100-01-6	4-Nitroaniline	2	0.175	U
100-02-7	4-Nitrophenol	2	0.175	U J
83-32-9	Acenaphthene	2	0.0876	U
208-96-8	Acenaphthylene	2	0.0876	U
98-86-2	Acetophenone	2	0.0876	U
62-53-3	Aniline	2	0.351	U
120-12-7	Anthracene	2	0.0876	U
1912-24-9	Atrazine	2	0.0876	U
100-52-7	Benzaldehyde	2	0.0876	U
92-87-5	Benzidine	2	0.351	U
56-55-3	Benzo(a)anthracene	2	0.0876	U
50-32-8	Benzo(a)pyrene	2	0.0876	U
205-99-2	Benzo(b)fluoranthene	2	0.0876	U
191-24-2	Benzo(g,h,i)perylene	2	0.0876	U J
207-08-9	Benzo(k)fluoranthene	2	0.0876	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-11

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-05 File ID: BNA1027562.D

Sampled: 05/13/24 13:00 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 12:39

Solids: 93.60 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0876	U J
100-51-6	Benzyl alcohol	2	0.0876	U
85-68-7	Benzyl butyl phthalate	2	0.0876	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0876	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0876	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0876	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0876	U
105-60-2	Caprolactam	2	0.175	U
86-74-8	Carbazole	2	0.0876	U
218-01-9	Chrysene	2	0.0876	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0876	U
132-64-9	Dibenzofuran	2	0.0876	U
84-66-2	Diethyl phthalate	2	0.0876	U
131-11-3	Dimethyl phthalate	2	0.0876	U
84-74-2	Di-n-butyl phthalate	2	0.0876	U
117-84-0	Di-n-octyl phthalate	2	0.0876	U
122-39-4	Diphenylamine	2	0.175	U J
206-44-0	Fluoranthene	2	0.0876	U
86-73-7	Fluorene	2	0.0876	U
118-74-1	Hexachlorobenzene	2	0.0876	U
87-68-3	Hexachlorobutadiene	2	0.0876	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0876	U J
67-72-1	Hexachloroethane	2	0.0876	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0876	U
78-59-1	Isophorone	2	0.0876	U
91-20-3	Naphthalene	2	0.0876	U
98-95-3	Nitrobenzene	2	0.0876	U
62-75-9	N-Nitrosodimethylamine	2	0.0876	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0876	U
86-30-6	N-Nitrosodiphenylamine	2	0.0876	U J
87-86-5	Pentachlorophenol	2	0.0876	U
85-01-8	Phenanthrene	2	0.0876	U
108-95-2	Phenol	2	0.0876	U
129-00-0	Pyrene	2	0.0876	U
110-86-1	Pyridine	2	0.351	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.75	1.02	58.2	20 - 108	
SURR: Phenol-d6	1.75	1.04	59.2	23 - 114	
SURR: Nitrobenzene-d5	0.876	0.472	53.9	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	BNA1027562.D
Sampled:	05/13/24 13:00	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 12:39
Solids:	93.60	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.876	0.479	54.7	21 - 113	
SURR: 2,4,6-Tribromophenol	1.75	1.25	71.1	19 - 110	
SURR: Terphenyl-d14	0.876	0.503	57.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	288901	5.298	289533	5.304	
ISTD: Naphthalene-d8	1252080	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	830602	8.215	904509	8.221	
ISTD: Phenanthrene-d10	1355361	10.174	1473094	10.18	
ISTD: Chrysene-d12	1245424	15.038	1304717	15.05	
ISTD: Perylene-d12	1311515	18.072	1310766	18.078	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID: BNA1027563.D

Sampled: 05/13/24 13:10 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 13:08

Solids: 93.51 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0866	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.173	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0866	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.173	U
95-95-4	2,4,5-Trichlorophenol	2	0.0866	U
88-06-2	2,4,6-Trichlorophenol	2	0.0866	U
120-83-2	2,4-Dichlorophenol	2	0.0866	U
105-67-9	2,4-Dimethylphenol	2	0.0866	U J
51-28-5	2,4-Dinitrophenol	2	0.173	U J
121-14-2	2,4-Dinitrotoluene	2	0.0866	U
606-20-2	2,6-Dinitrotoluene	2	0.0866	U
91-58-7	2-Chloronaphthalene	2	0.0866	U
95-57-8	2-Chlorophenol	2	0.0866	U
91-57-6	2-Methylnaphthalene	2	0.0866	U
95-48-7	2-Methylphenol	2	0.0866	U
88-74-4	2-Nitroaniline	2	0.173	U
88-75-5	2-Nitrophenol	2	0.0866	U
65794-96-9	3- & 4-Methylphenols	2	0.0866	U
91-94-1	3,3-Dichlorobenzidine	2	0.0866	U
99-09-2	3-Nitroaniline	2	0.173	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.173	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0866	U
59-50-7	4-Chloro-3-methylphenol	2	0.0866	U
106-47-8	4-Chloroaniline	2	0.0866	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0866	U
100-01-6	4-Nitroaniline	2	0.173	U
100-02-7	4-Nitrophenol	2	0.173	U J
83-32-9	Acenaphthene	2	0.0866	U
208-96-8	Acenaphthylene	2	0.0866	U
98-86-2	Acetophenone	2	0.0866	U
62-53-3	Aniline	2	0.347	U
120-12-7	Anthracene	2	0.0866	U
1912-24-9	Atrazine	2	0.0866	U
100-52-7	Benzaldehyde	2	0.0866	U
92-87-5	Benzidine	2	0.347	U
56-55-3	Benzo(a)anthracene	2	0.0866	U
50-32-8	Benzo(a)pyrene	2	0.0866	U
205-99-2	Benzo(b)fluoranthene	2	0.0866	U
191-24-2	Benzo(g,h,i)perylene	2	0.0866	U J
207-08-9	Benzo(k)fluoranthene	2	0.0866	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID: BNA1027563.D

Sampled: 05/13/24 13:10 Prepared: 05/14/24 08:42 Analyzed: 05/15/24 13:08

Solids: 93.51 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BE40913 Sequence: S4E1538 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0866	U J
100-51-6	Benzyl alcohol	2	0.0866	U
85-68-7	Benzyl butyl phthalate	2	0.0866	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0866	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0866	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0866	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0866	U
105-60-2	Caprolactam	2	0.173	U
86-74-8	Carbazole	2	0.0866	U
218-01-9	Chrysene	2	0.0866	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0866	U
132-64-9	Dibenzofuran	2	0.0866	U
84-66-2	Diethyl phthalate	2	0.0866	U
131-11-3	Dimethyl phthalate	2	0.0866	U
84-74-2	Di-n-butyl phthalate	2	0.0866	U
117-84-0	Di-n-octyl phthalate	2	0.0866	U
122-39-4	Diphenylamine	2	0.173	U J
206-44-0	Fluoranthene	2	0.0866	U
86-73-7	Fluorene	2	0.0866	U
118-74-1	Hexachlorobenzene	2	0.0866	U
87-68-3	Hexachlorobutadiene	2	0.0866	U J
77-47-4	Hexachlorocyclopentadiene	2	0.0866	U J
67-72-1	Hexachloroethane	2	0.0866	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0866	U
78-59-1	Isophorone	2	0.0866	U
91-20-3	Naphthalene	2	0.0866	U
98-95-3	Nitrobenzene	2	0.0866	U
62-75-9	N-Nitrosodimethylamine	2	0.0866	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0866	U
86-30-6	N-Nitrosodiphenylamine	2	0.0866	U J
87-86-5	Pentachlorophenol	2	0.0866	U
85-01-8	Phenanthrene	2	0.0866	U
108-95-2	Phenol	2	0.0866	U
129-00-0	Pyrene	2	0.0866	U
110-86-1	Pyridine	2	0.347	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.73	1.08	62.6	20 - 108	
SURR: Phenol-d6	1.73	1.10	63.5	23 - 114	
SURR: Nitrobenzene-d5	0.865	0.500	57.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-32

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-06	File ID:	BNA1027563.D
Sampled:	05/13/24 13:10	Prepared:	05/14/24 08:42	Analyzed:	05/15/24 13:08
Solids:	93.51	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BE40913	Sequence:	S4E1538	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.865	0.469	54.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.73	1.28	74.1	19 - 110	
SURR: Terphenyl-d14	0.865	0.494	57.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	277139	5.298	289533	5.304	
ISTD: Naphthalene-d8	1194480	6.367	1415557	6.373	
ISTD: Acenaphthene-d10	821455	8.215	904509	8.221	
ISTD: Phenanthrene-d10	1358326	10.174	1473094	10.18	
ISTD: Chrysene-d12	1267125	15.038	1304717	15.05	
ISTD: Perylene-d12	1348179	18.066	1310766	18.078	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-14

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-01 File ID: P7026904.D

Sampled: 05/13/24 11:45 Prepared: 05/14/24 08:39 Analyzed: 05/15/24 10:36

Solids: 92.31 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40911 Sequence: S4E1553 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0720	0.0542	75.3	30 - 150	
Tetrachloro-m-xylene	0.0720	0.0611	84.8	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID: P7026905.D

Sampled: 05/13/24 11:53 Prepared: 05/14/24 08:39 Analyzed: 05/15/24 10:53

Solids: 91.37 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE40911 Sequence: S4E1553 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0722	0.0663	91.7	30 - 150	
Tetrachloro-m-xylene	0.0722	0.0720	99.7	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-03 File ID: P7026906.D

Sampled: 05/13/24 12:00 Prepared: 05/14/24 08:39 Analyzed: 05/15/24 11:10

Solids: 93.05 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40911 Sequence: S4E1553 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0714	0.0609	85.2	30 - 150	
Tetrachloro-m-xylene	0.0714	0.0649	90.9	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-36

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-04 File ID: P7026907.D

Sampled: 05/13/24 12:05 Prepared: 05/14/24 08:39 Analyzed: 05/15/24 11:28

Solids: 92.76 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE40911 Sequence: S4E1553 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0716	0.0581	81.1	30 - 150	
Tetrachloro-m-xylene	0.0716	0.0619	86.5	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	P7026908.D
Sampled:	05/13/24 13:00	Prepared:	05/14/24 08:39	Analyzed:	05/15/24 11:45
Solids:	93.60	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BE40911	Sequence:	S4E1553	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00171	U
72-55-9	4,4'-DDE	5	0.00171	U
50-29-3	4,4'-DDT	5	0.00171	U
309-00-2	Aldrin	5	0.00171	U
319-84-6	alpha-BHC	5	0.00171	U
5103-71-9	alpha-Chlordane	5	0.00171	U
319-85-7	beta-BHC	5	0.00171	U
319-86-8	delta-BHC	5	0.00171	U
60-57-1	Dieldrin	5	0.00171	U
959-98-8	Endosulfan I	5	0.00171	U
33213-65-9	Endosulfan II	5	0.00171	U
1031-07-8	Endosulfan sulfate	5	0.00171	U
72-20-8	Endrin	5	0.00171	U
7421-93-4	Endrin aldehyde	5	0.00171	U
53494-70-5	Endrin ketone	5	0.00171	U
58-89-9	gamma-BHC (Lindane)	5	0.00171	U
5566-34-7	gamma-Chlordane	5	0.00171	U
76-44-8	Heptachlor	5	0.00171	U
1024-57-3	Heptachlor epoxide	5	0.00171	U
72-43-5	Methoxychlor	5	0.00171	U
8001-35-2	Toxaphene	5	0.171	U
57-74-9	Chlordane, total	5	0.0342	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0691	0.0580	84.0	30 - 150	
Tetrachloro-m-xylene	0.0691	0.0637	92.1	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID: P7026909.D

Sampled: 05/13/24 13:10 Prepared: 05/14/24 08:39 Analyzed: 05/15/24 12:02

Solids: 93.51 Preparation: EPA 3550C Initial/Final: 30.9 g / 10 mL

Batch: BE40911 Sequence: S4E1553 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00171	U
72-55-9	4,4'-DDE	5	0.00171	U
50-29-3	4,4'-DDT	5	0.00171	U
309-00-2	Aldrin	5	0.00171	U
319-84-6	alpha-BHC	5	0.00171	U
5103-71-9	alpha-Chlordane	5	0.00171	U
319-85-7	beta-BHC	5	0.00171	U
319-86-8	delta-BHC	5	0.00171	U
60-57-1	Dieldrin	5	0.00171	U
959-98-8	Endosulfan I	5	0.00171	U
33213-65-9	Endosulfan II	5	0.00171	U
1031-07-8	Endosulfan sulfate	5	0.00171	U
72-20-8	Endrin	5	0.00171	U
7421-93-4	Endrin aldehyde	5	0.00171	U
53494-70-5	Endrin ketone	5	0.00171	U
58-89-9	gamma-BHC (Lindane)	5	0.00171	U
5566-34-7	gamma-Chlordane	5	0.00171	U
76-44-8	Heptachlor	5	0.00171	U
1024-57-3	Heptachlor epoxide	5	0.00171	U
72-43-5	Methoxychlor	5	0.00171	U
8001-35-2	Toxaphene	5	0.171	U
57-74-9	Chlordane, total	5	0.0343	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0692	0.0526	76.1	30 - 150	
Tetrachloro-m-xylene	0.0692	0.0571	82.5	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	P1145799.D
Sampled:	05/13/24 11:45	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 16:47
Solids:	92.31	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0720	0.0543	75.5	30 - 120	
Decachlorobiphenyl	0.0720	0.0669	93.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-35

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-02	File ID:	P1145800.D
Sampled:	05/13/24 11:53	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 17:01
Solids:	91.37	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0722	0.0636	88.0	30 - 120	
Decachlorobiphenyl	0.0722	0.0719	99.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	P1145801.D
Sampled:	05/13/24 12:00	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 17:14
Solids:	93.05	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0714	0.0578	81.0	30 - 120	
Decachlorobiphenyl	0.0714	0.0600	84.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-36

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-04	File ID:	P1145802.D
Sampled:	05/13/24 12:05	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 17:28
Solids:	92.76	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0716	0.0541	75.5	30 - 120	
Decachlorobiphenyl	0.0716	0.0659	92.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	P1145803.D
Sampled:	05/13/24 13:00	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 17:41
Solids:	93.60	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0173	U
11104-28-2	Aroclor 1221	1	0.0173	U
11141-16-5	Aroclor 1232	1	0.0173	U
53469-21-9	Aroclor 1242	1	0.0173	U
12672-29-6	Aroclor 1248	1	0.0173	U
11097-69-1	Aroclor 1254	1	0.0173	U
11096-82-5	Aroclor 1260	1	0.0173	U
1336-36-3	Total PCBs	1	0.0173	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0691	0.0560	81.0	30 - 120	
Decachlorobiphenyl	0.0691	0.0660	95.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-32

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-06	File ID:	P1145804.D
Sampled:	05/13/24 13:10	Prepared:	05/14/24 08:39	Analyzed:	05/14/24 17:55
Solids:	93.51	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BE40911	Sequence:	S4E1409	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0173	U
11104-28-2	Aroclor 1221	1	0.0173	U
11141-16-5	Aroclor 1232	1	0.0173	U
53469-21-9	Aroclor 1242	1	0.0173	U
12672-29-6	Aroclor 1248	1	0.0173	U
11097-69-1	Aroclor 1254	1	0.0173	U
11096-82-5	Aroclor 1260	1	0.0173	U
1336-36-3	Total PCBs	1	0.0173	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0692	0.0505	73.0	30 - 120	
Decachlorobiphenyl	0.0692	0.0564	81.5	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-14

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-01 File ID: QBICP2-051624ARE_1-022

Sampled: 05/13/24 11:45 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:17

Solids: 92.31 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5110	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.44	1		EPA 6010D
7440-39-3	Barium	35.2	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	843	1		EPA 6010D
7440-47-3	Chromium	10.9	1		EPA 6010D
7440-48-4	Cobalt	4.51	1		EPA 6010D
7440-50-8	Copper	17.9	1		EPA 6010D
7439-89-6	Iron	9240	1		EPA 6010D
7439-92-1	Lead	3.99	1		EPA 6010D
7439-95-4	Magnesium	1630	1		EPA 6010D
7439-96-5	Manganese	313	1		EPA 6010D
7440-02-0	Nickel	9.26	1		EPA 6010D
7440-09-7	Potassium	913	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.455	1	U	EPA 6010D
7440-23-5	Sodium	82.6	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	16.8	1		EPA 6010D
7440-66-6	Zinc	22.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID: QBICP2-051624ARE_1-023

Sampled: 05/13/24 11:53 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:20

Solids: 91.37 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5310	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	1.42	1		EPA 6010D
7440-39-3	Barium	31.5	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.274	1	U	EPA 6010D
7440-70-2	Calcium	1000	1		EPA 6010D
7440-47-3	Chromium	11.5	1		EPA 6010D
7440-48-4	Cobalt	4.47	1		EPA 6010D
7440-50-8	Copper	17.3	1		EPA 6010D
7439-89-6	Iron	10300	1		EPA 6010D
7439-92-1	Lead	4.49	1		EPA 6010D
7439-95-4	Magnesium	1800	1		EPA 6010D
7439-96-5	Manganese	424	1		EPA 6010D
7440-02-0	Nickel	10.3	1		EPA 6010D
7440-09-7	Potassium	920	1		EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.460	1	U	EPA 6010D
7440-23-5	Sodium	79.9	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	15.4	1		EPA 6010D
7440-66-6	Zinc	20.0	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-03 File ID: QBICP2-051624ARE_1-024

Sampled: 05/13/24 12:00 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:24

Solids: 93.05 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4830	1		EPA 6010D
7440-36-0	Antimony	2.24	1	U	EPA 6010D
7440-38-2	Arsenic	1.36	1		EPA 6010D
7440-39-3	Barium	32.3	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.269	1	U	EPA 6010D
7440-70-2	Calcium	1200	1		EPA 6010D
7440-47-3	Chromium	9.78	1		EPA 6010D
7440-48-4	Cobalt	4.45	1		EPA 6010D
7440-50-8	Copper	16.8	1		EPA 6010D
7439-89-6	Iron	8950	1		EPA 6010D
7439-92-1	Lead	5.65	1		EPA 6010D
7439-95-4	Magnesium	1570	1		EPA 6010D
7439-96-5	Manganese	229	1		EPA 6010D
7440-02-0	Nickel	10.2	1		EPA 6010D
7440-09-7	Potassium	765	1		EPA 6010D
7782-49-2	Selenium	2.24	1	U	EPA 6010D
7440-22-4	Silver	0.451	1	U	EPA 6010D
7440-23-5	Sodium	147	1		EPA 6010D
7440-28-0	Thallium	2.24	1	U	EPA 6010D
7440-62-2	Vanadium	16.1	1		EPA 6010D
7440-66-6	Zinc	18.1	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-36

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-04 File ID: QBICP2-051624ARE_1-025

Sampled: 05/13/24 12:05 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:27

Solids: 92.76 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	3910	1		EPA 6010D
7440-36-0	Antimony	2.25	1	U	EPA 6010D
7440-38-2	Arsenic	1.47	1		EPA 6010D
7440-39-3	Barium	28.1	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	837	1		EPA 6010D
7440-47-3	Chromium	8.73	1		EPA 6010D
7440-48-4	Cobalt	3.51	1		EPA 6010D
7440-50-8	Copper	13.3	1		EPA 6010D
7439-89-6	Iron	7720	1		EPA 6010D
7439-92-1	Lead	2.94	1		EPA 6010D
7439-95-4	Magnesium	1490	1		EPA 6010D
7439-96-5	Manganese	211	1		EPA 6010D
7440-02-0	Nickel	7.17	1		EPA 6010D
7440-09-7	Potassium	757	1		EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.453	1	U	EPA 6010D
7440-23-5	Sodium	102	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	12.7	1		EPA 6010D
7440-66-6	Zinc	15.9	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-11

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-05 File ID: QBICP2-051624ARE_1-026

Sampled: 05/13/24 13:00 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:30

Solids: 93.60 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4090	1		EPA 6010D
7440-36-0	Antimony	2.23	1	U	EPA 6010D
7440-38-2	Arsenic	1.34	1	U	EPA 6010D
7440-39-3	Barium	28.0	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.267	1	U	EPA 6010D
7440-70-2	Calcium	964	1		EPA 6010D
7440-47-3	Chromium	10.1	1		EPA 6010D
7440-48-4	Cobalt	3.54	1		EPA 6010D
7440-50-8	Copper	11.7	1		EPA 6010D
7439-89-6	Iron	7540	1		EPA 6010D
7439-92-1	Lead	3.02	1		EPA 6010D
7439-95-4	Magnesium	1410	1		EPA 6010D
7439-96-5	Manganese	266	1		EPA 6010D
7440-02-0	Nickel	8.06	1		EPA 6010D
7440-09-7	Potassium	710	1		EPA 6010D
7782-49-2	Selenium	2.23	1	U	EPA 6010D
7440-22-4	Silver	0.449	1	U	EPA 6010D
7440-23-5	Sodium	75.1	1		EPA 6010D
7440-28-0	Thallium	2.23	1	U	EPA 6010D
7440-62-2	Vanadium	11.8	1		EPA 6010D
7440-66-6	Zinc	15.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID: QBICP2-051624ARE_1-027

Sampled: 05/13/24 13:10 Prepared: 05/15/24 13:19 Analyzed: 05/16/24 12:33

Solids: 93.51 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41029 Sequence: S4E1640 Calibration: 05/16/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	3930	1		EPA 6010D
7440-36-0	Antimony	2.23	1	U	EPA 6010D
7440-38-2	Arsenic	1.34	1	U	EPA 6010D
7440-39-3	Barium	25.1	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.267	1	U	EPA 6010D
7440-70-2	Calcium	1070	1		EPA 6010D
7440-47-3	Chromium	9.88	1		EPA 6010D
7440-48-4	Cobalt	3.59	1		EPA 6010D
7440-50-8	Copper	16.4	1		EPA 6010D
7439-89-6	Iron	7390	1		EPA 6010D
7439-92-1	Lead	2.46	1		EPA 6010D
7439-95-4	Magnesium	1730	1		EPA 6010D
7439-96-5	Manganese	216	1		EPA 6010D
7440-02-0	Nickel	7.23	1		EPA 6010D
7440-09-7	Potassium	806	1		EPA 6010D
7782-49-2	Selenium	2.23	1	U	EPA 6010D
7440-22-4	Silver	0.449	1	U	EPA 6010D
7440-23-5	Sodium	76.0	1		EPA 6010D
7440-28-0	Thallium	2.23	1	U	EPA 6010D
7440-62-2	Vanadium	13.2	1		EPA 6010D
7440-66-6	Zinc	15.6	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	
Sampled:	05/13/24 11:45	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	92.31	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-35

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-02	File ID:	
Sampled:	05/13/24 11:53	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	91.37	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0328	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	
Sampled:	05/13/24 12:00	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	93.05	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0322	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-36

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-04	File ID:	
Sampled:	05/13/24 12:05	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	92.76	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0323	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	
Sampled:	05/13/24 13:00	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	93.60	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0320	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-32

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-06	File ID:	
Sampled:	05/13/24 13:10	Prepared:	05/15/24 08:53	Analyzed:	05/16/24 14:52
Solids:	93.51	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41014	Sequence:	S4E1634	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0321	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-14

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-01	File ID:	
Sampled:	05/13/24 11:45	Prepared:	05/14/24 13:05	Analyzed:	05/14/24 15:23
Solids:	92.31	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE40897	Sequence:		Calibration:	05/14/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-35

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-02 File ID:

Sampled: 05/13/24 11:53 Prepared: 05/14/24 13:05 Analyzed: 05/14/24 15:23

Solids: 91.37 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40897 Sequence: Calibration: 05/14/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.4	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-03	File ID:	
Sampled:	05/13/24 12:00	Prepared:	05/14/24 13:05	Analyzed:	05/14/24 15:23
Solids:	93.05	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE40897	Sequence:		Calibration:	05/14/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-36

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-04 File ID:

Sampled: 05/13/24 12:05 Prepared: 05/14/24 13:05 Analyzed: 05/14/24 15:23

Solids: 92.76 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40897 Sequence: Calibration: 05/14/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-11

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0842
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0842-05	File ID:	
Sampled:	05/13/24 13:00	Prepared:	05/14/24 13:05	Analyzed:	05/14/24 15:23
Solids:	93.60	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE40897	Sequence:		Calibration:	05/14/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.6	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-32

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0842

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E0842-06 File ID:

Sampled: 05/13/24 13:10 Prepared: 05/14/24 13:05 Analyzed: 05/14/24 15:23

Solids: 93.51 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40897 Sequence: Calibration: 05/14/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.5	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/20/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24E0842

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 13, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E0842-01	EP-14	Soil	05/13/2024	05/13/2024
24E0842-02	EP-35	Soil	05/13/2024	05/13/2024
24E0842-03	EP-15	Soil	05/13/2024	05/13/2024
24E0842-04	EP-36	Soil	05/13/2024	05/13/2024
24E0842-05	EP-11	Soil	05/13/2024	05/13/2024
24E0842-06	EP-32	Soil	05/13/2024	05/13/2024
24E0842-07	TB_05132024	Water	05/13/2024	05/13/2024

Work Order Narrative

York Analytical Work Order No.: 24E0842

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/13/2024 7:55 PM

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{5.8}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-14	24E0842-01	Soil	05/13/2024 11:45 AM	05/13/2024 7:55 PM
EP-35	24E0842-02	Soil	05/13/2024 11:53 AM	05/13/2024 7:55 PM
EP-15	24E0842-03	Soil	05/13/2024 12:00 PM	05/13/2024 7:55 PM
EP-36	24E0842-04	Soil	05/13/2024 12:05 PM	05/13/2024 7:55 PM
EP-11	24E0842-05	Soil	05/13/2024 1:00 PM	05/13/2024 7:55 PM
EP-32	24E0842-06	Soil	05/13/2024 1:10 PM	05/13/2024 7:55 PM
TB_05132024	24E0842-07	Water	05/13/2024 1:10 PM	05/13/2024 7:55 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24E0842

Page 1 of 1

Report To:
Company: Yu & Associates
Address: 611 River Drive, Elmwood Park, NJ 07407
Phone.: 201-873-7543
Contact: Chengyu Hang
E-mail: Chang@yu-associates.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: 22254 43-25 52nd St

PO Number: 22254

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TCL VOCs	TCL SVOCs	TAL Metals	PCBs/Pesticides	Grab or Comp.
EP-14	5/13/24	11:45	S	4		1								✓	✓	✓	✓	
EP-35		11:53		4		1								✓	✓	✓	✓	
EP-15		12:00		4		1								✓	✓	✓	✓	
EP-36		12:05		4		1								✓	✓	✓	✓	
EP-11		13:00		4		1								✓	✓	✓	✓	
EP-32		13:10		4		1								✓	✓	✓	✓	
TB_05132024			W		2									✓				

Analyses Requested

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day ✓; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day); PFAS Standard 7-10 Day

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered

Lab Filtered

Comments: Rush turn-around time for metals, VOCs only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N (N/A)
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Matthew O'Rourke, Yu & Associates; Date/Time: 5/13/24 14:22	1. Samples Received by / Company: 5/13/24 1423	2. Samples Relinquished by / Company: 5/13/24 1754
2. Samples Received by / Company: 05132024 1754; Date/Time: on ice 3:1	3. Samples Relinquished by / Company: 05132024 1800	3. Samples Received by / Company: 5/13/24 1800
4. Samples Relinquished by / Company: Renee Duran; Date/Time: 5/13/24 1954	4. Samples Received by / Company: Date/Time:	Samples Received in LAB by: SR; Date/Time: 5/13/24 19:55; Temperature: 5.8 Degrees C

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DATA USABILITY SUMMARY REPORT

FOR

42-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E0930

Sampling Date: May 14, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 42-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E0930
Date: August 27, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-9	24E0930-01	Soil	X	X	X
EP-30	24E0930-02	Soil	X	X	X
EP-10	24E0930-03	Soil	X	X	X
EP-31	24E0930-04	Soil	X	X	X
EP-19	24E0930-05	Soil	X	X	X
EP-40	24E0930-06	Soil	X	X	X
EB-05142024	24E0930-07	Water	X	X	X
TB-05142024	24E0930-08	Water	X		

The sample delivery group (SDG) contained results for six soil samples, one trip blank and one equipment blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8270E SIM (SVOA – Equipment Blank only); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 6020B (Metals – Equipment Blank); 7473B (Mercury - Soils); and 7470A (Mercury – Equipment Blank). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.

4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: VOA - The following was qualified non-detects due to method blank contamination;

Sample ID	Compound	Qualifier
24E0930-06	Methylene chloride	U

6. Calibration Quality Control: VOA – The percent difference (%D) in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01, 24E0930-02, 24E0930-04	Tetrachloroethylene	J
	Acetone	UJ
24E0930-03, 24E0930-05	Acetone Tetrachloroethylene	UJ
24E0930-06	Acetone	J
	Tetrachloroethylene	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-05	Bromomethane Chloroethane Dichlorofluoromethane Methylene chloride Vinyl chloride	UJ
24E0930-06	Bromomethane Chloroethane Dichlorodifluoromethane Vinyl chloride	UJ

SVOA – The percent difference (%D) in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-06	2,4-Dimethylphenol Hexachlorocyclopentadiene	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-06	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Benzidine Benzoic Acid	UJ

Pest - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-06	gamma-Chlordane	UJ

PCB - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-06	Aroclor 1260	UJ

7. Laboratory Control Sample (LCS): Metals – The percent recovery (%R) was below QC limits for Potassium which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24E0930-01 to 24E0930-06	Potassium	J-

8. Surrogates: The results were acceptable.
9. Internal Standards: VOA – The area response was below the extended lower acceptance limit for one sample which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24E0930-06	All detected compounds	J+
	All non-detected compounds	R

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** The results are acceptable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable.

14. Serial Dilution: The results were acceptable.

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-01	File ID:	V5439580.D
Sampled:	05/14/24 12:00	Prepared:	05/15/24 09:00	Analyzed:	05/15/24 14:00
Solids:	91.33	Preparation:	EPA 5035A	Initial/Final:	5.29 g / 5 ml
Batch:	BE40977	Sequence:	S4E1607	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0052	U
71-55-6	1,1,1-Trichloroethane	1	0.0052	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0052	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0052	U
79-00-5	1,1,2-Trichloroethane	1	0.0052	U
75-34-3	1,1-Dichloroethane	1	0.0052	U
75-35-4	1,1-Dichloroethylene	1	0.0052	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0052	U
96-18-4	1,2,3-Trichloropropane	1	0.0052	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0052	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0052	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0052	U
106-93-4	1,2-Dibromoethane	1	0.0052	U
95-50-1	1,2-Dichlorobenzene	1	0.0052	U
107-06-2	1,2-Dichloroethane	1	0.0052	U
78-87-5	1,2-Dichloropropane	1	0.0052	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0052	U
541-73-1	1,3-Dichlorobenzene	1	0.0052	U
106-46-7	1,4-Dichlorobenzene	1	0.0052	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0052	U
591-78-6	2-Hexanone	1	0.0052	U
108-10-1	4-Methyl-2-pentanone	1	0.0052	U
67-64-1	Acetone	1	0.010	UJ
107-02-8	Acrolein	1	0.010	U
107-13-1	Acrylonitrile	1	0.0052	U
71-43-2	Benzene	1	0.0052	U
74-97-5	Bromochloromethane	1	0.0052	U
75-27-4	Bromodichloromethane	1	0.0052	U
75-25-2	Bromoform	1	0.0052	U
74-83-9	Bromomethane	1	0.0052	UJ
75-15-0	Carbon disulfide	1	0.0052	U
56-23-5	Carbon tetrachloride	1	0.0052	U
108-90-7	Chlorobenzene	1	0.0052	U
75-00-3	Chloroethane	1	0.0052	UJ
67-66-3	Chloroform	1	0.0052	U
74-87-3	Chloromethane	1	0.0052	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0052	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0052	U
110-82-7	Cyclohexane	1	0.0052	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-01 File ID: V5439580.D

Sampled: 05/14/24 12:00 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 14:00

Solids: 91.33 Preparation: EPA 5035A Initial/Final: 5.29 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0052	U
74-95-3	Dibromomethane	1	0.0052	U
75-71-8	Dichlorodifluoromethane	1	0.0052	UJ
100-41-4	Ethyl Benzene	1	0.0052	U
87-68-3	Hexachlorobutadiene	1	0.0052	U
98-82-8	Isopropylbenzene	1	0.0052	U
79-20-9	Methyl acetate	1	0.0052	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0052	U
108-87-2	Methylcyclohexane	1	0.0052	U
75-09-2	Methylene chloride	1	0.010	UJ
104-51-8	n-Butylbenzene	1	0.0052	U
103-65-1	n-Propylbenzene	1	0.0052	U
95-47-6	o-Xylene	1	0.0052	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0052	U
135-98-8	sec-Butylbenzene	1	0.0052	U
100-42-5	Styrene	1	0.0052	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0052	U
98-06-6	tert-Butylbenzene	1	0.0052	U
127-18-4	Tetrachloroethylene	1	0.0076	J
108-88-3	Toluene	1	0.0052	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0052	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0052	U
79-01-6	Trichloroethylene	1	0.0052	U
75-69-4	Trichlorofluoromethane	1	0.0052	U
75-01-4	Vinyl Chloride	1	0.0052	UJ
1330-20-7	Xylenes, Total	1	0.016	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.1	98.1	77 - 125	
SURR: Toluene-d8	50.0	49.2	98.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.0	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	186095	6.029	192741	6.029	
ISTD: Chlorobenzene-d5	634927	9.064	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	241289	12.044	292354	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	V5439581.D
Sampled:	05/14/24 12:07	Prepared:	05/15/24 09:00	Analyzed:	05/15/24 14:26
Solids:	88.95	Preparation:	EPA 5035A	Initial/Final:	5.72 g / 5 ml
Batch:	BE40977	Sequence:	S4E1607	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0049	U
71-55-6	1,1,1-Trichloroethane	1	0.0049	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0049	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0049	U
79-00-5	1,1,2-Trichloroethane	1	0.0049	U
75-34-3	1,1-Dichloroethane	1	0.0049	U
75-35-4	1,1-Dichloroethylene	1	0.0049	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0049	U
96-18-4	1,2,3-Trichloropropane	1	0.0049	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0049	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0049	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0049	U
106-93-4	1,2-Dibromoethane	1	0.0049	U
95-50-1	1,2-Dichlorobenzene	1	0.0049	U
107-06-2	1,2-Dichloroethane	1	0.0049	U
78-87-5	1,2-Dichloropropane	1	0.0049	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	U
541-73-1	1,3-Dichlorobenzene	1	0.0049	U
106-46-7	1,4-Dichlorobenzene	1	0.0049	U
123-91-1	1,4-Dioxane	1	0.098	U
78-93-3	2-Butanone	1	0.0049	U
591-78-6	2-Hexanone	1	0.0049	U
108-10-1	4-Methyl-2-pentanone	1	0.0049	U
67-64-1	Acetone	1	0.0098	U J
107-02-8	Acrolein	1	0.0098	U
107-13-1	Acrylonitrile	1	0.0049	U
71-43-2	Benzene	1	0.0049	U
74-97-5	Bromochloromethane	1	0.0049	U
75-27-4	Bromodichloromethane	1	0.0049	U
75-25-2	Bromoform	1	0.0049	U
74-83-9	Bromomethane	1	0.0049	U J
75-15-0	Carbon disulfide	1	0.0049	U
56-23-5	Carbon tetrachloride	1	0.0049	U
108-90-7	Chlorobenzene	1	0.0049	U
75-00-3	Chloroethane	1	0.0049	U J
67-66-3	Chloroform	1	0.0049	U
74-87-3	Chloromethane	1	0.0049	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0049	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0049	U
110-82-7	Cyclohexane	1	0.0049	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-30

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-02 File ID: V5439581.D

Sampled: 05/14/24 12:07 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 14:26

Solids: 88.95 Preparation: EPA 5035A Initial/Final: 5.72 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0049	U
74-95-3	Dibromomethane	1	0.0049	U
75-71-8	Dichlorodifluoromethane	1	0.0049	UJ
100-41-4	Ethyl Benzene	1	0.0049	U
87-68-3	Hexachlorobutadiene	1	0.0049	U
98-82-8	Isopropylbenzene	1	0.0049	U
79-20-9	Methyl acetate	1	0.0049	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0049	U
108-87-2	Methylcyclohexane	1	0.0049	U
75-09-2	Methylene chloride	1	0.0098	UJ
104-51-8	n-Butylbenzene	1	0.0049	U
103-65-1	n-Propylbenzene	1	0.0049	U
95-47-6	o-Xylene	1	0.0049	U
179601-23-1	p- & m- Xylenes	1	0.0098	U
99-87-6	p-Isopropyltoluene	1	0.0049	U
135-98-8	sec-Butylbenzene	1	0.0049	U
100-42-5	Styrene	1	0.0049	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0049	U
98-06-6	tert-Butylbenzene	1	0.0049	U
127-18-4	Tetrachloroethylene	1	0.052	J
108-88-3	Toluene	1	0.0049	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0049	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0049	U
79-01-6	Trichloroethylene	1	0.0049	U
75-69-4	Trichlorofluoromethane	1	0.0049	U
75-01-4	Vinyl Chloride	1	0.0049	UJ
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.6	97.2	77 - 125	
SURR: Toluene-d8	50.0	48.8	97.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.6	107	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177880	6.029	192741	6.029	
ISTD: Chlorobenzene-d5	610687	9.061	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	228585	12.045	292354	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID: V5439582.D

Sampled: 05/14/24 12:15 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 14:52

Solids: 92.55 Preparation: EPA 5035A Initial/Final: 5.32 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U
71-55-6	1,1,1-Trichloroethane	1	0.0051	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U
79-00-5	1,1,2-Trichloroethane	1	0.0051	U
75-34-3	1,1-Dichloroethane	1	0.0051	U
75-35-4	1,1-Dichloroethylene	1	0.0051	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U
96-18-4	1,2,3-Trichloropropane	1	0.0051	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0051	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U
106-93-4	1,2-Dibromoethane	1	0.0051	U
95-50-1	1,2-Dichlorobenzene	1	0.0051	U
107-06-2	1,2-Dichloroethane	1	0.0051	U
78-87-5	1,2-Dichloropropane	1	0.0051	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0051	U
541-73-1	1,3-Dichlorobenzene	1	0.0051	U
106-46-7	1,4-Dichlorobenzene	1	0.0051	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0051	U
591-78-6	2-Hexanone	1	0.0051	U
108-10-1	4-Methyl-2-pentanone	1	0.0051	U
67-64-1	Acetone	1	0.010	UJ
107-02-8	Acrolein	1	0.010	U
107-13-1	Acrylonitrile	1	0.0051	U
71-43-2	Benzene	1	0.0051	U
74-97-5	Bromochloromethane	1	0.0051	U
75-27-4	Bromodichloromethane	1	0.0051	U
75-25-2	Bromoform	1	0.0051	U
74-83-9	Bromomethane	1	0.0051	UJ
75-15-0	Carbon disulfide	1	0.0051	U
56-23-5	Carbon tetrachloride	1	0.0051	U
108-90-7	Chlorobenzene	1	0.0051	U
75-00-3	Chloroethane	1	0.0051	UJ
67-66-3	Chloroform	1	0.0051	U
74-87-3	Chloromethane	1	0.0051	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U
110-82-7	Cyclohexane	1	0.0051	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID: V5439582.D

Sampled: 05/14/24 12:15 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 14:52

Solids: 92.55 Preparation: EPA 5035A Initial/Final: 5.32 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0051	U
74-95-3	Dibromomethane	1	0.0051	U
75-71-8	Dichlorodifluoromethane	1	0.0051	U J
100-41-4	Ethyl Benzene	1	0.0051	U
87-68-3	Hexachlorobutadiene	1	0.0051	U
98-82-8	Isopropylbenzene	1	0.0051	U
79-20-9	Methyl acetate	1	0.0051	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U
108-87-2	Methylcyclohexane	1	0.0051	U
75-09-2	Methylene chloride	1	0.010	U J
104-51-8	n-Butylbenzene	1	0.0051	U
103-65-1	n-Propylbenzene	1	0.0051	U
95-47-6	o-Xylene	1	0.0051	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0051	U
135-98-8	sec-Butylbenzene	1	0.0051	U
100-42-5	Styrene	1	0.0051	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U
98-06-6	tert-Butylbenzene	1	0.0051	U
127-18-4	Tetrachloroethylene	1	0.0051	U J
108-88-3	Toluene	1	0.0051	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U
79-01-6	Trichloroethylene	1	0.0051	U
75-69-4	Trichlorofluoromethane	1	0.0051	U
75-01-4	Vinyl Chloride	1	0.0051	U J
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.6	103	77 - 125	
SURR: Toluene-d8	50.0	49.3	98.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.9	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	162449	6.026	192741	6.029	
ISTD: Chlorobenzene-d5	559871	9.061	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	213132	12.048	292354	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	V5439583.D
Sampled:	05/14/24 12:20	Prepared:	05/15/24 09:00	Analyzed:	05/15/24 15:19
Solids:	91.49	Preparation:	EPA 5035A	Initial/Final:	5.15 g / 5 ml
Batch:	BE40977	Sequence:	S4E1607	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0053	U
71-55-6	1,1,1-Trichloroethane	1	0.0053	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0053	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0053	U
79-00-5	1,1,2-Trichloroethane	1	0.0053	U
75-34-3	1,1-Dichloroethane	1	0.0053	U
75-35-4	1,1-Dichloroethylene	1	0.0053	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0053	U
96-18-4	1,2,3-Trichloropropane	1	0.0053	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0053	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0053	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0053	U
106-93-4	1,2-Dibromoethane	1	0.0053	U
95-50-1	1,2-Dichlorobenzene	1	0.0053	U
107-06-2	1,2-Dichloroethane	1	0.0053	U
78-87-5	1,2-Dichloropropane	1	0.0053	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0053	U
541-73-1	1,3-Dichlorobenzene	1	0.0053	U
106-46-7	1,4-Dichlorobenzene	1	0.0053	U
123-91-1	1,4-Dioxane	1	0.11	U
78-93-3	2-Butanone	1	0.0053	U
591-78-6	2-Hexanone	1	0.0053	U
108-10-1	4-Methyl-2-pentanone	1	0.0053	U
67-64-1	Acetone	1	0.011	U J
107-02-8	Acrolein	1	0.011	U
107-13-1	Acrylonitrile	1	0.0053	U
71-43-2	Benzene	1	0.0053	U
74-97-5	Bromochloromethane	1	0.0053	U
75-27-4	Bromodichloromethane	1	0.0053	U
75-25-2	Bromoform	1	0.0053	U
74-83-9	Bromomethane	1	0.0053	U J
75-15-0	Carbon disulfide	1	0.0053	U
56-23-5	Carbon tetrachloride	1	0.0053	U
108-90-7	Chlorobenzene	1	0.0053	U
75-00-3	Chloroethane	1	0.0053	U J
67-66-3	Chloroform	1	0.0053	U
74-87-3	Chloromethane	1	0.0053	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0053	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0053	U
110-82-7	Cyclohexane	1	0.0053	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-31

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-04 File ID: V5439583.D

Sampled: 05/14/24 12:20 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 15:19

Solids: 91.49 Preparation: EPA 5035A Initial/Final: 5.15 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0053	U
74-95-3	Dibromomethane	1	0.0053	U
75-71-8	Dichlorodifluoromethane	1	0.0053	UJ
100-41-4	Ethyl Benzene	1	0.0053	U
87-68-3	Hexachlorobutadiene	1	0.0053	U
98-82-8	Isopropylbenzene	1	0.0053	U
79-20-9	Methyl acetate	1	0.0053	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0053	U
108-87-2	Methylcyclohexane	1	0.0053	U
75-09-2	Methylene chloride	1	0.011	UJ
104-51-8	n-Butylbenzene	1	0.0053	U
103-65-1	n-Propylbenzene	1	0.0053	U
95-47-6	o-Xylene	1	0.0053	U
179601-23-1	p- & m- Xylenes	1	0.011	U
99-87-6	p-Isopropyltoluene	1	0.0053	U
135-98-8	sec-Butylbenzene	1	0.0053	U
100-42-5	Styrene	1	0.0053	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0053	U
98-06-6	tert-Butylbenzene	1	0.0053	U
127-18-4	Tetrachloroethylene	1	0.0037	J
108-88-3	Toluene	1	0.0053	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0053	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0053	U
79-01-6	Trichloroethylene	1	0.0053	U
75-69-4	Trichlorofluoromethane	1	0.0053	U
75-01-4	Vinyl Chloride	1	0.0053	UJ
1330-20-7	Xylenes, Total	1	0.016	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.9	102	77 - 125	
SURR: Toluene-d8	50.0	49.1	98.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.3	105	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	167561	6.026	192741	6.029	
ISTD: Chlorobenzene-d5	574019	9.061	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	221547	12.048	292354	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-19

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-05	File ID:	V5439584.D
Sampled:	05/14/24 12:26	Prepared:	05/15/24 09:00	Analyzed:	05/15/24 15:45
Solids:	93.46	Preparation:	EPA 5035A	Initial/Final:	4.04 g / 5 ml
Batch:	BE40977	Sequence:	S4E1607	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0066	U
71-55-6	1,1,1-Trichloroethane	1	0.0066	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0066	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0066	U
79-00-5	1,1,2-Trichloroethane	1	0.0066	U
75-34-3	1,1-Dichloroethane	1	0.0066	U
75-35-4	1,1-Dichloroethylene	1	0.0066	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0066	U
96-18-4	1,2,3-Trichloropropane	1	0.0066	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0066	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0066	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0066	U
106-93-4	1,2-Dibromoethane	1	0.0066	U
95-50-1	1,2-Dichlorobenzene	1	0.0066	U
107-06-2	1,2-Dichloroethane	1	0.0066	U
78-87-5	1,2-Dichloropropane	1	0.0066	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0066	U
541-73-1	1,3-Dichlorobenzene	1	0.0066	U
106-46-7	1,4-Dichlorobenzene	1	0.0066	U
123-91-1	1,4-Dioxane	1	0.13	U
78-93-3	2-Butanone	1	0.0066	U
591-78-6	2-Hexanone	1	0.0066	U
108-10-1	4-Methyl-2-pentanone	1	0.0066	U
67-64-1	Acetone	1	0.013	U J
107-02-8	Acrolein	1	0.013	U
107-13-1	Acrylonitrile	1	0.0066	U
71-43-2	Benzene	1	0.0066	U
74-97-5	Bromochloromethane	1	0.0066	U
75-27-4	Bromodichloromethane	1	0.0066	U
75-25-2	Bromoform	1	0.0066	U
74-83-9	Bromomethane	1	0.0066	U J
75-15-0	Carbon disulfide	1	0.0066	U
56-23-5	Carbon tetrachloride	1	0.0066	U
108-90-7	Chlorobenzene	1	0.0066	U
75-00-3	Chloroethane	1	0.0066	U J
67-66-3	Chloroform	1	0.0066	U
74-87-3	Chloromethane	1	0.0066	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0066	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0066	U
110-82-7	Cyclohexane	1	0.0066	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-19

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-05 File ID: V5439584.D

Sampled: 05/14/24 12:26 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 15:45

Solids: 93.46 Preparation: EPA 5035A Initial/Final: 4.04 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0066	U
74-95-3	Dibromomethane	1	0.0066	U
75-71-8	Dichlorodifluoromethane	1	0.0066	UJ
100-41-4	Ethyl Benzene	1	0.0066	U
87-68-3	Hexachlorobutadiene	1	0.0066	U
98-82-8	Isopropylbenzene	1	0.0066	U
79-20-9	Methyl acetate	1	0.0066	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0066	U
108-87-2	Methylcyclohexane	1	0.0066	U
75-09-2	Methylene chloride	1	0.013	UJ
104-51-8	n-Butylbenzene	1	0.0066	U
103-65-1	n-Propylbenzene	1	0.0066	U
95-47-6	o-Xylene	1	0.0066	U
179601-23-1	p- & m- Xylenes	1	0.013	U
99-87-6	p-Isopropyltoluene	1	0.0066	U
135-98-8	sec-Butylbenzene	1	0.0066	U
100-42-5	Styrene	1	0.0066	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0066	U
98-06-6	tert-Butylbenzene	1	0.0066	U
127-18-4	Tetrachloroethylene	1	0.0066	UJ
108-88-3	Toluene	1	0.0066	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0066	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0066	U
79-01-6	Trichloroethylene	1	0.0066	U
75-69-4	Trichlorofluoromethane	1	0.0066	U
75-01-4	Vinyl Chloride	1	0.0066	UJ
1330-20-7	Xylenes, Total	1	0.020	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.1	100	77 - 125	
SURR: Toluene-d8	50.0	48.8	97.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	169946	6.029	192741	6.029	
ISTD: Chlorobenzene-d5	590808	9.064	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	236167	12.048	292354	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-40

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-06 File ID: V5439585.D

Sampled: 05/14/24 12:32 Prepared: 05/15/24 09:00 Analyzed: 05/15/24 16:11

Solids: 91.40 Preparation: EPA 5035A Initial/Final: 5.51 g / 5 ml

Batch: BE40977 Sequence: S4E1607 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0050	U R
71-55-6	1,1,1-Trichloroethane	1	0.0050	U R
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0050	U R
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0050	U R
79-00-5	1,1,2-Trichloroethane	1	0.0050	U R
75-34-3	1,1-Dichloroethane	1	0.0050	U R
75-35-4	1,1-Dichloroethylene	1	0.0050	U R
87-61-6	1,2,3-Trichlorobenzene	1	0.0050	U R
96-18-4	1,2,3-Trichloropropane	1	0.0050	U R
120-82-1	1,2,4-Trichlorobenzene	1	0.0050	U R
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0050	U R
106-93-4	1,2-Dibromoethane	1	0.0050	U R
95-50-1	1,2-Dichlorobenzene	1	0.0050	U R
107-06-2	1,2-Dichloroethane	1	0.0050	U R
78-87-5	1,2-Dichloropropane	1	0.0050	U R
541-73-1	1,3-Dichlorobenzene	1	0.0050	U R
106-46-7	1,4-Dichlorobenzene	1	0.0050	U R
123-91-1	1,4-Dioxane	1	0.099	U R
78-93-3	2-Butanone	1	0.0050	U R
591-78-6	2-Hexanone	1	0.0050	U R
108-10-1	4-Methyl-2-pentanone	1	0.0050	U R
67-64-1	Acetone	1	0.016	J+
107-02-8	Acrolein	1	0.0099	U R
107-13-1	Acrylonitrile	1	0.0050	U R
71-43-2	Benzene	1	0.0050	U R
74-97-5	Bromochloromethane	1	0.0050	U R
75-27-4	Bromodichloromethane	1	0.0050	U R
75-25-2	Bromoform	1	0.0050	U R
74-83-9	Bromomethane	1	0.0050	U R
75-15-0	Carbon disulfide	1	0.0050	U R
56-23-5	Carbon tetrachloride	1	0.0050	U R
108-90-7	Chlorobenzene	1	0.0050	U R
75-00-3	Chloroethane	1	0.0050	U R
67-66-3	Chloroform	1	0.0050	U R
74-87-3	Chloromethane	1	0.0050	U R
10061-01-5	cis-1,3-Dichloropropylene	1	0.0050	U R
110-82-7	Cyclohexane	1	0.031	J+
124-48-1	Dibromochloromethane	1	0.0050	U R
74-95-3	Dibromomethane	1	0.0050	U R
75-71-8	Dichlorodifluoromethane	1	0.0050	U R

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	V5439585.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 09:00	Analyzed:	05/15/24 16:11
Solids:	91.40	Preparation:	EPA 5035A	Initial/Final:	5.51 g / 5 ml
Batch:	BE40977	Sequence:	S4E1607	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
87-68-3	Hexachlorobutadiene	1	0.0050	U R
79-20-9	Methyl acetate	1	0.0050	U R
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0050	U R
75-09-2	Methylene chloride	1	0.0065	JB U
100-42-5	Styrene	1	0.0050	U R
75-65-0	tert-Butyl alcohol (TBA)	1	0.0050	U R
98-06-6	tert-Butylbenzene	1	0.0050	U R
127-18-4	Tetrachloroethylene	1	0.0050	U R
108-88-3	Toluene	1	0.0050	U R
156-60-5	trans-1,2-Dichloroethylene	1	0.0050	U R
10061-02-6	trans-1,3-Dichloropropylene	1	0.0050	U R
79-01-6	Trichloroethylene	1	0.015	J+
75-69-4	Trichlorofluoromethane	1	0.0050	U R
75-01-4	Vinyl Chloride	1	0.0050	U R

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	56.2	112	77 - 125	
SURR: Toluene-d8	50.0	55.3	111	85 - 120	
SURR: p-Bromofluorobenzene	50.0	48.8	97.5	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	139773	6.029	192741	6.029	
ISTD: Chlorobenzene-d5	406726	9.067	677323	9.061	
ISTD: 1,2-Dichlorobenzene-d4	50256	12.045	292354	12.048	*

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-40

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-06RE1 File ID: V3182698.D

Sampled: 05/14/24 12:32 Prepared: 05/16/24 09:00 Analyzed: 05/16/24 12:48

Solids: 91.40 Preparation: EPA 5035A Initial/Final: 5.67 g / 5 ml

Batch: BE41102 Sequence: S4E1707 Calibration: SE40013 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-67-8	1,3,5-Trimethylbenzene	100	23	D
156-59-2	cis-1,2-Dichloroethylene	100	0.91	D
100-41-4	Ethyl Benzene	100	4.4	D
98-82-8	Isopropylbenzene	100	2.7	D
108-87-2	Methylcyclohexane	100	1.1	D
104-51-8	n-Butylbenzene	100	8.6	D
103-65-1	n-Propylbenzene	100	9.9	D
95-47-6	o-Xylene	100	1.5	D
179601-23-1	p- & m- Xylenes	100	1.7	D
99-87-6	p-Isopropyltoluene	100	2.8	D
135-98-8	sec-Butylbenzene	100	4.9	D
1330-20-7	Xylenes, Total	100	3.2	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.3	92.6	77 - 125	D
SURR: Toluene-d8	50.0	52.9	106	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	56.9	114	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	241943	5.688	255976	5.689	
ISTD: Chlorobenzene-d5	853757	8.708	917045	8.708	
ISTD: 1,2-Dichlorobenzene-d4	339138	11.689	356970	11.689	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06RE2	File ID:	V3182722.D
Sampled:	05/14/24 12:32	Prepared:	05/17/24 09:00	Analyzed:	05/17/24 11:21
Solids:	91.40	Preparation:	EPA 5035A	Initial/Final:	5.67 g / 5 ml
Batch:	BE41193	Sequence:	S4E1710	Calibration:	SE40013
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-63-6	1,2,4-Trimethylbenzene	500	86	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.9	93.8	77 - 125	D
SURR: Toluene-d8	50.0	53.0	106	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	51.4	103	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	272704	5.689	279816	5.689	
ISTD: Chlorobenzene-d5	966730	8.708	999863	8.708	
ISTD: 1,2-Dichlorobenzene-d4	388037	11.686	384717	11.689	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	V10C04809.D
Sampled:	05/14/24 13:45	Prepared:	05/16/24 08:00	Analyzed:	05/16/24 15:36
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40997	Sequence:	S4E1620	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.760	
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	8.93	
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	V10C04809.D
Sampled:	05/14/24 13:45	Prepared:	05/16/24 08:00	Analyzed:	05/16/24 15:36
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40997	Sequence:	S4E1620	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.43	94.3	69 - 130	
SURR: Toluene-d8	10.0	9.80	98.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.95	99.5	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	477094	6.431	487023	6.431	
ISTD: Chlorobenzene-d5	1670738	9.492	1712318	9.489	
ISTD: 1,2-Dichlorobenzene-d4	517634	12.508	554724	12.508	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-08	File ID:	V10C04811.D
Sampled:	05/14/24 15:15	Prepared:	05/16/24 08:00	Analyzed:	05/16/24 16:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40997	Sequence:	S4E1620	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-08	File ID:	V10C04811.D
Sampled:	05/14/24 15:15	Prepared:	05/16/24 08:00	Analyzed:	05/16/24 16:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE40997	Sequence:	S4E1620	Calibration:	SE40010
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.51	95.1	69 - 130	
SURR: Toluene-d8	10.0	9.81	98.1	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	473031	6.431	487023	6.431	
ISTD: Chlorobenzene-d5	1670055	9.492	1712318	9.489	
ISTD: 1,2-Dichlorobenzene-d4	517456	12.508	554724	12.508	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-01	File ID:	E70354565.D
Sampled:	05/14/24 12:00	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 14:23
Solids:	91.33	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0907	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0907	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0907	U
88-06-2	2,4,6-Trichlorophenol	2	0.0907	U
120-83-2	2,4-Dichlorophenol	2	0.0907	U
105-67-9	2,4-Dimethylphenol	2	0.0907	U J
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0907	U
606-20-2	2,6-Dinitrotoluene	2	0.0907	U
91-58-7	2-Chloronaphthalene	2	0.0907	U
95-57-8	2-Chlorophenol	2	0.0907	U
91-57-6	2-Methylnaphthalene	2	0.0907	U
95-48-7	2-Methylphenol	2	0.0907	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0907	U
65794-96-9	3- & 4-Methylphenols	2	0.0907	U
91-94-1	3,3-Dichlorobenzidine	2	0.0907	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0907	U
59-50-7	4-Chloro-3-methylphenol	2	0.0907	U
106-47-8	4-Chloroaniline	2	0.0907	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0907	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0907	U
208-96-8	Acenaphthylene	2	0.0907	U
98-86-2	Acetophenone	2	0.0907	U
62-53-3	Aniline	2	0.363	U
120-12-7	Anthracene	2	0.0907	U
1912-24-9	Atrazine	2	0.0907	U
100-52-7	Benzaldehyde	2	0.0907	U
92-87-5	Benzidine	2	0.363	U J
56-55-3	Benzo(a)anthracene	2	0.0907	U
50-32-8	Benzo(a)pyrene	2	0.0907	U
205-99-2	Benzo(b)fluoranthene	2	0.0907	U
191-24-2	Benzo(g,h,i)perylene	2	0.0907	U
207-08-9	Benzo(k)fluoranthene	2	0.0907	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-01 File ID: E70354565.D

Sampled: 05/14/24 12:00 Prepared: 05/15/24 08:24 Analyzed: 05/16/24 14:23

Solids: 91.33 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BE40999 Sequence: S4E1628 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0907	UJ
100-51-6	Benzyl alcohol	2	0.0907	U
85-68-7	Benzyl butyl phthalate	2	0.0907	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0907	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0907	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0907	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0907	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0907	U
218-01-9	Chrysene	2	0.0907	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0907	U
132-64-9	Dibenzofuran	2	0.0907	U
84-66-2	Diethyl phthalate	2	0.0907	U
131-11-3	Dimethyl phthalate	2	0.0907	U
84-74-2	Di-n-butyl phthalate	2	0.0907	U
117-84-0	Di-n-octyl phthalate	2	0.0907	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0907	U
86-73-7	Fluorene	2	0.0907	U
118-74-1	Hexachlorobenzene	2	0.0907	U
87-68-3	Hexachlorobutadiene	2	0.0907	U
77-47-4	Hexachlorocyclopentadiene	2	0.0907	UJ
67-72-1	Hexachloroethane	2	0.0907	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0907	U
78-59-1	Isophorone	2	0.0907	U
91-20-3	Naphthalene	2	0.0907	U
98-95-3	Nitrobenzene	2	0.0907	U
62-75-9	N-Nitrosodimethylamine	2	0.0907	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0907	U
86-30-6	N-Nitrosodiphenylamine	2	0.0907	U
87-86-5	Pentachlorophenol	2	0.0907	U
85-01-8	Phenanthrene	2	0.0907	U
108-95-2	Phenol	2	0.0907	U
129-00-0	Pyrene	2	0.0907	U
110-86-1	Pyridine	2	0.363	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.31	72.4	20 - 108	
SURR: Phenol-d6	1.81	1.21	66.6	23 - 114	
SURR: Nitrobenzene-d5	0.906	0.658	72.6	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-01	File ID:	E70354565.D
Sampled:	05/14/24 12:00	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 14:23
Solids:	91.33	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.906	0.611	67.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	1.54	84.9	19 - 110	
SURR: Terphenyl-d14	0.906	0.682	75.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	457472	4.594	535803	4.6	
ISTD: Naphthalene-d8	1990536	5.613	2345255	5.618	
ISTD: Acenaphthene-d10	1243765	7.201	1454067	7.207	
ISTD: Phenanthrene-d10	1953457	9.261	2277092	9.272	
ISTD: Chrysene-d12	1176608	13.822	1544621	13.839	
ISTD: Perylene-d12	1305792	16.783	1584022	16.8	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	E70354566.D
Sampled:	05/14/24 12:07	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 14:54
Solids:	88.95	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0925	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.185	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0925	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.185	U
95-95-4	2,4,5-Trichlorophenol	2	0.0925	U
88-06-2	2,4,6-Trichlorophenol	2	0.0925	U
120-83-2	2,4-Dichlorophenol	2	0.0925	U
105-67-9	2,4-Dimethylphenol	2	0.0925	U J
51-28-5	2,4-Dinitrophenol	2	0.185	U J
121-14-2	2,4-Dinitrotoluene	2	0.0925	U
606-20-2	2,6-Dinitrotoluene	2	0.0925	U
91-58-7	2-Chloronaphthalene	2	0.0925	U
95-57-8	2-Chlorophenol	2	0.0925	U
91-57-6	2-Methylnaphthalene	2	0.0925	U
95-48-7	2-Methylphenol	2	0.0925	U
88-74-4	2-Nitroaniline	2	0.185	U
88-75-5	2-Nitrophenol	2	0.0925	U
65794-96-9	3- & 4-Methylphenols	2	0.0925	U
91-94-1	3,3-Dichlorobenzidine	2	0.0925	U
99-09-2	3-Nitroaniline	2	0.185	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.185	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0925	U
59-50-7	4-Chloro-3-methylphenol	2	0.0925	U
106-47-8	4-Chloroaniline	2	0.0925	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0925	U
100-01-6	4-Nitroaniline	2	0.185	U
100-02-7	4-Nitrophenol	2	0.185	U
83-32-9	Acenaphthene	2	0.0925	U
208-96-8	Acenaphthylene	2	0.0925	U
98-86-2	Acetophenone	2	0.0925	U
62-53-3	Aniline	2	0.371	U
120-12-7	Anthracene	2	0.0925	U
1912-24-9	Atrazine	2	0.0925	U
100-52-7	Benzaldehyde	2	0.0925	U
92-87-5	Benzidine	2	0.371	U J
56-55-3	Benzo(a)anthracene	2	0.0925	U
50-32-8	Benzo(a)pyrene	2	0.0925	U
205-99-2	Benzo(b)fluoranthene	2	0.0925	U
191-24-2	Benzo(g,h,i)perylene	2	0.0925	U
207-08-9	Benzo(k)fluoranthene	2	0.0925	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	E70354566.D
Sampled:	05/14/24 12:07	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 14:54
Solids:	88.95	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0925	U J
100-51-6	Benzyl alcohol	2	0.0925	U
85-68-7	Benzyl butyl phthalate	2	0.0925	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0925	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0925	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0925	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0925	U
105-60-2	Caprolactam	2	0.185	U
86-74-8	Carbazole	2	0.0925	U
218-01-9	Chrysene	2	0.0925	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0925	U
132-64-9	Dibenzofuran	2	0.0925	U
84-66-2	Diethyl phthalate	2	0.0925	U
131-11-3	Dimethyl phthalate	2	0.0925	U
84-74-2	Di-n-butyl phthalate	2	0.0925	U
117-84-0	Di-n-octyl phthalate	2	0.0925	U
122-39-4	Diphenylamine	2	0.185	U
206-44-0	Fluoranthene	2	0.0925	U
86-73-7	Fluorene	2	0.0925	U
118-74-1	Hexachlorobenzene	2	0.0925	U
87-68-3	Hexachlorobutadiene	2	0.0925	U
77-47-4	Hexachlorocyclopentadiene	2	0.0925	U J
67-72-1	Hexachloroethane	2	0.0925	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0925	U
78-59-1	Isophorone	2	0.0925	U
91-20-3	Naphthalene	2	0.0925	U
98-95-3	Nitrobenzene	2	0.0925	U
62-75-9	N-Nitrosodimethylamine	2	0.0925	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0925	U
86-30-6	N-Nitrosodiphenylamine	2	0.0925	U
87-86-5	Pentachlorophenol	2	0.0925	U
85-01-8	Phenanthrene	2	0.0925	U
108-95-2	Phenol	2	0.0925	U
129-00-0	Pyrene	2	0.0925	U
110-86-1	Pyridine	2	0.371	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.85	1.21	65.4	20 - 108	
SURR: Phenol-d6	1.85	1.11	60.2	23 - 114	
SURR: Nitrobenzene-d5	0.924	0.590	63.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	E70354566.D
Sampled:	05/14/24 12:07	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 14:54
Solids:	88.95	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.924	0.581	62.9	21 - 113	
SURR: 2,4,6-Tribromophenol	1.85	1.39	75.0	19 - 110	
SURR: Terphenyl-d14	0.924	0.655	70.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	514072	4.594	535803	4.6	
ISTD: Naphthalene-d8	2230817	5.613	2345255	5.618	
ISTD: Acenaphthene-d10	1365036	7.201	1454067	7.207	
ISTD: Phenanthrene-d10	2151468	9.266	2277092	9.272	
ISTD: Chrysene-d12	1323905	13.828	1544621	13.839	
ISTD: Perylene-d12	1503195	16.795	1584022	16.8	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID: E70354567.D

Sampled: 05/14/24 12:15 Prepared: 05/15/24 08:24 Analyzed: 05/16/24 15:25

Solids: 92.55 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BE40999 Sequence: S4E1628 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0889	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0889	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0889	U
88-06-2	2,4,6-Trichlorophenol	2	0.0889	U
120-83-2	2,4-Dichlorophenol	2	0.0889	U
105-67-9	2,4-Dimethylphenol	2	0.0889	U J
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0889	U
606-20-2	2,6-Dinitrotoluene	2	0.0889	U
91-58-7	2-Chloronaphthalene	2	0.0889	U
95-57-8	2-Chlorophenol	2	0.0889	U
91-57-6	2-Methylnaphthalene	2	0.0889	U
95-48-7	2-Methylphenol	2	0.0889	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0889	U
65794-96-9	3- & 4-Methylphenols	2	0.0889	U
91-94-1	3,3-Dichlorobenzidine	2	0.0889	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0889	U
59-50-7	4-Chloro-3-methylphenol	2	0.0889	U
106-47-8	4-Chloroaniline	2	0.0889	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0889	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U
83-32-9	Acenaphthene	2	0.0889	U
208-96-8	Acenaphthylene	2	0.0889	U
98-86-2	Acetophenone	2	0.0889	U
62-53-3	Aniline	2	0.356	U
120-12-7	Anthracene	2	0.0889	U
1912-24-9	Atrazine	2	0.0889	U
100-52-7	Benzaldehyde	2	0.0889	U
92-87-5	Benzidine	2	0.356	U J
56-55-3	Benzo(a)anthracene	2	0.0889	U
50-32-8	Benzo(a)pyrene	2	0.0889	U
205-99-2	Benzo(b)fluoranthene	2	0.0889	U
191-24-2	Benzo(g,h,i)perylene	2	0.0889	U
207-08-9	Benzo(k)fluoranthene	2	0.0889	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-03	File ID:	E70354567.D
Sampled:	05/14/24 12:15	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 15:25
Solids:	92.55	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0889	U J
100-51-6	Benzyl alcohol	2	0.0889	U
85-68-7	Benzyl butyl phthalate	2	0.0889	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0889	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0889	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0889	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0889	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0889	U
218-01-9	Chrysene	2	0.0889	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0889	U
132-64-9	Dibenzofuran	2	0.0889	U
84-66-2	Diethyl phthalate	2	0.0889	U
131-11-3	Dimethyl phthalate	2	0.0889	U
84-74-2	Di-n-butyl phthalate	2	0.0889	U
117-84-0	Di-n-octyl phthalate	2	0.0889	U
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0889	U
86-73-7	Fluorene	2	0.0889	U
118-74-1	Hexachlorobenzene	2	0.0889	U
87-68-3	Hexachlorobutadiene	2	0.0889	U
77-47-4	Hexachlorocyclopentadiene	2	0.0889	U J
67-72-1	Hexachloroethane	2	0.0889	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0889	U
78-59-1	Isophorone	2	0.0889	U
91-20-3	Naphthalene	2	0.0889	U
98-95-3	Nitrobenzene	2	0.0889	U
62-75-9	N-Nitrosodimethylamine	2	0.0889	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0889	U
86-30-6	N-Nitrosodiphenylamine	2	0.0889	U
87-86-5	Pentachlorophenol	2	0.0889	U
85-01-8	Phenanthrene	2	0.0889	U
108-95-2	Phenol	2	0.0889	U
129-00-0	Pyrene	2	0.0889	U
110-86-1	Pyridine	2	0.356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.23	69.1	20 - 108	
SURR: Phenol-d6	1.78	1.11	62.7	23 - 114	
SURR: Nitrobenzene-d5	0.889	0.616	69.3	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-03	File ID:	E70354567.D
Sampled:	05/14/24 12:15	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 15:25
Solids:	92.55	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.889	0.589	66.3	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.25	70.2	19 - 110	
SURR: Terphenyl-d14	0.889	0.605	68.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	559683	4.6	535803	4.6	
ISTD: Naphthalene-d8	2361342	5.618	2345255	5.618	
ISTD: Acenaphthene-d10	1473793	7.207	1454067	7.207	
ISTD: Phenanthrene-d10	2271549	9.266	2277092	9.272	
ISTD: Chrysene-d12	1452653	13.833	1544621	13.839	
ISTD: Perylene-d12	1613038	16.789	1584022	16.8	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	E70354568.D
Sampled:	05/14/24 12:20	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 15:55
Solids:	91.49	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0900	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0900	U
88-06-2	2,4,6-Trichlorophenol	2	0.0900	U
120-83-2	2,4-Dichlorophenol	2	0.0900	U
105-67-9	2,4-Dimethylphenol	2	0.0900	U J
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0900	U
606-20-2	2,6-Dinitrotoluene	2	0.0900	U
91-58-7	2-Chloronaphthalene	2	0.0900	U
95-57-8	2-Chlorophenol	2	0.0900	U
91-57-6	2-Methylnaphthalene	2	0.0900	U
95-48-7	2-Methylphenol	2	0.0900	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0900	U
65794-96-9	3- & 4-Methylphenols	2	0.0900	U
91-94-1	3,3-Dichlorobenzidine	2	0.0900	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0900	U
59-50-7	4-Chloro-3-methylphenol	2	0.0900	U
106-47-8	4-Chloroaniline	2	0.0900	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0900	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0900	U
208-96-8	Acenaphthylene	2	0.0900	U
98-86-2	Acetophenone	2	0.0900	U
62-53-3	Aniline	2	0.360	U
120-12-7	Anthracene	2	0.0900	U
1912-24-9	Atrazine	2	0.0900	U
100-52-7	Benzaldehyde	2	0.0900	U
92-87-5	Benzidine	2	0.360	U J
56-55-3	Benzo(a)anthracene	2	0.0900	U
50-32-8	Benzo(a)pyrene	2	0.0900	U
205-99-2	Benzo(b)fluoranthene	2	0.0900	U
191-24-2	Benzo(g,h,i)perylene	2	0.0900	U
207-08-9	Benzo(k)fluoranthene	2	0.0900	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	E70354568.D
Sampled:	05/14/24 12:20	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 15:55
Solids:	91.49	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0900	U J
100-51-6	Benzyl alcohol	2	0.0900	U
85-68-7	Benzyl butyl phthalate	2	0.0900	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0900	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0900	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0900	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0900	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0900	U
218-01-9	Chrysene	2	0.0900	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0900	U
132-64-9	Dibenzofuran	2	0.0900	U
84-66-2	Diethyl phthalate	2	0.0900	U
131-11-3	Dimethyl phthalate	2	0.0900	U
84-74-2	Di-n-butyl phthalate	2	0.0900	U
117-84-0	Di-n-octyl phthalate	2	0.0900	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0900	U
86-73-7	Fluorene	2	0.0900	U
118-74-1	Hexachlorobenzene	2	0.0900	U
87-68-3	Hexachlorobutadiene	2	0.0900	U
77-47-4	Hexachlorocyclopentadiene	2	0.0900	U J
67-72-1	Hexachloroethane	2	0.0900	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0900	U
78-59-1	Isophorone	2	0.0900	U
91-20-3	Naphthalene	2	0.0900	U
98-95-3	Nitrobenzene	2	0.0900	U
62-75-9	N-Nitrosodimethylamine	2	0.0900	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0900	U
86-30-6	N-Nitrosodiphenylamine	2	0.0900	U
87-86-5	Pentachlorophenol	2	0.0900	U
85-01-8	Phenanthrene	2	0.0900	U
108-95-2	Phenol	2	0.0900	U
129-00-0	Pyrene	2	0.0900	U
110-86-1	Pyridine	2	0.360	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.00	55.7	20 - 108	
SURR: Phenol-d6	1.80	0.918	51.0	23 - 114	
SURR: Nitrobenzene-d5	0.899	0.486	54.1	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	E70354568.D
Sampled:	05/14/24 12:20	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 15:55
Solids:	91.49	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.899	0.481	53.5	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.00	55.6	19 - 110	
SURR: Terphenyl-d14	0.899	0.520	57.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	570702	4.594	535803	4.6	
ISTD: Naphthalene-d8	2411511	5.613	2345255	5.618	
ISTD: Acenaphthene-d10	1494440	7.201	1454067	7.207	
ISTD: Phenanthrene-d10	2413884	9.26	2277092	9.272	
ISTD: Chrysene-d12	1539937	13.822	1544621	13.839	
ISTD: Perylene-d12	1714505	16.783	1584022	16.8	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-19

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-05	File ID:	E70354569.D
Sampled:	05/14/24 12:26	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 16:26
Solids:	93.46	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0881	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.176	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0881	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.176	U
95-95-4	2,4,5-Trichlorophenol	2	0.0881	U
88-06-2	2,4,6-Trichlorophenol	2	0.0881	U
120-83-2	2,4-Dichlorophenol	2	0.0881	U
105-67-9	2,4-Dimethylphenol	2	0.0881	U J
51-28-5	2,4-Dinitrophenol	2	0.176	U J
121-14-2	2,4-Dinitrotoluene	2	0.0881	U
606-20-2	2,6-Dinitrotoluene	2	0.0881	U
91-58-7	2-Chloronaphthalene	2	0.0881	U
95-57-8	2-Chlorophenol	2	0.0881	U
91-57-6	2-Methylnaphthalene	2	0.0881	U
95-48-7	2-Methylphenol	2	0.0881	U
88-74-4	2-Nitroaniline	2	0.176	U
88-75-5	2-Nitrophenol	2	0.0881	U
65794-96-9	3- & 4-Methylphenols	2	0.0881	U
91-94-1	3,3-Dichlorobenzidine	2	0.0881	U
99-09-2	3-Nitroaniline	2	0.176	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.176	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0881	U
59-50-7	4-Chloro-3-methylphenol	2	0.0881	U
106-47-8	4-Chloroaniline	2	0.0881	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0881	U
100-01-6	4-Nitroaniline	2	0.176	U
100-02-7	4-Nitrophenol	2	0.176	U
83-32-9	Acenaphthene	2	0.0881	U
208-96-8	Acenaphthylene	2	0.0881	U
98-86-2	Acetophenone	2	0.0881	U
62-53-3	Aniline	2	0.353	U
120-12-7	Anthracene	2	0.0881	U
1912-24-9	Atrazine	2	0.0881	U
100-52-7	Benzaldehyde	2	0.0881	U
92-87-5	Benzidine	2	0.353	U J
56-55-3	Benzo(a)anthracene	2	0.0881	U
50-32-8	Benzo(a)pyrene	2	0.0881	U
205-99-2	Benzo(b)fluoranthene	2	0.0881	U
191-24-2	Benzo(g,h,i)perylene	2	0.0881	U
207-08-9	Benzo(k)fluoranthene	2	0.0881	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-19

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-05 File ID: E70354569.D

Sampled: 05/14/24 12:26 Prepared: 05/15/24 08:24 Analyzed: 05/16/24 16:26

Solids: 93.46 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BE40999 Sequence: S4E1628 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0881	U J
100-51-6	Benzyl alcohol	2	0.0881	U
85-68-7	Benzyl butyl phthalate	2	0.0881	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0881	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0881	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0881	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0881	U
105-60-2	Caprolactam	2	0.176	U
86-74-8	Carbazole	2	0.0881	U
218-01-9	Chrysene	2	0.0881	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0881	U
132-64-9	Dibenzofuran	2	0.0881	U
84-66-2	Diethyl phthalate	2	0.0881	U
131-11-3	Dimethyl phthalate	2	0.0881	U
84-74-2	Di-n-butyl phthalate	2	0.0881	U
117-84-0	Di-n-octyl phthalate	2	0.0881	U
122-39-4	Diphenylamine	2	0.176	U
206-44-0	Fluoranthene	2	0.0881	U
86-73-7	Fluorene	2	0.0881	U
118-74-1	Hexachlorobenzene	2	0.0881	U
87-68-3	Hexachlorobutadiene	2	0.0881	U
77-47-4	Hexachlorocyclopentadiene	2	0.0881	U J
67-72-1	Hexachloroethane	2	0.0881	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0881	U
78-59-1	Isophorone	2	0.0881	U
91-20-3	Naphthalene	2	0.0881	U
98-95-3	Nitrobenzene	2	0.0881	U
62-75-9	N-Nitrosodimethylamine	2	0.0881	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0881	U
86-30-6	N-Nitrosodiphenylamine	2	0.0881	U
87-86-5	Pentachlorophenol	2	0.0881	U
85-01-8	Phenanthrene	2	0.0881	U
108-95-2	Phenol	2	0.0881	U
129-00-0	Pyrene	2	0.0881	U
110-86-1	Pyridine	2	0.353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.76	1.14	64.7	20 - 108	
SURR: Phenol-d6	1.76	1.02	58.2	23 - 114	
SURR: Nitrobenzene-d5	0.880	0.566	64.3	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-19

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-05	File ID:	E70354569.D
Sampled:	05/14/24 12:26	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 16:26
Solids:	93.46	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.880	0.582	66.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.76	1.57	89.2	19 - 110	
SURR: Terphenyl-d14	0.880	0.611	69.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	545497	4.594	535803	4.6	
ISTD: Naphthalene-d8	2243992	5.612	2345255	5.618	
ISTD: Acenaphthene-d10	1355687	7.201	1454067	7.207	
ISTD: Phenanthrene-d10	2219228	9.26	2277092	9.272	
ISTD: Chrysene-d12	1468730	13.822	1544621	13.839	
ISTD: Perylene-d12	1629814	16.783	1584022	16.8	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	E70354570.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 16:57
Solids:	91.40	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0900	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0900	U
88-06-2	2,4,6-Trichlorophenol	2	0.0900	U
120-83-2	2,4-Dichlorophenol	2	0.0900	U
105-67-9	2,4-Dimethylphenol	2	0.0900	U J
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0900	U
606-20-2	2,6-Dinitrotoluene	2	0.0900	U
91-58-7	2-Chloronaphthalene	2	0.0900	U
95-57-8	2-Chlorophenol	2	0.0900	U
95-48-7	2-Methylphenol	2	0.0900	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0900	U
65794-96-9	3- & 4-Methylphenols	2	0.0900	U
91-94-1	3,3-Dichlorobenzidine	2	0.0900	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0900	U
59-50-7	4-Chloro-3-methylphenol	2	0.0900	U
106-47-8	4-Chloroaniline	2	0.0900	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0900	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	1.40	D
208-96-8	Acenaphthylene	2	0.0900	U
98-86-2	Acetophenone	2	0.0900	U
62-53-3	Aniline	2	0.361	U
120-12-7	Anthracene	2	0.459	D
1912-24-9	Atrazine	2	0.0900	U
100-52-7	Benzaldehyde	2	0.0900	U
92-87-5	Benzidine	2	0.361	U J
56-55-3	Benzo(a)anthracene	2	0.0900	U
50-32-8	Benzo(a)pyrene	2	0.0900	U
205-99-2	Benzo(b)fluoranthene	2	0.0900	U
191-24-2	Benzo(g,h,i)perylene	2	0.0900	U
207-08-9	Benzo(k)fluoranthene	2	0.0900	U
65-85-0	Benzoic acid	2	0.0900	U J
100-51-6	Benzyl alcohol	2	0.0900	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-40

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-06 File ID: E70354570.D

Sampled: 05/14/24 12:32 Prepared: 05/15/24 08:24 Analyzed: 05/16/24 16:57

Solids: 91.40 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BE40999 Sequence: S4E1628 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
85-68-7	Benzyl butyl phthalate	2	0.0900	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0900	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0900	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0900	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0900	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0900	U
218-01-9	Chrysene	2	0.0900	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0900	U
132-64-9	Dibenzofuran	2	1.50	D
84-66-2	Diethyl phthalate	2	0.0900	U
131-11-3	Dimethyl phthalate	2	0.0900	U
84-74-2	Di-n-butyl phthalate	2	0.0900	U
117-84-0	Di-n-octyl phthalate	2	0.0900	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.181	D
118-74-1	Hexachlorobenzene	2	0.0900	U
87-68-3	Hexachlorobutadiene	2	0.0900	U
77-47-4	Hexachlorocyclopentadiene	2	0.0900	U J
67-72-1	Hexachloroethane	2	0.0900	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0900	U
78-59-1	Isophorone	2	0.0900	U
98-95-3	Nitrobenzene	2	0.0900	U
62-75-9	N-Nitrosodimethylamine	2	0.0900	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0900	U
86-30-6	N-Nitrosodiphenylamine	2	0.0900	U
87-86-5	Pentachlorophenol	2	0.0900	U
108-95-2	Phenol	2	0.0900	U
129-00-0	Pyrene	2	0.900	D
110-86-1	Pyridine	2	0.361	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.35	74.9	20 - 108	
SURR: Phenol-d6	1.80	1.26	70.0	23 - 114	
SURR: Nitrobenzene-d5	0.900	0.250	27.8	22 - 108	
SURR: 2-Fluorobiphenyl	0.900	0.742	82.5	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	2.43	135	19 - 110	*
SURR: Terphenyl-d14	0.900	0.790	87.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	536250	4.594	535803	4.6	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	E70354570.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 08:24	Analyzed:	05/16/24 16:57
Solids:	91.40	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1628	Calibration:	SE40018
Instrument:	BNA #7				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Naphthalene-d8	1863543	5.624	2345255	5.618	
ISTD: Acenaphthene-d10	1598314	7.236	1454067	7.207	
ISTD: Phenanthrene-d10	2178033	9.307	2277092	9.272	
ISTD: Chrysene-d12	1433275	13.833	1544621	13.839	
ISTD: Perylene-d12	1617877	16.783	1584022	16.8	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06RE1	File ID:	SV4416373.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 08:24	Analyzed:	05/17/24 09:29
Solids:	91.40	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1901	Calibration:	SE40024
Instrument:	BNA #4				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	5	4.15	D
86-73-7	Fluorene	5	3.52	D
85-01-8	Phenanthrene	5	6.71	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.39	77.0	20 - 108	
SURR: Phenol-d6	1.80	1.37	76.3	23 - 114	
SURR: Nitrobenzene-d5	0.900	2.46	273	22 - 108	*
SURR: 2-Fluorobiphenyl	0.900	0.675	75.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.57	87.1	19 - 110	
SURR: Terphenyl-d14	0.900	0.849	94.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	124017	5.391	113154	5.385	
ISTD: Naphthalene-d8	475826	6.491	570881	6.485	
ISTD: Acenaphthene-d10	322229	8.353	277499	8.341	
ISTD: Phenanthrene-d10	422891	10.22	477590	10.214	
ISTD: Chrysene-d12	384407	15.049	444139	15.055	
ISTD: Perylene-d12	442867	18.103	501257	18.103	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06RE2	File ID:	SV4416374.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 08:24	Analyzed:	05/17/24 09:58
Solids:	91.40	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE40999	Sequence:	S4E1901	Calibration:	SE40024
Instrument:	BNA #4				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	50	40.1	D
91-20-3	Naphthalene	50	17.2	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.06	59.0	20 - 108	D
SURR: Phenol-d6	1.80	1.06	59.0	23 - 114	D
SURR: Nitrobenzene-d5	0.900	1.26	140	22 - 108	D
SURR: 2-Fluorobiphenyl	0.900	0.810	90.0	21 - 113	D
SURR: 2,4,6-Tribromophenol	1.80	0.864	48.0	19 - 110	D
SURR: Terphenyl-d14	0.900	0.684	76.0	24 - 116	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	122266	5.385	113154	5.385	
ISTD: Naphthalene-d8	508646	6.485	570881	6.485	
ISTD: Acenaphthene-d10	261488	8.341	277499	8.341	
ISTD: Phenanthrene-d10	446819	10.208	477590	10.214	
ISTD: Chrysene-d12	415245	15.049	444139	15.055	
ISTD: Perylene-d12	477534	18.098	501257	18.103	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	BNA1027581.D
Sampled:	05/14/24 13:45	Prepared:	05/15/24 08:09	Analyzed:	05/16/24 10:13
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BE40994	Sequence:	S4E1643	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
92-52-4	1,1-Biphenyl	1	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U
95-95-4	2,4,5-Trichlorophenol	1	5.00	U
88-06-2	2,4,6-Trichlorophenol	1	5.00	U
120-83-2	2,4-Dichlorophenol	1	5.00	U
105-67-9	2,4-Dimethylphenol	1	5.00	U
51-28-5	2,4-Dinitrophenol	1	5.00	U
121-14-2	2,4-Dinitrotoluene	1	5.00	U
606-20-2	2,6-Dinitrotoluene	1	5.00	U
91-58-7	2-Chloronaphthalene	1	5.00	U
95-57-8	2-Chlorophenol	1	5.00	U
91-57-6	2-Methylnaphthalene	1	5.00	U
95-48-7	2-Methylphenol	1	5.00	U
88-74-4	2-Nitroaniline	1	5.00	U
88-75-5	2-Nitrophenol	1	5.00	U
65794-96-9	3- & 4-Methylphenols	1	5.00	U
91-94-1	3,3-Dichlorobenzidine	1	5.00	U
99-09-2	3-Nitroaniline	1	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U
59-50-7	4-Chloro-3-methylphenol	1	5.00	U
106-47-8	4-Chloroaniline	1	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U
100-01-6	4-Nitroaniline	1	5.00	U
100-02-7	4-Nitrophenol	1	5.00	U
98-86-2	Acetophenone	1	5.00	U
62-53-3	Aniline	1	5.00	U
100-52-7	Benzaldehyde	1	5.00	U
92-87-5	Benzidine	1	5.00	U
65-85-0	Benzoic acid	1	5.00	U
100-51-6	Benzyl alcohol	1	5.00	U
85-68-7	Benzyl butyl phthalate	1	5.00	U
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	BNA1027581.D
Sampled:	05/14/24 13:45	Prepared:	05/15/24 08:09	Analyzed:	05/16/24 10:13
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BE40994	Sequence:	S4E1643	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
122-39-4	Diphenylamine	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
110-86-1	Pyridine	1	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	17.6	35.1	19.7 - 63.1	
SURR: Phenol-d6	50.0	9.78	19.6	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	16.8	67.3	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	17.2	69.0	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	49.1	98.2	39.3 - 151	
SURR: Terphenyl-d14	25.0	20.5	81.9	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	237328	5.298	257977	5.298	
ISTD: Naphthalene-d8	1073437	6.367	1166722	6.367	
ISTD: Acenaphthene-d10	706192	8.215	726644	8.216	
ISTD: Phenanthrene-d10	1136402	10.168	1227621	10.174	
ISTD: Chrysene-d12	1108485	15.038	1227413	15.044	
ISTD: Perylene-d12	1135925	18.066	1165794	18.072	

* Values outside of QC limits

Semivolatiles
Method 8270 SIM

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	SV62491.D
Sampled:	05/14/24 13:45	Prepared:	05/15/24 08:09	Analyzed:	05/17/24 12:21
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BE40994	Sequence:	S4E1709	Calibration:	SE30037
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0500	U
208-96-8	Acenaphthylene	1	0.0500	U
120-12-7	Anthracene	1	0.0500	U
1912-24-9	Atrazine	1	0.500	U
56-55-3	Benzo(a)anthracene	1	0.0500	U
50-32-8	Benzo(a)pyrene	1	0.0500	U
205-99-2	Benzo(b)fluoranthene	1	0.0500	U
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U
207-08-9	Benzo(k)fluoranthene	1	0.0500	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	1.95	
218-01-9	Chrysene	1	0.0500	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U
206-44-0	Fluoranthene	1	0.0500	U
86-73-7	Fluorene	1	0.0500	U
118-74-1	Hexachlorobenzene	1	0.0200	U
87-68-3	Hexachlorobutadiene	1	0.500	U
67-72-1	Hexachloroethane	1	0.500	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U
91-20-3	Naphthalene	1	0.0500	U
98-95-3	Nitrobenzene	1	0.250	U
62-75-9	N-Nitrosodimethylamine	1	0.500	U
87-86-5	Pentachlorophenol	1	0.250	U
85-01-8	Phenanthrene	1	0.0500	U
129-00-0	Pyrene	1	0.0500	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	3243407	8.22	3093486	8.22	
ISTD: Naphthalene-d8	6358016	9.83	6118087	9.83	
ISTD: Acenaphthene-d10	3521514	12.26	3505740	12.26	
ISTD: Phenanthrene-d10	5449950	14.36	5689836	14.36	
ISTD: Chrysene-d12	4708382	18.17	4934185	18.18	
ISTD: Perylene-d12	5073128	20.13	4904675	20.13	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-01 File ID: P7026960.D

Sampled: 05/14/24 12:00 Prepared: 05/15/24 08:46 Analyzed: 05/16/24 22:37

Solids: 91.33 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U J
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0443	61.3	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0422	58.4	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-30

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-02 File ID: P7026967.D

Sampled: 05/14/24 12:07 Prepared: 05/15/24 08:46 Analyzed: 05/17/24 00:37

Solids: 88.95 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00184	U
72-55-9	4,4'-DDE	5	0.00184	U
50-29-3	4,4'-DDT	5	0.00184	U
309-00-2	Aldrin	5	0.00184	U
319-84-6	alpha-BHC	5	0.00184	U
5103-71-9	alpha-Chlordane	5	0.00184	U
319-85-7	beta-BHC	5	0.00184	U
319-86-8	delta-BHC	5	0.00184	U
60-57-1	Dieldrin	5	0.00184	U
959-98-8	Endosulfan I	5	0.00184	U
33213-65-9	Endosulfan II	5	0.00184	U
1031-07-8	Endosulfan sulfate	5	0.00184	U
72-20-8	Endrin	5	0.00184	U
7421-93-4	Endrin aldehyde	5	0.00184	U
53494-70-5	Endrin ketone	5	0.00184	U
58-89-9	gamma-BHC (Lindane)	5	0.00184	U
5566-34-7	gamma-Chlordane	5	0.00184	U J
76-44-8	Heptachlor	5	0.00184	U
1024-57-3	Heptachlor epoxide	5	0.00184	U
72-43-5	Methoxychlor	5	0.00184	U
8001-35-2	Toxaphene	5	0.184	U
57-74-9	Chlordane, total	5	0.0367	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0742	0.0612	82.5	30 - 150	
Tetrachloro-m-xylene	0.0742	0.0561	75.6	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID: P7026968.D

Sampled: 05/14/24 12:15 Prepared: 05/15/24 08:46 Analyzed: 05/17/24 00:54

Solids: 92.55 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	UJ
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0351	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0708	0.0577	81.4	30 - 150	
Tetrachloro-m-xylene	0.0708	0.0550	77.7	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-31

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-04 File ID: P7026969.D

Sampled: 05/14/24 12:20 Prepared: 05/15/24 08:46 Analyzed: 05/17/24 01:11

Solids: 91.49 Preparation: EPA 3550C Initial/Final: 30.9 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	U J
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0350	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0707	0.0573	80.9	30 - 150	
Tetrachloro-m-xylene	0.0707	0.0548	77.4	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-19

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-05 File ID: P7026970.D

Sampled: 05/14/24 12:26 Prepared: 05/15/24 08:46 Analyzed: 05/17/24 01:28

Solids: 93.46 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00174	U
72-55-9	4,4'-DDE	5	0.00174	U
50-29-3	4,4'-DDT	5	0.00174	U
309-00-2	Aldrin	5	0.00174	U
319-84-6	alpha-BHC	5	0.00174	U
5103-71-9	alpha-Chlordane	5	0.00174	U
319-85-7	beta-BHC	5	0.00174	U
319-86-8	delta-BHC	5	0.00174	U
60-57-1	Dieldrin	5	0.00174	U
959-98-8	Endosulfan I	5	0.00174	U
33213-65-9	Endosulfan II	5	0.00174	U
1031-07-8	Endosulfan sulfate	5	0.00174	U
72-20-8	Endrin	5	0.00174	U
7421-93-4	Endrin aldehyde	5	0.00174	U
53494-70-5	Endrin ketone	5	0.00174	U
58-89-9	gamma-BHC (Lindane)	5	0.00174	U
5566-34-7	gamma-Chlordane	5	0.00174	U J
76-44-8	Heptachlor	5	0.00174	U
1024-57-3	Heptachlor epoxide	5	0.00174	U
72-43-5	Methoxychlor	5	0.00174	U
8001-35-2	Toxaphene	5	0.174	U
57-74-9	Chlordane, total	5	0.0347	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0702	0.0507	72.2	30 - 150	
Tetrachloro-m-xylene	0.0702	0.0467	66.6	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-40

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-06 File ID: P7026971.D

Sampled: 05/14/24 12:32 Prepared: 05/15/24 08:46 Analyzed: 05/17/24 01:45

Solids: 91.40 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41010 Sequence: S4E1656 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	UJ
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0357	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0722	0.0533	73.8	30 - 150	
Tetrachloro-m-xylene	0.0722	0.0408	56.5	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	P8-4000184.D
Sampled:	05/14/24 13:45	Prepared:	05/16/24 09:42	Analyzed:	05/20/24 20:55
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BE41109	Sequence:	S4E2137	Calibration:	SE40027
Instrument:	Pest#8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	1	0.00400	U
72-55-9	4,4'-DDE	1	0.00400	U
50-29-3	4,4'-DDT	1	0.00400	U
309-00-2	Aldrin	1	0.00400	U
319-84-6	alpha-BHC	1	0.00400	U
5103-71-9	alpha-Chlordane	1	0.00400	U
319-85-7	beta-BHC	1	0.00400	U
319-86-8	delta-BHC	1	0.00400	U
60-57-1	Dieldrin	1	0.00200	U
959-98-8	Endosulfan I	1	0.00400	U
33213-65-9	Endosulfan II	1	0.00400	U
1031-07-8	Endosulfan sulfate	1	0.00400	U
72-20-8	Endrin	1	0.00400	U
7421-93-4	Endrin aldehyde	1	0.0100	U
53494-70-5	Endrin ketone	1	0.0100	U
58-89-9	gamma-BHC (Lindane)	1	0.00400	U
5566-34-7	gamma-Chlordane	1	0.0100	U
76-44-8	Heptachlor	1	0.00400	U
1024-57-3	Heptachlor epoxide	1	0.00400	U
72-43-5	Methoxychlor	1	0.00400	U
8001-35-2	Toxaphene	1	0.100	U
57-74-9	Chlordane, total	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0637	31.8	30 - 150	
Tetrachloro-m-xylene	0.200	0.101	50.3	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-01	File ID:	P1146088.D
Sampled:	05/14/24 12:00	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 00:52
Solids:	91.33	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U J
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0441	61.0	30 - 120	
Decachlorobiphenyl	0.0723	0.0502	69.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	P1146089.D
Sampled:	05/14/24 12:07	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 01:06
Solids:	88.95	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0185	U
11104-28-2	Aroclor 1221	1	0.0185	U
11141-16-5	Aroclor 1232	1	0.0185	U
53469-21-9	Aroclor 1242	1	0.0185	U
12672-29-6	Aroclor 1248	1	0.0185	U
11097-69-1	Aroclor 1254	1	0.0185	U
11096-82-5	Aroclor 1260	1	0.0185	UJ
1336-36-3	Total PCBs	1	0.0185	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0742	0.0623	84.0	30 - 120	
Decachlorobiphenyl	0.0742	0.0698	94.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-03	File ID:	P1146090.D
Sampled:	05/14/24 12:15	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 01:19
Solids:	92.55	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	UJ
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0708	0.0599	84.5	30 - 120	
Decachlorobiphenyl	0.0708	0.0670	94.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	P1146091.D
Sampled:	05/14/24 12:20	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 01:33
Solids:	91.49	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U J
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0707	0.0577	81.5	30 - 120	
Decachlorobiphenyl	0.0707	0.0619	87.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-19

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-05	File ID:	P1146092.D
Sampled:	05/14/24 12:26	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 01:47
Solids:	93.46	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0175	U
11104-28-2	Aroclor 1221	1	0.0175	U
11141-16-5	Aroclor 1232	1	0.0175	U
53469-21-9	Aroclor 1242	1	0.0175	U
12672-29-6	Aroclor 1248	1	0.0175	U
11097-69-1	Aroclor 1254	1	0.0175	U
11096-82-5	Aroclor 1260	1	0.0175	U J
1336-36-3	Total PCBs	1	0.0175	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0702	0.0481	68.5	30 - 120	
Decachlorobiphenyl	0.0702	0.0586	83.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	P1146093.D
Sampled:	05/14/24 12:32	Prepared:	05/15/24 08:46	Analyzed:	05/18/24 02:00
Solids:	91.40	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41010	Sequence:	S4E1743	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U J
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0722	0.0412	57.0	30 - 120	
Decachlorobiphenyl	0.0722	0.0563	78.0	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	P20520423.d
Sampled:	05/14/24 13:45	Prepared:	05/16/24 09:42	Analyzed:	05/18/24 07:49
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BE41109	Sequence:	S4E1738	Calibration:	SB40014
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.168	84.0	30 - 120	
Decachlorobiphenyl	0.200	0.187	93.5	30 - 120	

* Values outside of QC limits

Metals
Method 6020

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

EB_05142024

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Water Laboratory ID: 24E0930-07 File ID: QBIMX051624A-097

Sampled: 05/14/24 13:45 Prepared: 05/16/24 08:20 Analyzed: 05/16/24 16:17

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BE41080 Sequence: S4E1702 Calibration: 05/16/24 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.00111	1	U	EPA 6020B
7440-38-2	Arsenic	0.00111	1	U	EPA 6020B
7440-41-7	Beryllium	0.000333	1	U	EPA 6020B
7440-43-9	Cadmium	0.000556	1	U	EPA 6020B
7782-49-2	Selenium	0.00111	1	U	EPA 6020B
7440-28-0	Thallium	0.00111	1	U	EPA 6020B

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-01 File ID: QBICP2-051724ARE_1-071

Sampled: 05/14/24 12:00 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:11

Solids: 91.33 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6380	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	1.70	1		EPA 6010D
7440-39-3	Barium	37.7	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.274	1	U	EPA 6010D
7440-70-2	Calcium	1130	1		EPA 6010D
7440-47-3	Chromium	12.2	1		EPA 6010D
7440-48-4	Cobalt	4.34	1		EPA 6010D
7440-50-8	Copper	11.1	1		EPA 6010D
7439-89-6	Iron	9080	1		EPA 6010D
7439-92-1	Lead	5.35	1		EPA 6010D
7439-95-4	Magnesium	1630	1		EPA 6010D
7439-96-5	Manganese	298	1		EPA 6010D
7440-02-0	Nickel	9.84	1		EPA 6010D
7440-09-7	Potassium	851	1	B J-	EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.460	1	U	EPA 6010D
7440-23-5	Sodium	83.5	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	16.8	1		EPA 6010D
7440-66-6	Zinc	19.1	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-30

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-02 File ID: QBICP2-051724ARE_1-072

Sampled: 05/14/24 12:07 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:13

Solids: 88.95 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6870	1		EPA 6010D
7440-36-0	Antimony	2.34	1	U	EPA 6010D
7440-38-2	Arsenic	2.01	1		EPA 6010D
7440-39-3	Barium	33.5	1		EPA 6010D
7440-41-7	Beryllium	0.047	1	U	EPA 6010D
7440-43-9	Cadmium	0.281	1	U	EPA 6010D
7440-70-2	Calcium	750	1		EPA 6010D
7440-47-3	Chromium	13.7	1		EPA 6010D
7440-48-4	Cobalt	4.16	1		EPA 6010D
7440-50-8	Copper	11.0	1		EPA 6010D
7439-89-6	Iron	10100	1		EPA 6010D
7439-92-1	Lead	5.15	1		EPA 6010D
7439-95-4	Magnesium	1580	1		EPA 6010D
7439-96-5	Manganese	230	1		EPA 6010D
7440-02-0	Nickel	10.1	1		EPA 6010D
7440-09-7	Potassium	725	1	~~B~~ J-	EPA 6010D
7782-49-2	Selenium	2.34	1	U	EPA 6010D
7440-22-4	Silver	0.472	1	U	EPA 6010D
7440-23-5	Sodium	70.4	1		EPA 6010D
7440-28-0	Thallium	2.34	1	U	EPA 6010D
7440-62-2	Vanadium	18.2	1		EPA 6010D
7440-66-6	Zinc	20.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID: QBICP2-051724ARE_1-073

Sampled: 05/14/24 12:15 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:16

Solids: 92.55 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6490	1		EPA 6010D
7440-36-0	Antimony	2.25	1	U	EPA 6010D
7440-38-2	Arsenic	2.64	1		EPA 6010D
7440-39-3	Barium	40.0	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	1550	1		EPA 6010D
7440-47-3	Chromium	14.0	1		EPA 6010D
7440-48-4	Cobalt	4.57	1		EPA 6010D
7440-50-8	Copper	15.3	1		EPA 6010D
7439-89-6	Iron	13800	1		EPA 6010D
7439-92-1	Lead	5.68	1		EPA 6010D
7439-95-4	Magnesium	2030	1		EPA 6010D
7439-96-5	Manganese	297	1		EPA 6010D
7440-02-0	Nickel	11.4	1		EPA 6010D
7440-09-7	Potassium	950	1	~~B~~ J-	EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.454	1	U	EPA 6010D
7440-23-5	Sodium	194	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	26.5	1		EPA 6010D
7440-66-6	Zinc	20.3	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-31

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-04 File ID: QBICP2-051724ARE_1-074

Sampled: 05/14/24 12:20 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:18

Solids: 91.49 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6460	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	2.43	1		EPA 6010D
7440-39-3	Barium	36.0	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.273	1	U	EPA 6010D
7440-70-2	Calcium	993	1		EPA 6010D
7440-47-3	Chromium	13.3	1		EPA 6010D
7440-48-4	Cobalt	5.03	1		EPA 6010D
7440-50-8	Copper	12.1	1		EPA 6010D
7439-89-6	Iron	10400	1		EPA 6010D
7439-92-1	Lead	4.95	1		EPA 6010D
7439-95-4	Magnesium	1930	1		EPA 6010D
7439-96-5	Manganese	392	1		EPA 6010D
7440-02-0	Nickel	10.9	1		EPA 6010D
7440-09-7	Potassium	1040	1	~~B~~ J-	EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.459	1	U	EPA 6010D
7440-23-5	Sodium	111	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	17.2	1		EPA 6010D
7440-66-6	Zinc	20.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-19

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-05 File ID: QBICP2-051724ARE_1-075

Sampled: 05/14/24 12:26 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:21

Solids: 93.46 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5740	1		EPA 6010D
7440-36-0	Antimony	2.23	1	U	EPA 6010D
7440-38-2	Arsenic	1.57	1		EPA 6010D
7440-39-3	Barium	35.2	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.267	1	U	EPA 6010D
7440-70-2	Calcium	1620	1		EPA 6010D
7440-47-3	Chromium	11.7	1		EPA 6010D
7440-48-4	Cobalt	4.58	1		EPA 6010D
7440-50-8	Copper	12.1	1		EPA 6010D
7439-89-6	Iron	9650	1		EPA 6010D
7439-92-1	Lead	5.73	1		EPA 6010D
7439-95-4	Magnesium	1900	1		EPA 6010D
7439-96-5	Manganese	280	1		EPA 6010D
7440-02-0	Nickel	9.83	1		EPA 6010D
7440-09-7	Potassium	841	1	~~B~~ J-	EPA 6010D
7782-49-2	Selenium	2.23	1	U	EPA 6010D
7440-22-4	Silver	0.449	1	U	EPA 6010D
7440-23-5	Sodium	117	1		EPA 6010D
7440-28-0	Thallium	2.23	1	U	EPA 6010D
7440-62-2	Vanadium	16.8	1		EPA 6010D
7440-66-6	Zinc	19.6	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-40

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-06 File ID: QBICP2-051724ARE_1-076

Sampled: 05/14/24 12:32 Prepared: 05/16/24 13:27 Analyzed: 05/17/24 14:23

Solids: 91.40 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41132 Sequence: S4E1730 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5490	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	1.93	1		EPA 6010D
7440-39-3	Barium	33.5	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.274	1	U	EPA 6010D
7440-70-2	Calcium	1260	1		EPA 6010D
7440-47-3	Chromium	12.4	1		EPA 6010D
7440-48-4	Cobalt	4.28	1		EPA 6010D
7440-50-8	Copper	12.6	1		EPA 6010D
7439-89-6	Iron	10100	1		EPA 6010D
7439-92-1	Lead	5.75	1		EPA 6010D
7439-95-4	Magnesium	1770	1		EPA 6010D
7439-96-5	Manganese	266	1		EPA 6010D
7440-02-0	Nickel	11.2	1		EPA 6010D
7440-09-7	Potassium	897	1	~~B~~ J-	EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.460	1	U	EPA 6010D
7440-23-5	Sodium	141	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	18.4	1		EPA 6010D
7440-66-6	Zinc	19.1	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EB_05142024

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Water Laboratory ID: 24E0930-07 File ID: QBICP2-051724ARE_1-022

Sampled: 05/14/24 13:45 Prepared: 05/16/24 08:15 Analyzed: 05/17/24 11:44

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BE41078 Sequence: S4E1724 Calibration: 05/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.0556	1	U	EPA 6010D
7440-39-3	Barium	0.0278	1	U	EPA 6010D
7440-70-2	Calcium	0.436	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7439-89-6	Iron	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	0.0556	1	U	EPA 6010D
7439-96-5	Manganese	0.00556	1	U	EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	0.0717	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D
7440-23-5	Sodium	0.938	1		EPA 6010D
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.0278	1	U	EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-01	File ID:	
Sampled:	05/14/24 12:00	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	91.33	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0328	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	
Sampled:	05/14/24 12:07	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	88.95	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0337	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-03	File ID:	
Sampled:	05/14/24 12:15	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	92.55	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0324	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-31

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-04	File ID:	
Sampled:	05/14/24 12:20	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	91.49	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0328	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-19

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-05	File ID:	
Sampled:	05/14/24 12:26	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	93.46	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0321	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	
Sampled:	05/14/24 12:32	Prepared:	05/16/24 09:23	Analyzed:	05/16/24 16:00
Solids:	91.40	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41100	Sequence:	S4E1650	Calibration:	05/16/24 1
Instrument:	DMA 80-02				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0328	1	U	EPA 7473

Mercury
Method 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

EB_05142024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Water	Laboratory ID:	24E0930-07	File ID:	QBHg05152024A-080
Sampled:	05/14/24 13:45	Prepared:	05/16/24 08:08	Analyzed:	05/16/24 08:08
Solids:	0.00	Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL
Batch:	BE41073	Sequence:		Calibration:	05/16/24 0
Instrument:	Buck 410				

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-01 File ID:

Sampled: 05/14/24 12:00 Prepared: 05/15/24 13:15 Analyzed: 05/15/24 15:53

Solids: 91.33 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE40992 Sequence: Calibration: 05/15/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-30

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-02	File ID:	
Sampled:	05/14/24 12:07	Prepared:	05/15/24 13:15	Analyzed:	05/15/24 15:53
Solids:	88.95	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE40992	Sequence:		Calibration:	05/15/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	89.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-03 File ID:

Sampled: 05/14/24 12:15 Prepared: 05/16/24 07:37 Analyzed: 05/16/24 10:13

Solids: 92.55 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41063 Sequence: Calibration: 05/16/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.6	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-31

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-04 File ID:

Sampled: 05/14/24 12:20 Prepared: 05/16/24 07:37 Analyzed: 05/16/24 10:13

Solids: 91.49 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41063 Sequence: Calibration: 05/16/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-19

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E0930

Client: YU & Associates Project: 22254 42-25 52nd Street

Matrix: Soil Laboratory ID: 24E0930-05 File ID:

Sampled: 05/14/24 12:26 Prepared: 05/16/24 07:37 Analyzed: 05/16/24 10:13

Solids: 93.46 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41063 Sequence: Calibration: 05/16/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-40

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E0930
Client:	YU & Associates			Project:	22254 42-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E0930-06	File ID:	
Sampled:	05/14/24 12:32	Prepared:	05/16/24 07:37	Analyzed:	05/16/24 10:13
Solids:	91.40	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE41063	Sequence:		Calibration:	05/16/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.4	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/18/2024
Client Project ID: 22254 42-25 52nd Street
York Project (SDG) No.: 24E0930

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 14, 2024 and listed below. The project was identified as your project: **22254 42-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E0930-01	EP-9	Soil	05/14/2024	05/14/2024
24E0930-02	EP-30	Soil	05/14/2024	05/14/2024
24E0930-03	EP-10	Soil	05/14/2024	05/14/2024
24E0930-04	EP-31	Soil	05/14/2024	05/14/2024
24E0930-05	EP-19	Soil	05/14/2024	05/14/2024
24E0930-06	EP-40	Soil	05/14/2024	05/14/2024
24E0930-07	EB_05142024	Water	05/14/2024	05/14/2024
24E0930-08	TB_05142024	Water	05/14/2024	05/14/2024

Work Order Narrative

York Analytical Work Order No.: 24E0930

Client : YU & Associates

Client Project ID : 22254 42-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/14/2024 8:00 PM

8 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{4.3}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-9	24E0930-01	Soil	05/14/2024 12:00 PM	05/14/2024 8:00 PM
EP-30	24E0930-02	Soil	05/14/2024 12:07 PM	05/14/2024 8:00 PM
EP-10	24E0930-03	Soil	05/14/2024 12:15 PM	05/14/2024 8:00 PM
EP-31	24E0930-04	Soil	05/14/2024 12:20 PM	05/14/2024 8:00 PM
EP-19	24E0930-05	Soil	05/14/2024 12:26 PM	05/14/2024 8:00 PM
EP-40	24E0930-06	Soil	05/14/2024 12:32 PM	05/14/2024 8:00 PM
EB_05142024	24E0930-07	Water	05/14/2024 1:45 PM	05/14/2024 8:00 PM
TB_05142024	24E0930-08	Water	05/14/2024 3:15 PM	05/14/2024 8:00 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5030B	EPA 8260C
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3510C	EPA 8270D SIM
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3015A	EPA 6010D
METALS	EPA 3050B	EPA 6010D
METALS	EPA 3015A	EPA 6020B
HG	EPA SW846-7470A	EPA 7470
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24E0930

Page 1 of 1

Page 211 of 2296

Report To:	Invoice To:	YOUR Project Name / Number	Samples Collected From
Company: Yu & Associates	Company:	22254 42-25 52nd St	NY ✓ CT Other: (please specify)
Address: 611 River Drive, Elmwood Park, NJ 07407	Address: →	PO Number: 22254	NJ PA
Phone.: 201-873-7543	Phone.:		
Contact: Chang@yu-associates.com	Contact:		
E-mail: Chengyu Hang	E-mail: →		

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Samples Collected by: (print AND sign your name)

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil | Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TCL VOCs	TCL SVOCs	TAL Metals	Pesticides/PCBs	Grab or Comp. G/C
EP-9	5/14/24	12:00	S	4		1								✓	✓	✓	✓	
EP-30		12:07	S	4		1								✓	✓	✓	✓	
EP-10		12:15	S	4		1								✓	✓	✓	✓	
EP-31		12:20	S	4		1								✓	✓	✓	✓	
EP-19		12:26	S	4		1								✓	✓	✓	✓	
EP-40	↓	12:32	S	4		1								✓	✓	✓	✓	
EB_05142024	↓	13:45	W	3	3		1							✓	✓	✓	✓	
TB_05142024			W		2									✓				

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day ✓
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day)
- PFAS Standard 7-10 Day

Report Type (circle)
- QA Report
- Summary (Results Only)
- NY ASP B Package
- NJ Reduced
- NJ DKQP
- NJ Full
- CT RCP

EDD Type (circle)
- EQuIS (standard)
- NYSDEC EQuIS
- NJDEP SRP Haz Site
- Standard Excel
- CMDP
- Other:

Regulatory Comparative
Compared to the following Regulation(s): (please fill in)

- Field Filtered
- Lab Filtered

Comments: Rush turn-around time for VOCs, Metals only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke Yu & Associates	5/14/24 15:15	[illegible]	5/14/24 1515	[illegible]	5/14/24 1515
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
[illegible]	05/14/24	[illegible]	05/14/24	Raman Duran	5/14/24 1800
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
Raman Duran	5/14/24 2000			[illegible]	5/14/24 20:00 4.3 Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E1184

Sampling Date: May 16, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1184
Date: August 28, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-04	24E1184-01	Soil	X	X	X
EP-25	24E1184-02	Soil	X	X	X
EP-05	24E1184-03	Soil	X	X	X
EP-26	24E1184-04	Soil	X	X	X
TB-51624	24E1184-05	Water	X		

The sample delivery group (SDG) contained results for four soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 7473B (Mercury - Soils); The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: Metals – The method blank reported a detect for Lead which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24E1184-03, 24E1184-04	Lead	J+

6. Calibration Quality Control: VOA – The percent difference (%D) in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-03	Acetone Tetrachloroethylene	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-01, 24E1184-02, 24E1184-04	Bromomethane Chloroethane	UJ
24E1184-03	Methyl acetate	UJ

SVOA – The percent difference (%D) in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-01 to 24E1184-04	2,4-Dimethylphenol Hexachloropentadiene	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-01 to 24E1184-04	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Benzidine Bis(2-chloroisopropyl)ether	UJ

7. Laboratory Control Sample (LCS): VOA – The percent recovery (%R) for both LCSs were below QC limits for Tetrachloroethylene. This resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-01, 24E1184-03 24E1184-04	Tetrachloroethylene	UJ

Sample ID	Compound	Qualifier
24E1184-02	Tetrachloroethylene	J

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Metals – The percent recoveries (%R) were outside of QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-03	Aluminum Calcium Iron Magnesium Manganese Potassium	J
	Antimony Silver	UJ

11. Lab Duplicate Relative Percent Difference (RPD): Metals – The RPD was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-03	Arsenic Chromium Copper Iron	J

12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Serial Dilution: The percent difference (%D) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1184-03	Calcium Magnesium Manganese	UJ

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the

Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-04

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-01	File ID:	V2628934.D
Sampled:	05/16/24 12:20	Prepared:	05/17/24 09:00	Analyzed:	05/17/24 15:58
Solids:	91.30	Preparation:	EPA 5035A	Initial/Final:	5.92 g / 5 ml
Batch:	BE41192	Sequence:	S4E2013	Calibration:	SE40012
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.093	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.038	
107-02-8	Acrolein	1	0.0093	U
107-13-1	Acrylonitrile	1	0.0046	U
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U J
75-15-0	Carbon disulfide	1	0.0046	U
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U J
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-04

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-01 File ID: V2628934.D

Sampled: 05/16/24 12:20 Prepared: 05/17/24 09:00 Analyzed: 05/17/24 15:58

Solids: 91.30 Preparation: EPA 5035A Initial/Final: 5.92 g / 5 ml

Batch: BE41192 Sequence: S4E2013 Calibration: SE40012 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0093	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0093	U
99-87-6	p-Isopropyltoluene	1	0.0046	U
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0046	U J
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.4	96.7	77 - 125	
SURR: Toluene-d8	50.0	46.7	93.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.4	105	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	79837	5.928	87761	5.922	
ISTD: Chlorobenzene-d5	332281	8.982	346366	8.976	
ISTD: 1,2-Dichlorobenzene-d4	152160	11.988	154408	11.982	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-25

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-02 File ID: V2628935.D

Sampled: 05/16/24 12:27 Prepared: 05/17/24 09:00 Analyzed: 05/17/24 16:26

Solids: 90.52 Preparation: EPA 5035A Initial/Final: 5.75 g / 5 ml

Batch: BE41192 Sequence: S4E2013 Calibration: SE40012 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0048	U
71-55-6	1,1,1-Trichloroethane	1	0.0048	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0048	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0048	U
79-00-5	1,1,2-Trichloroethane	1	0.0048	U
75-34-3	1,1-Dichloroethane	1	0.0048	U
75-35-4	1,1-Dichloroethylene	1	0.0048	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0048	U
96-18-4	1,2,3-Trichloropropane	1	0.0048	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0048	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0048	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0048	U
106-93-4	1,2-Dibromoethane	1	0.0048	U
95-50-1	1,2-Dichlorobenzene	1	0.0048	U
107-06-2	1,2-Dichloroethane	1	0.0048	U
78-87-5	1,2-Dichloropropane	1	0.0048	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0048	U
541-73-1	1,3-Dichlorobenzene	1	0.0048	U
106-46-7	1,4-Dichlorobenzene	1	0.0048	U
123-91-1	1,4-Dioxane	1	0.096	U
78-93-3	2-Butanone	1	0.0048	U
591-78-6	2-Hexanone	1	0.0048	U
108-10-1	4-Methyl-2-pentanone	1	0.0048	U
67-64-1	Acetone	1	0.0096	U
107-02-8	Acrolein	1	0.0096	U
107-13-1	Acrylonitrile	1	0.0048	U
71-43-2	Benzene	1	0.0048	U
74-97-5	Bromochloromethane	1	0.0048	U
75-27-4	Bromodichloromethane	1	0.0048	U
75-25-2	Bromoform	1	0.0048	U
74-83-9	Bromomethane	1	0.0048	UJ
75-15-0	Carbon disulfide	1	0.0048	U
56-23-5	Carbon tetrachloride	1	0.0048	U
108-90-7	Chlorobenzene	1	0.0048	U
75-00-3	Chloroethane	1	0.0048	UJ
67-66-3	Chloroform	1	0.0048	U
74-87-3	Chloromethane	1	0.0048	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0048	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0048	U
110-82-7	Cyclohexane	1	0.0048	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-25

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-02 File ID: V2628935.D

Sampled: 05/16/24 12:27 Prepared: 05/17/24 09:00 Analyzed: 05/17/24 16:26

Solids: 90.52 Preparation: EPA 5035A Initial/Final: 5.75 g / 5 ml

Batch: BE41192 Sequence: S4E2013 Calibration: SE40012 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0048	U
74-95-3	Dibromomethane	1	0.0048	U
75-71-8	Dichlorodifluoromethane	1	0.0048	U
100-41-4	Ethyl Benzene	1	0.0048	U
87-68-3	Hexachlorobutadiene	1	0.0048	U
98-82-8	Isopropylbenzene	1	0.0048	U
79-20-9	Methyl acetate	1	0.0048	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0048	U
108-87-2	Methylcyclohexane	1	0.0048	U
75-09-2	Methylene chloride	1	0.0096	U
104-51-8	n-Butylbenzene	1	0.0048	U
103-65-1	n-Propylbenzene	1	0.0048	U
95-47-6	o-Xylene	1	0.0048	U
179601-23-1	p- & m- Xylenes	1	0.0096	U
99-87-6	p-Isopropyltoluene	1	0.0048	U
135-98-8	sec-Butylbenzene	1	0.0048	U
100-42-5	Styrene	1	0.0048	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0048	U
98-06-6	tert-Butylbenzene	1	0.0048	U
127-18-4	Tetrachloroethylene	1	0.0055	J
108-88-3	Toluene	1	0.0048	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0048	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0048	U
79-01-6	Trichloroethylene	1	0.0048	U
75-69-4	Trichlorofluoromethane	1	0.0048	U
75-01-4	Vinyl Chloride	1	0.0048	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.0	94.0	77 - 125	
SURR: Toluene-d8	50.0	47.0	94.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.4	107	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	81018	5.928	87761	5.922	
ISTD: Chlorobenzene-d5	332502	8.976	346366	8.976	
ISTD: 1,2-Dichlorobenzene-d4	147780	11.988	154408	11.982	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	V11C017275.D
Sampled:	05/16/24 12:33	Prepared:	05/17/24 09:00	Analyzed:	05/17/24 16:09
Solids:	91.02	Preparation:	EPA 5035A	Initial/Final:	5.78 g / 5 ml
Batch:	BE41195	Sequence:	S4E2007	Calibration:	SD40040
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0048	U
71-55-6	1,1,1-Trichloroethane	1	0.0048	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0048	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0048	U
79-00-5	1,1,2-Trichloroethane	1	0.0048	U
75-34-3	1,1-Dichloroethane	1	0.0048	U
75-35-4	1,1-Dichloroethylene	1	0.0048	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0048	U
96-18-4	1,2,3-Trichloropropane	1	0.0048	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0048	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0048	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0048	U
106-93-4	1,2-Dibromoethane	1	0.0048	U
95-50-1	1,2-Dichlorobenzene	1	0.0048	U
107-06-2	1,2-Dichloroethane	1	0.0048	U
78-87-5	1,2-Dichloropropane	1	0.0048	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0048	U
541-73-1	1,3-Dichlorobenzene	1	0.0048	U
106-46-7	1,4-Dichlorobenzene	1	0.0048	U
123-91-1	1,4-Dioxane	1	0.095	U
78-93-3	2-Butanone	1	0.0048	U
591-78-6	2-Hexanone	1	0.0048	U
108-10-1	4-Methyl-2-pentanone	1	0.0048	U
67-64-1	Acetone	1	0.0095	U J
107-02-8	Acrolein	1	0.0095	U
107-13-1	Acrylonitrile	1	0.0048	U
71-43-2	Benzene	1	0.0048	U
74-97-5	Bromochloromethane	1	0.0048	U
75-27-4	Bromodichloromethane	1	0.0048	U
75-25-2	Bromoform	1	0.0048	U
74-83-9	Bromomethane	1	0.0048	U
75-15-0	Carbon disulfide	1	0.0048	U
56-23-5	Carbon tetrachloride	1	0.0048	U
108-90-7	Chlorobenzene	1	0.0048	U
75-00-3	Chloroethane	1	0.0048	U
67-66-3	Chloroform	1	0.0048	U
74-87-3	Chloromethane	1	0.0048	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0048	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0048	U
110-82-7	Cyclohexane	1	0.0048	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-05

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-03 File ID: V11C017275.D

Sampled: 05/16/24 12:33 Prepared: 05/17/24 09:00 Analyzed: 05/17/24 16:09

Solids: 91.02 Preparation: EPA 5035A Initial/Final: 5.78 g / 5 ml

Batch: BE41195 Sequence: S4E2007 Calibration: SD40040 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0048	U
74-95-3	Dibromomethane	1	0.0048	U
75-71-8	Dichlorodifluoromethane	1	0.0048	U
100-41-4	Ethyl Benzene	1	0.0048	U
87-68-3	Hexachlorobutadiene	1	0.0048	U
98-82-8	Isopropylbenzene	1	0.0048	U
79-20-9	Methyl acetate	1	0.0048	U J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0048	U
108-87-2	Methylcyclohexane	1	0.0048	U
75-09-2	Methylene chloride	1	0.0095	U
104-51-8	n-Butylbenzene	1	0.0048	U
103-65-1	n-Propylbenzene	1	0.0048	U
95-47-6	o-Xylene	1	0.0048	U
179601-23-1	p- & m- Xylenes	1	0.0095	U
99-87-6	p-Isopropyltoluene	1	0.0048	U
135-98-8	sec-Butylbenzene	1	0.0048	U
100-42-5	Styrene	1	0.0048	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0048	U
98-06-6	tert-Butylbenzene	1	0.0048	U
127-18-4	Tetrachloroethylene	1	0.0048	U J
108-88-3	Toluene	1	0.0048	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0048	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0048	U
79-01-6	Trichloroethylene	1	0.0048	U
75-69-4	Trichlorofluoromethane	1	0.0048	U
75-01-4	Vinyl Chloride	1	0.0048	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.2	98.3	77 - 125	
SURR: Toluene-d8	50.0	45.4	90.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	46.2	92.3	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	491363	6.054	523030	6.055	
ISTD: Chlorobenzene-d5	2147469	9.101	2285231	9.102	
ISTD: 1,2-Dichlorobenzene-d4	966593	12.099	1134290	12.1	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	V2628936.D
Sampled:	05/16/24 12:45	Prepared:	05/17/24 09:00	Analyzed:	05/17/24 16:53
Solids:	91.61	Preparation:	EPA 5035A	Initial/Final:	5.51 g / 5 ml
Batch:	BE41192	Sequence:	S4E2013	Calibration:	SE40012
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0050	U
71-55-6	1,1,1-Trichloroethane	1	0.0050	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0050	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0050	U
79-00-5	1,1,2-Trichloroethane	1	0.0050	U
75-34-3	1,1-Dichloroethane	1	0.0050	U
75-35-4	1,1-Dichloroethylene	1	0.0050	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0050	U
96-18-4	1,2,3-Trichloropropane	1	0.0050	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0050	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0050	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0050	U
106-93-4	1,2-Dibromoethane	1	0.0050	U
95-50-1	1,2-Dichlorobenzene	1	0.0050	U
107-06-2	1,2-Dichloroethane	1	0.0050	U
78-87-5	1,2-Dichloropropane	1	0.0050	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0050	U
541-73-1	1,3-Dichlorobenzene	1	0.0050	U
106-46-7	1,4-Dichlorobenzene	1	0.0050	U
123-91-1	1,4-Dioxane	1	0.099	U
78-93-3	2-Butanone	1	0.0050	U
591-78-6	2-Hexanone	1	0.0050	U
108-10-1	4-Methyl-2-pentanone	1	0.0050	U
67-64-1	Acetone	1	0.0099	U
107-02-8	Acrolein	1	0.0099	U
107-13-1	Acrylonitrile	1	0.0050	U
71-43-2	Benzene	1	0.0050	U
74-97-5	Bromochloromethane	1	0.0050	U
75-27-4	Bromodichloromethane	1	0.0050	U
75-25-2	Bromoform	1	0.0050	U
74-83-9	Bromomethane	1	0.0050	UJ
75-15-0	Carbon disulfide	1	0.0050	U
56-23-5	Carbon tetrachloride	1	0.0050	U
108-90-7	Chlorobenzene	1	0.0050	U
75-00-3	Chloroethane	1	0.0050	UJ
67-66-3	Chloroform	1	0.0050	U
74-87-3	Chloromethane	1	0.0050	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0050	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0050	U
110-82-7	Cyclohexane	1	0.0050	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-26

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-04 File ID: V2628936.D

Sampled: 05/16/24 12:45 Prepared: 05/17/24 09:00 Analyzed: 05/17/24 16:53

Solids: 91.61 Preparation: EPA 5035A Initial/Final: 5.51 g / 5 ml

Batch: BE41192 Sequence: S4E2013 Calibration: SE40012 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0050	U
74-95-3	Dibromomethane	1	0.0050	U
75-71-8	Dichlorodifluoromethane	1	0.0050	U
100-41-4	Ethyl Benzene	1	0.0050	U
87-68-3	Hexachlorobutadiene	1	0.0050	U
98-82-8	Isopropylbenzene	1	0.0050	U
79-20-9	Methyl acetate	1	0.0050	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0050	U
108-87-2	Methylcyclohexane	1	0.0050	U
75-09-2	Methylene chloride	1	0.0099	U
104-51-8	n-Butylbenzene	1	0.0050	U
103-65-1	n-Propylbenzene	1	0.0050	U
95-47-6	o-Xylene	1	0.0050	U
179601-23-1	p- & m- Xylenes	1	0.0099	U
99-87-6	p-Isopropyltoluene	1	0.0050	U
135-98-8	sec-Butylbenzene	1	0.0050	U
100-42-5	Styrene	1	0.0050	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0050	U
98-06-6	tert-Butylbenzene	1	0.0050	U
127-18-4	Tetrachloroethylene	1	0.0050	UJ
108-88-3	Toluene	1	0.0050	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0050	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0050	U
79-01-6	Trichloroethylene	1	0.0050	U
75-69-4	Trichlorofluoromethane	1	0.0050	U
75-01-4	Vinyl Chloride	1	0.0050	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.6	97.2	77 - 125	
SURR: Toluene-d8	50.0	47.0	94.1	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	77187	5.922	87761	5.922	
ISTD: Chlorobenzene-d5	321462	8.976	346366	8.976	
ISTD: 1,2-Dichlorobenzene-d4	147229	11.988	154408	11.982	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_51624

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E1184-05	File ID:	V855091.D
Sampled:	05/16/24 12:45	Prepared:	05/17/24 08:00	Analyzed:	05/17/24 14:22
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41190	Sequence:	S4E1714	Calibration:	SE40029
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_51624

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E1184-05	File ID:	V855091.D
Sampled:	05/16/24 12:45	Prepared:	05/17/24 08:00	Analyzed:	05/17/24 14:22
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41190	Sequence:	S4E1714	Calibration:	SE40029
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	9.67	96.7	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	528383	5.62	557602	5.62	
ISTD: Chlorobenzene-d5	1894067	8.637	1882462	8.637	
ISTD: 1,2-Dichlorobenzene-d4	818439	11.618	817844	11.618	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-04

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-01	File ID:	E70354624.D
Sampled:	05/16/24 12:20	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:41
Solids:	91.30	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0901	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0901	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0901	U
88-06-2	2,4,6-Trichlorophenol	2	0.0901	U
120-83-2	2,4-Dichlorophenol	2	0.0901	U
105-67-9	2,4-Dimethylphenol	2	0.0901	U J
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0901	U
606-20-2	2,6-Dinitrotoluene	2	0.0901	U
91-58-7	2-Chloronaphthalene	2	0.0901	U
95-57-8	2-Chlorophenol	2	0.0901	U
91-57-6	2-Methylnaphthalene	2	0.0901	U
95-48-7	2-Methylphenol	2	0.0901	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0901	U
65794-96-9	3- & 4-Methylphenols	2	0.0901	U
91-94-1	3,3-Dichlorobenzidine	2	0.0901	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0901	U
59-50-7	4-Chloro-3-methylphenol	2	0.0901	U
106-47-8	4-Chloroaniline	2	0.0901	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0901	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0901	U
208-96-8	Acenaphthylene	2	0.0901	U
98-86-2	Acetophenone	2	0.0901	U
62-53-3	Aniline	2	0.361	U
120-12-7	Anthracene	2	0.0901	U
1912-24-9	Atrazine	2	0.0901	U
100-52-7	Benzaldehyde	2	0.0901	U
92-87-5	Benzidine	2	0.361	U J
56-55-3	Benzo(a)anthracene	2	0.0901	U
50-32-8	Benzo(a)pyrene	2	0.0901	U
205-99-2	Benzo(b)fluoranthene	2	0.0901	U
191-24-2	Benzo(g,h,i)perylene	2	0.0901	U
207-08-9	Benzo(k)fluoranthene	2	0.0901	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-04

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-01	File ID:	E70354624.D
Sampled:	05/16/24 12:20	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:41
Solids:	91.30	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0901	U
100-51-6	Benzyl alcohol	2	0.0901	U
85-68-7	Benzyl butyl phthalate	2	0.0901	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0901	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0901	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0901	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0901	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0901	U
218-01-9	Chrysene	2	0.0901	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0901	U
132-64-9	Dibenzofuran	2	0.0901	U
84-66-2	Diethyl phthalate	2	0.0901	U
131-11-3	Dimethyl phthalate	2	0.0901	U
84-74-2	Di-n-butyl phthalate	2	0.0901	U
117-84-0	Di-n-octyl phthalate	2	0.0901	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0901	U
86-73-7	Fluorene	2	0.0901	U
118-74-1	Hexachlorobenzene	2	0.0901	U
87-68-3	Hexachlorobutadiene	2	0.0901	U
77-47-4	Hexachlorocyclopentadiene	2	0.0901	U J
67-72-1	Hexachloroethane	2	0.0901	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0901	U
78-59-1	Isophorone	2	0.0901	U
91-20-3	Naphthalene	2	0.0901	U
98-95-3	Nitrobenzene	2	0.0901	U
62-75-9	N-Nitrosodimethylamine	2	0.0901	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0901	U
86-30-6	N-Nitrosodiphenylamine	2	0.0901	U
87-86-5	Pentachlorophenol	2	0.0901	U
85-01-8	Phenanthrene	2	0.0901	U
108-95-2	Phenol	2	0.0901	U
129-00-0	Pyrene	2	0.0901	U
110-86-1	Pyridine	2	0.361	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.22	67.9	20 - 108	
SURR: Phenol-d6	1.80	1.09	60.6	23 - 114	
SURR: Nitrobenzene-d5	0.901	0.625	69.4	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-04

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-01	File ID:	E70354624.D
Sampled:	05/16/24 12:20	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:41
Solids:	91.30	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.901	0.638	70.9	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.65	91.5	19 - 110	
SURR: Terphenyl-d14	0.901	0.677	75.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	489620	4.6	529018	4.606	
ISTD: Naphthalene-d8	2021307	5.618	2285965	5.63	
ISTD: Acenaphthene-d10	1267499	7.207	1424941	7.218	
ISTD: Phenanthrene-d10	2167950	9.272	2411876	9.284	
ISTD: Chrysene-d12	1601505	13.833	1808302	13.851	
ISTD: Perylene-d12	1733422	16.801	1966111	16.812	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-25

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-02	File ID:	E70354625.D
Sampled:	05/16/24 12:27	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:11
Solids:	90.52	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0897	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.179	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0897	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.179	U
95-95-4	2,4,5-Trichlorophenol	2	0.0897	U
88-06-2	2,4,6-Trichlorophenol	2	0.0897	U
120-83-2	2,4-Dichlorophenol	2	0.0897	U
105-67-9	2,4-Dimethylphenol	2	0.0897	U J
51-28-5	2,4-Dinitrophenol	2	0.179	U J
121-14-2	2,4-Dinitrotoluene	2	0.0897	U
606-20-2	2,6-Dinitrotoluene	2	0.0897	U
91-58-7	2-Chloronaphthalene	2	0.0897	U
95-57-8	2-Chlorophenol	2	0.0897	U
91-57-6	2-Methylnaphthalene	2	0.0897	U
95-48-7	2-Methylphenol	2	0.0897	U
88-74-4	2-Nitroaniline	2	0.179	U
88-75-5	2-Nitrophenol	2	0.0897	U
65794-96-9	3- & 4-Methylphenols	2	0.0897	U
91-94-1	3,3-Dichlorobenzidine	2	0.0897	U
99-09-2	3-Nitroaniline	2	0.179	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.179	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0897	U
59-50-7	4-Chloro-3-methylphenol	2	0.0897	U
106-47-8	4-Chloroaniline	2	0.0897	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0897	U
100-01-6	4-Nitroaniline	2	0.179	U
100-02-7	4-Nitrophenol	2	0.179	U
83-32-9	Acenaphthene	2	0.0897	U
208-96-8	Acenaphthylene	2	0.0897	U
98-86-2	Acetophenone	2	0.0897	U
62-53-3	Aniline	2	0.359	U
120-12-7	Anthracene	2	0.0897	U
1912-24-9	Atrazine	2	0.0897	U
100-52-7	Benzaldehyde	2	0.0897	U
92-87-5	Benzidine	2	0.359	U J
56-55-3	Benzo(a)anthracene	2	0.0897	U
50-32-8	Benzo(a)pyrene	2	0.0897	U
205-99-2	Benzo(b)fluoranthene	2	0.0897	U
191-24-2	Benzo(g,h,i)perylene	2	0.0897	U
207-08-9	Benzo(k)fluoranthene	2	0.0897	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-25

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-02	File ID:	E70354625.D
Sampled:	05/16/24 12:27	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:11
Solids:	90.52	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0897	U
100-51-6	Benzyl alcohol	2	0.0897	U
85-68-7	Benzyl butyl phthalate	2	0.0897	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0897	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0897	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0897	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0897	U
105-60-2	Caprolactam	2	0.179	U
86-74-8	Carbazole	2	0.0897	U
218-01-9	Chrysene	2	0.0897	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0897	U
132-64-9	Dibenzofuran	2	0.0897	U
84-66-2	Diethyl phthalate	2	0.0897	U
131-11-3	Dimethyl phthalate	2	0.0897	U
84-74-2	Di-n-butyl phthalate	2	0.0897	U
117-84-0	Di-n-octyl phthalate	2	0.0897	U
122-39-4	Diphenylamine	2	0.179	U
206-44-0	Fluoranthene	2	0.0897	U
86-73-7	Fluorene	2	0.0897	U
118-74-1	Hexachlorobenzene	2	0.0897	U
87-68-3	Hexachlorobutadiene	2	0.0897	U
77-47-4	Hexachlorocyclopentadiene	2	0.0897	U J
67-72-1	Hexachloroethane	2	0.0897	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0897	U
78-59-1	Isophorone	2	0.0897	U
91-20-3	Naphthalene	2	0.0897	U
98-95-3	Nitrobenzene	2	0.0897	U
62-75-9	N-Nitrosodimethylamine	2	0.0897	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0897	U
86-30-6	N-Nitrosodiphenylamine	2	0.0897	U
87-86-5	Pentachlorophenol	2	0.0897	U
85-01-8	Phenanthrene	2	0.0897	U
108-95-2	Phenol	2	0.0897	U
129-00-0	Pyrene	2	0.0897	U
110-86-1	Pyridine	2	0.359	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.79	1.22	68.0	20 - 108	
SURR: Phenol-d6	1.79	1.14	63.5	23 - 114	
SURR: Nitrobenzene-d5	0.897	0.659	73.5	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-25

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-02	File ID:	E70354625.D
Sampled:	05/16/24 12:27	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:11
Solids:	90.52	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.897	0.672	75.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.79	1.57	87.3	19 - 110	
SURR: Terphenyl-d14	0.897	0.713	79.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	469625	4.595	529018	4.606	
ISTD: Naphthalene-d8	1939316	5.613	2285965	5.63	
ISTD: Acenaphthene-d10	1213589	7.201	1424941	7.218	
ISTD: Phenanthrene-d10	2083409	9.266	2411876	9.284	
ISTD: Chrysene-d12	1513143	13.828	1808302	13.851	
ISTD: Perylene-d12	1620881	16.795	1966111	16.812	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	E70354626.D
Sampled:	05/16/24 12:33	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:42
Solids:	91.02	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0901	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0901	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0901	U
88-06-2	2,4,6-Trichlorophenol	2	0.0901	U
120-83-2	2,4-Dichlorophenol	2	0.0901	U
105-67-9	2,4-Dimethylphenol	2	0.0901	U J
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0901	U
606-20-2	2,6-Dinitrotoluene	2	0.0901	U
91-58-7	2-Chloronaphthalene	2	0.0901	U
95-57-8	2-Chlorophenol	2	0.0901	U
91-57-6	2-Methylnaphthalene	2	0.0901	U
95-48-7	2-Methylphenol	2	0.0901	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0901	U
65794-96-9	3- & 4-Methylphenols	2	0.0901	U
91-94-1	3,3-Dichlorobenzidine	2	0.0901	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0901	U
59-50-7	4-Chloro-3-methylphenol	2	0.0901	U
106-47-8	4-Chloroaniline	2	0.0901	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0901	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0901	U
208-96-8	Acenaphthylene	2	0.0901	U
98-86-2	Acetophenone	2	0.0901	U
62-53-3	Aniline	2	0.361	U
120-12-7	Anthracene	2	0.0901	U
1912-24-9	Atrazine	2	0.0901	U
100-52-7	Benzaldehyde	2	0.0901	U
92-87-5	Benzidine	2	0.361	U J
56-55-3	Benzo(a)anthracene	2	0.0901	U
50-32-8	Benzo(a)pyrene	2	0.0901	U
205-99-2	Benzo(b)fluoranthene	2	0.0901	U
191-24-2	Benzo(g,h,i)perylene	2	0.0901	U
207-08-9	Benzo(k)fluoranthene	2	0.0901	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	E70354626.D
Sampled:	05/16/24 12:33	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:42
Solids:	91.02	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0901	U
100-51-6	Benzyl alcohol	2	0.0901	U
85-68-7	Benzyl butyl phthalate	2	0.0901	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0901	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0901	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0901	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0901	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0901	U
218-01-9	Chrysene	2	0.0901	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0901	U
132-64-9	Dibenzofuran	2	0.0901	U
84-66-2	Diethyl phthalate	2	0.0901	U
131-11-3	Dimethyl phthalate	2	0.0901	U
84-74-2	Di-n-butyl phthalate	2	0.0901	U
117-84-0	Di-n-octyl phthalate	2	0.0901	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0901	U
86-73-7	Fluorene	2	0.0901	U
118-74-1	Hexachlorobenzene	2	0.0901	U
87-68-3	Hexachlorobutadiene	2	0.0901	U
77-47-4	Hexachlorocyclopentadiene	2	0.0901	U J
67-72-1	Hexachloroethane	2	0.0901	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0901	U
78-59-1	Isophorone	2	0.0901	U
91-20-3	Naphthalene	2	0.0901	U
98-95-3	Nitrobenzene	2	0.0901	U
62-75-9	N-Nitrosodimethylamine	2	0.0901	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0901	U
86-30-6	N-Nitrosodiphenylamine	2	0.0901	U
87-86-5	Pentachlorophenol	2	0.0901	U
85-01-8	Phenanthrene	2	0.0901	U
108-95-2	Phenol	2	0.0901	U
129-00-0	Pyrene	2	0.0901	U
110-86-1	Pyridine	2	0.361	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.39	77.4	20 - 108	
SURR: Phenol-d6	1.80	1.24	68.9	23 - 114	
SURR: Nitrobenzene-d5	0.901	0.720	79.9	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	E70354626.D
Sampled:	05/16/24 12:33	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 13:42
Solids:	91.02	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.901	0.735	81.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.81	101	19 - 110	
SURR: Terphenyl-d14	0.901	0.782	86.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	499230	4.6	529018	4.606	
ISTD: Naphthalene-d8	2035268	5.618	2285965	5.63	
ISTD: Acenaphthene-d10	1286519	7.201	1424941	7.218	
ISTD: Phenanthrene-d10	2200860	9.266	2411876	9.284	
ISTD: Chrysene-d12	1587863	13.827	1808302	13.851	
ISTD: Perylene-d12	1698069	16.789	1966111	16.812	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	E70354627.D
Sampled:	05/16/24 12:45	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 14:12
Solids:	91.61	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0895	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.179	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0895	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.179	U
95-95-4	2,4,5-Trichlorophenol	2	0.0895	U
88-06-2	2,4,6-Trichlorophenol	2	0.0895	U
120-83-2	2,4-Dichlorophenol	2	0.0895	U
105-67-9	2,4-Dimethylphenol	2	0.0895	U J
51-28-5	2,4-Dinitrophenol	2	0.179	U J
121-14-2	2,4-Dinitrotoluene	2	0.0895	U
606-20-2	2,6-Dinitrotoluene	2	0.0895	U
91-58-7	2-Chloronaphthalene	2	0.0895	U
95-57-8	2-Chlorophenol	2	0.0895	U
91-57-6	2-Methylnaphthalene	2	0.0895	U
95-48-7	2-Methylphenol	2	0.0895	U
88-74-4	2-Nitroaniline	2	0.179	U
88-75-5	2-Nitrophenol	2	0.0895	U
65794-96-9	3- & 4-Methylphenols	2	0.0895	U
91-94-1	3,3-Dichlorobenzidine	2	0.0895	U
99-09-2	3-Nitroaniline	2	0.179	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.179	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0895	U
59-50-7	4-Chloro-3-methylphenol	2	0.0895	U
106-47-8	4-Chloroaniline	2	0.0895	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0895	U
100-01-6	4-Nitroaniline	2	0.179	U
100-02-7	4-Nitrophenol	2	0.179	U
83-32-9	Acenaphthene	2	0.0895	U
208-96-8	Acenaphthylene	2	0.0895	U
98-86-2	Acetophenone	2	0.0895	U
62-53-3	Aniline	2	0.359	U
120-12-7	Anthracene	2	0.0895	U
1912-24-9	Atrazine	2	0.0895	U
100-52-7	Benzaldehyde	2	0.0895	U
92-87-5	Benzidine	2	0.359	U J
56-55-3	Benzo(a)anthracene	2	0.0895	U
50-32-8	Benzo(a)pyrene	2	0.0895	U
205-99-2	Benzo(b)fluoranthene	2	0.0895	U
191-24-2	Benzo(g,h,i)perylene	2	0.0895	U
207-08-9	Benzo(k)fluoranthene	2	0.0895	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	E70354627.D
Sampled:	05/16/24 12:45	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 14:12
Solids:	91.61	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0895	U
100-51-6	Benzyl alcohol	2	0.0895	U
85-68-7	Benzyl butyl phthalate	2	0.0895	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0895	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0895	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0895	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0895	U
105-60-2	Caprolactam	2	0.179	U
86-74-8	Carbazole	2	0.0895	U
218-01-9	Chrysene	2	0.0895	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0895	U
132-64-9	Dibenzofuran	2	0.0895	U
84-66-2	Diethyl phthalate	2	0.0895	U
131-11-3	Dimethyl phthalate	2	0.0895	U
84-74-2	Di-n-butyl phthalate	2	0.0895	U
117-84-0	Di-n-octyl phthalate	2	0.0895	U
122-39-4	Diphenylamine	2	0.179	U
206-44-0	Fluoranthene	2	0.0895	U
86-73-7	Fluorene	2	0.0895	U
118-74-1	Hexachlorobenzene	2	0.0895	U
87-68-3	Hexachlorobutadiene	2	0.0895	U
77-47-4	Hexachlorocyclopentadiene	2	0.0895	U J
67-72-1	Hexachloroethane	2	0.0895	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0895	U
78-59-1	Isophorone	2	0.0895	U
91-20-3	Naphthalene	2	0.0895	U
98-95-3	Nitrobenzene	2	0.0895	U
62-75-9	N-Nitrosodimethylamine	2	0.0895	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0895	U
86-30-6	N-Nitrosodiphenylamine	2	0.0895	U
87-86-5	Pentachlorophenol	2	0.0895	U
85-01-8	Phenanthrene	2	0.0895	U
108-95-2	Phenol	2	0.0895	U
129-00-0	Pyrene	2	0.0895	U
110-86-1	Pyridine	2	0.359	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.79	1.26	70.7	20 - 108	
SURR: Phenol-d6	1.79	1.16	64.9	23 - 114	
SURR: Nitrobenzene-d5	0.895	0.651	72.7	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	E70354627.D
Sampled:	05/16/24 12:45	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 14:12
Solids:	91.61	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.895	0.677	75.7	21 - 113	
SURR: 2,4,6-Tribromophenol	1.79	1.70	95.2	19 - 110	
SURR: Terphenyl-d14	0.895	0.724	81.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	478292	4.606	529018	4.606	
ISTD: Naphthalene-d8	2001215	5.624	2285965	5.63	
ISTD: Acenaphthene-d10	1267138	7.213	1424941	7.218	
ISTD: Phenanthrene-d10	2145849	9.272	2411876	9.284	
ISTD: Chrysene-d12	1588524	13.839	1808302	13.851	
ISTD: Perylene-d12	1725914	16.801	1966111	16.812	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-04

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-01 File ID: P20520510.d

Sampled: 05/16/24 12:20 Prepared: 05/18/24 07:01 Analyzed: 05/20/24 18:47

Solids: 91.30 Preparation: EPA 3550C Initial/Final: 30.7 g / 10 mL

Batch: BE41246 Sequence: S4E2057 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0714	0.0715	100	30 - 150	
Tetrachloro-m-xylene	0.0714	0.0596	83.6	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-25

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-02 File ID: P20520511.d

Sampled: 05/16/24 12:27 Prepared: 05/18/24 07:01 Analyzed: 05/20/24 19:03

Solids: 90.52 Preparation: EPA 3550C Initial/Final: 30.7 g / 10 mL

Batch: BE41246 Sequence: S4E2057 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0720	0.0736	102	30 - 150	
Tetrachloro-m-xylene	0.0720	0.0649	90.2	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-05

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-03 File ID: P20520513.d

Sampled: 05/16/24 12:33 Prepared: 05/18/24 07:01 Analyzed: 05/20/24 19:36

Solids: 91.02 Preparation: EPA 3550C Initial/Final: 30.7 g / 10 mL

Batch: BE41246 Sequence: S4E2057 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0354	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0716	0.0766	107	30 - 150	
Tetrachloro-m-xylene	0.0716	0.0675	94.3	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-26

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-04 File ID: P20520514.d

Sampled: 05/16/24 12:45 Prepared: 05/18/24 07:01 Analyzed: 05/20/24 19:53

Solids: 91.61 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BE41246 Sequence: S4E2057 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0718	0.0720	100	30 - 150	
Tetrachloro-m-xylene	0.0718	0.0636	88.6	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-04

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-01	File ID:	P1146227.D
Sampled:	05/16/24 12:20	Prepared:	05/18/24 07:01	Analyzed:	05/20/24 02:56
Solids:	91.30	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BE41246	Sequence:	S4E2041	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0714	0.0471	66.0	30 - 120	
Decachlorobiphenyl	0.0714	0.0521	73.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-25

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-02	File ID:	P1146228.D
Sampled:	05/16/24 12:27	Prepared:	05/18/24 07:01	Analyzed:	05/20/24 03:09
Solids:	90.52	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BE41246	Sequence:	S4E2041	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0720	0.0504	70.0	30 - 120	
Decachlorobiphenyl	0.0720	0.0561	78.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	P1146229.D
Sampled:	05/16/24 12:33	Prepared:	05/18/24 07:01	Analyzed:	05/20/24 03:23
Solids:	91.02	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BE41246	Sequence:	S4E2041	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0716	0.0522	73.0	30 - 120	
Decachlorobiphenyl	0.0716	0.0551	77.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	P1146230.D
Sampled:	05/16/24 12:45	Prepared:	05/18/24 07:01	Analyzed:	05/20/24 03:37
Solids:	91.61	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BE41246	Sequence:	S4E2041	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0718	0.0496	69.0	30 - 120	
Decachlorobiphenyl	0.0718	0.0546	76.0	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-04

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-01 File ID: QBICP2-052024ARE_1-137

Sampled: 05/16/24 12:20 Prepared: 05/19/24 10:49 Analyzed: 05/20/24 18:16

Solids: 91.30 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41256 Sequence: S4E2104 Calibration: 05/20/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6790	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	1.41	1		EPA 6010D
7440-39-3	Barium	40.1	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.274	1	U	EPA 6010D
7440-70-2	Calcium	4970	1		EPA 6010D
7440-47-3	Chromium	14.8	1		EPA 6010D
7440-48-4	Cobalt	4.26	1		EPA 6010D
7440-50-8	Copper	14.4	1		EPA 6010D
7439-89-6	Iron	9410	1		EPA 6010D
7439-92-1	Lead	9.22	1	B	EPA 6010D
7439-95-4	Magnesium	2610	1		EPA 6010D
7439-96-5	Manganese	300	1		EPA 6010D
7440-02-0	Nickel	9.55	1		EPA 6010D
7440-09-7	Potassium	1120	1		EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.460	1	U	EPA 6010D
7440-23-5	Sodium	149	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	17.6	1		EPA 6010D
7440-66-6	Zinc	32.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-25

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-02 File ID: QBICP2-052024ARE_1-138

Sampled: 05/16/24 12:27 Prepared: 05/19/24 10:49 Analyzed: 05/20/24 18:19

Solids: 90.52 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41256 Sequence: S4E2104 Calibration: 05/20/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6720	1		EPA 6010D
7440-36-0	Antimony	2.30	1	U	EPA 6010D
7440-38-2	Arsenic	1.79	1		EPA 6010D
7440-39-3	Barium	43.5	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.276	1	U	EPA 6010D
7440-70-2	Calcium	1990	1		EPA 6010D
7440-47-3	Chromium	14.0	1		EPA 6010D
7440-48-4	Cobalt	4.28	1		EPA 6010D
7440-50-8	Copper	12.6	1		EPA 6010D
7439-89-6	Iron	10400	1		EPA 6010D
7439-92-1	Lead	5.59	1	B	EPA 6010D
7439-95-4	Magnesium	1880	1		EPA 6010D
7439-96-5	Manganese	306	1		EPA 6010D
7440-02-0	Nickel	9.64	1		EPA 6010D
7440-09-7	Potassium	1120	1		EPA 6010D
7782-49-2	Selenium	2.30	1	U	EPA 6010D
7440-22-4	Silver	0.464	1	U	EPA 6010D
7440-23-5	Sodium	117	1		EPA 6010D
7440-28-0	Thallium	2.30	1	U	EPA 6010D
7440-62-2	Vanadium	22.7	1		EPA 6010D
7440-66-6	Zinc	25.7	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-05

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-03 File ID: QBICP2-052024ARE_1-141

Sampled: 05/16/24 12:33 Prepared: 05/19/24 10:49 Analyzed: 05/20/24 18:27

Solids: 91.02 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41256 Sequence: S4E2104 Calibration: 05/20/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6150	1	J	EPA 6010D
7440-36-0	Antimony	2.29	1	U J	EPA 6010D
7440-38-2	Arsenic	1.78	1	J	EPA 6010D
7440-39-3	Barium	35.1	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.275	1	U	EPA 6010D
7440-70-2	Calcium	841	1	J	EPA 6010D
7440-47-3	Chromium	11.4	1	J	EPA 6010D
7440-48-4	Cobalt	3.99	1		EPA 6010D
7440-50-8	Copper	11.5	1	J	EPA 6010D
7439-89-6	Iron	8330	1	J	EPA 6010D
7439-92-1	Lead	4.99	1	~~B~~ J+	EPA 6010D
7439-95-4	Magnesium	1620	1	J	EPA 6010D
7439-96-5	Manganese	318	1	J	EPA 6010D
7440-02-0	Nickel	8.75	1		EPA 6010D
7440-09-7	Potassium	1040	1	J	EPA 6010D
7782-49-2	Selenium	2.29	1	U	EPA 6010D
7440-22-4	Silver	0.461	1	U J	EPA 6010D
7440-23-5	Sodium	104	1		EPA 6010D
7440-28-0	Thallium	2.29	1	U	EPA 6010D
7440-62-2	Vanadium	16.9	1		EPA 6010D
7440-66-6	Zinc	21.1	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-26

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-04 File ID: QBICP2-052024ARE_1-146

Sampled: 05/16/24 12:45 Prepared: 05/19/24 10:49 Analyzed: 05/20/24 18:41

Solids: 91.61 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41256 Sequence: S4E2104 Calibration: 05/20/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6620	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.71	1		EPA 6010D
7440-39-3	Barium	40.5	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.273	1	U	EPA 6010D
7440-70-2	Calcium	943	1		EPA 6010D
7440-47-3	Chromium	13.7	1		EPA 6010D
7440-48-4	Cobalt	4.53	1		EPA 6010D
7440-50-8	Copper	12.8	1		EPA 6010D
7439-89-6	Iron	9660	1		EPA 6010D
7439-92-1	Lead	4.94	1	~~B~~ J+	EPA 6010D
7439-95-4	Magnesium	1720	1		EPA 6010D
7439-96-5	Manganese	356	1		EPA 6010D
7440-02-0	Nickel	10.4	1		EPA 6010D
7440-09-7	Potassium	1010	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.458	1	U	EPA 6010D
7440-23-5	Sodium	108	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	17.8	1		EPA 6010D
7440-66-6	Zinc	20.9	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-04

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-01 File ID: QBHg DMA 80-03 052024a

Sampled: 05/16/24 12:20 Prepared: 05/20/24 08:35 Analyzed: 05/21/24 08:05

Solids: 91.30 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BE41308 Sequence: S4E2044 Calibration: 05/21/24 0 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0329	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-25

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-02 File ID: QBHg DMA 80-03 052024a

Sampled: 05/16/24 12:27 Prepared: 05/20/24 08:35 Analyzed: 05/21/24 08:05

Solids: 90.52 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BE41308 Sequence: S4E2044 Calibration: 05/21/24 0 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0331	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	QBHg DMA 80-03 052024a
Sampled:	05/16/24 12:33	Prepared:	05/20/24 08:35	Analyzed:	05/21/24 08:05
Solids:	91.02	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41308	Sequence:	S4E2044	Calibration:	05/21/24 0
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0330	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-26

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-04	File ID:	QBHg DMA 80-03 052024a
Sampled:	05/16/24 12:45	Prepared:	05/20/24 08:35	Analyzed:	05/21/24 08:05
Solids:	91.61	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41308	Sequence:	S4E2044	Calibration:	05/21/24 0
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0327	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-04

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-01 File ID:

Sampled: 05/16/24 12:20 Prepared: 05/17/24 07:41 Analyzed: 05/17/24 11:40

Solids: 91.30 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41169 Sequence: Calibration: 05/17/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-25

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-02	File ID:	
Sampled:	05/16/24 12:27	Prepared:	05/17/24 12:25	Analyzed:	05/17/24 14:44
Solids:	90.52	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE41171	Sequence:		Calibration:	05/17/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-05

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1184
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1184-03	File ID:	
Sampled:	05/16/24 12:33	Prepared:	05/17/24 12:25	Analyzed:	05/17/24 14:44
Solids:	91.02	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BE41171	Sequence:		Calibration:	05/17/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-26

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1184

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1184-04 File ID:

Sampled: 05/16/24 12:45 Prepared: 05/17/24 12:25 Analyzed: 05/17/24 14:44

Solids: 91.61 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41171 Sequence: Calibration: 05/17/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.6	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/21/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24E1184

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 16, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1184-01	EP-04	Soil	05/16/2024	05/16/2024
24E1184-02	EP-25	Soil	05/16/2024	05/16/2024
24E1184-03	EP-05	Soil	05/16/2024	05/16/2024
24E1184-04	EP-26	Soil	05/16/2024	05/16/2024
24E1184-05	TB_51624	Water	05/16/2024	05/16/2024

Work Order Narrative

York Analytical Work Order No.: 24E1184

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/16/2024 8:15 PM

5 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{2.1}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-04	24E1184-01	Soil	05/16/2024 12:20 PM	05/16/2024 8:15 PM
EP-25	24E1184-02	Soil	05/16/2024 12:27 PM	05/16/2024 8:15 PM
EP-05	24E1184-03	Soil	05/16/2024 12:33 PM	05/16/2024 8:15 PM
EP-26	24E1184-04	Soil	05/16/2024 12:45 PM	05/16/2024 8:15 PM
TB_51624	24E1184-05	Water	05/16/2024 12:45 PM	05/16/2024 8:15 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24E1184

Page 1 of 1

Report To:
Company: Yu & Associates
Address: 611 River Drive, Elmwood Park, NJ 07407
Phone.: 201-873-7543
Contact: Chengyu Hang
E-mail: Chang@yu-associates.com

Invoice To:
Company: →
Address:
Phone.:
Contact: →
E-mail:

YOUR Project Name / Number: 22254 43-25 52nd St

PO Number: 22254

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day ✓
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day)
- PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Samples Collected by: (print AND sign your name)

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil | Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TCL VOCs	TCL SVOCs	TAL Metals	Pesticides/PCBs	Grab or Comp.
EP-04	5/16/24	12:20	S	4		1								✓	✓	✓	✓	G/C
EP-25		12:27		4		1								✓	✓	✓	✓	
EP-05		12:33		4		1								✓	✓	✓	✓	
EP-05-MS		12:36		4		1								✓	✓	✓	✓	
EP-05-MSD		12:40		4		1								✓	✓	✓	✓	
EP-26		12:45		4		1								✓	✓	✓	✓	
[redacted] TB-51624			W		2									✓				

Report Type (circle)
- QA Report
- Summary (Results Only)
- NY ASP B Package
- NJ Reduced
- NJ DKQP
- NJ Full
- CT RCP

EDD Type (circle)
- EQuIS (standard)
- NYSDEC EQuIS
- NJDEP SRP Haz Site
- Standard Excel
- CMDP
- Other:

Regulatory Comparative
Compared to the following Regulation(s): (please fill in)

- Field Filtered
- Lab Filtered

Comments: Rush turn-around time for VOCs, Metals only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Matthew O'Rourke / Yu & Associates	Date/Time: 5/16/24 13:25	1. Samples Received by / Company:	Date/Time: 5/16/24
2. Samples Received by / Company:	Date/Time: 05/16/24 15:04	3. Samples Relinquished by / Company:	Date/Time: 05/16/24
4. Samples Relinquished by / Company: Ramon I Duran	Date/Time: 5/16/24 20:15	4. Samples Received by / Company:	Date/Time:
2. Samples Relinquished by / Company:	Date/Time: 5/16/24 1350	3. Samples Received by / Company: Ramon I Duran	Date/Time: 5/16/24 1900
Samples Received in LAB by: KMA	Date/Time: 5/16/24 20:15	Temperature: 2.1 Degrees C	

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DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E1295

Sampling Date: May 17, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1295
Date: August 28, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-06	24E1295-01	Soil	X	X	X
EP-27	24E1295-02	Soil	X	X	X
TB-051724	24E1295-03	Water	X		

The sample delivery group (SDG) contained results for two soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 7473B (Mercury - Soils); The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA – The percent difference in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1295-01	Acetone Tetrachloroethylene	UJ
24E1295-02	Acetone	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1295-01, 24E1295-02	Bromomethane Chloromethane Dichlorodifluoromethane Methylene chloride Vinyl chloride	UJ

SVOA – The percent difference in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1295-01, 24E1295-02	2,4-Dimethylphenol Hexachlorocyclopentadiene	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1295-01, 24E1295-02	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Benzidine Bis(2-chloroisopropyl)ether	UJ

7. Laboratory Control Sample (LCS): The results are acceptable.
8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** The results are acceptable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable

14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-06

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-01	File ID:	V5439660.D
Sampled:	05/17/24 13:00	Prepared:	05/18/24 09:00	Analyzed:	05/18/24 15:50
Solids:	92.81	Preparation:	EPA 5035A	Initial/Final:	5.62 g / 5 ml
Batch:	BE41258	Sequence:	S4E2016	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0048	U
71-55-6	1,1,1-Trichloroethane	1	0.0048	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0048	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0048	U
79-00-5	1,1,2-Trichloroethane	1	0.0048	U
75-34-3	1,1-Dichloroethane	1	0.0048	U
75-35-4	1,1-Dichloroethylene	1	0.0048	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0048	U
96-18-4	1,2,3-Trichloropropane	1	0.0048	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0048	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0048	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0048	U
106-93-4	1,2-Dibromoethane	1	0.0048	U
95-50-1	1,2-Dichlorobenzene	1	0.0048	U
107-06-2	1,2-Dichloroethane	1	0.0048	U
78-87-5	1,2-Dichloropropane	1	0.0048	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0048	U
541-73-1	1,3-Dichlorobenzene	1	0.0048	U
106-46-7	1,4-Dichlorobenzene	1	0.0048	U
123-91-1	1,4-Dioxane	1	0.096	U
78-93-3	2-Butanone	1	0.0048	U
591-78-6	2-Hexanone	1	0.0048	U
108-10-1	4-Methyl-2-pentanone	1	0.0048	U
67-64-1	Acetone	1	0.0096	U J
107-02-8	Acrolein	1	0.0096	U
107-13-1	Acrylonitrile	1	0.0048	U
71-43-2	Benzene	1	0.0048	U
74-97-5	Bromochloromethane	1	0.0048	U
75-27-4	Bromodichloromethane	1	0.0048	U
75-25-2	Bromoform	1	0.0048	U
74-83-9	Bromomethane	1	0.0048	U J
75-15-0	Carbon disulfide	1	0.0048	U
56-23-5	Carbon tetrachloride	1	0.0048	U
108-90-7	Chlorobenzene	1	0.0048	U
75-00-3	Chloroethane	1	0.0048	U
67-66-3	Chloroform	1	0.0048	U
74-87-3	Chloromethane	1	0.0048	U J
156-59-2	cis-1,2-Dichloroethylene	1	0.0048	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0048	U
110-82-7	Cyclohexane	1	0.0048	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID: V5439660.D

Sampled: 05/17/24 13:00 Prepared: 05/18/24 09:00 Analyzed: 05/18/24 15:50

Solids: 92.81 Preparation: EPA 5035A Initial/Final: 5.62 g / 5 ml

Batch: BE41258 Sequence: S4E2016 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0048	U
74-95-3	Dibromomethane	1	0.0048	U
75-71-8	Dichlorodifluoromethane	1	0.0048	UJ
100-41-4	Ethyl Benzene	1	0.0048	U
87-68-3	Hexachlorobutadiene	1	0.0048	U
98-82-8	Isopropylbenzene	1	0.0048	U
79-20-9	Methyl acetate	1	0.0048	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0048	U
108-87-2	Methylcyclohexane	1	0.0048	U
75-09-2	Methylene chloride	1	0.0096	UJ
104-51-8	n-Butylbenzene	1	0.0048	U
103-65-1	n-Propylbenzene	1	0.0048	U
95-47-6	o-Xylene	1	0.0048	U
179601-23-1	p- & m- Xylenes	1	0.0096	U
99-87-6	p-Isopropyltoluene	1	0.0048	U
135-98-8	sec-Butylbenzene	1	0.0048	U
100-42-5	Styrene	1	0.0048	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0048	U
98-06-6	tert-Butylbenzene	1	0.0048	U
127-18-4	Tetrachloroethylene	1	0.0048	UJ
108-88-3	Toluene	1	0.0048	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0048	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0048	U
79-01-6	Trichloroethylene	1	0.0048	U
75-69-4	Trichlorofluoromethane	1	0.0048	U
75-01-4	Vinyl Chloride	1	0.0048	UJ
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.0	102	77 - 125	
SURR: Toluene-d8	50.0	48.7	97.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.0	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	166224	6.029	194601	6.029	
ISTD: Chlorobenzene-d5	579942	9.064	691988	9.064	
ISTD: 1,2-Dichlorobenzene-d4	222137	12.048	294983	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	V5439661.D
Sampled:	05/17/24 13:10	Prepared:	05/18/24 09:00	Analyzed:	05/18/24 16:16
Solids:	91.27	Preparation:	EPA 5035A	Initial/Final:	6.07 g / 5 ml
Batch:	BE41258	Sequence:	S4E2016	Calibration:	SD40028
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U
71-55-6	1,1,1-Trichloroethane	1	0.0045	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U
79-00-5	1,1,2-Trichloroethane	1	0.0045	U
75-34-3	1,1-Dichloroethane	1	0.0045	U
75-35-4	1,1-Dichloroethylene	1	0.0045	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U
96-18-4	1,2,3-Trichloropropane	1	0.0045	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0045	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U
106-93-4	1,2-Dibromoethane	1	0.0045	U
95-50-1	1,2-Dichlorobenzene	1	0.0045	U
107-06-2	1,2-Dichloroethane	1	0.0045	U
78-87-5	1,2-Dichloropropane	1	0.0045	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0045	U
541-73-1	1,3-Dichlorobenzene	1	0.0045	U
106-46-7	1,4-Dichlorobenzene	1	0.0045	U
123-91-1	1,4-Dioxane	1	0.090	U
78-93-3	2-Butanone	1	0.0045	U
591-78-6	2-Hexanone	1	0.0045	U
108-10-1	4-Methyl-2-pentanone	1	0.0045	U
67-64-1	Acetone	1	0.0090	UJ
107-02-8	Acrolein	1	0.0090	U
107-13-1	Acrylonitrile	1	0.0045	U
71-43-2	Benzene	1	0.0045	U
74-97-5	Bromochloromethane	1	0.0045	U
75-27-4	Bromodichloromethane	1	0.0045	U
75-25-2	Bromoform	1	0.0045	U
74-83-9	Bromomethane	1	0.0045	UJ
75-15-0	Carbon disulfide	1	0.0045	U
56-23-5	Carbon tetrachloride	1	0.0045	U
108-90-7	Chlorobenzene	1	0.0045	U
75-00-3	Chloroethane	1	0.0045	U
67-66-3	Chloroform	1	0.0045	U
74-87-3	Chloromethane	1	0.0045	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U
110-82-7	Cyclohexane	1	0.0045	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-27

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-02 File ID: V5439661.D

Sampled: 05/17/24 13:10 Prepared: 05/18/24 09:00 Analyzed: 05/18/24 16:16

Solids: 91.27 Preparation: EPA 5035A Initial/Final: 6.07 g / 5 ml

Batch: BE41258 Sequence: S4E2016 Calibration: SD40028 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0045	U
74-95-3	Dibromomethane	1	0.0045	U
75-71-8	Dichlorodifluoromethane	1	0.0045	U J
100-41-4	Ethyl Benzene	1	0.0045	U
87-68-3	Hexachlorobutadiene	1	0.0045	U
98-82-8	Isopropylbenzene	1	0.0045	U
79-20-9	Methyl acetate	1	0.0045	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U
108-87-2	Methylcyclohexane	1	0.0045	U
75-09-2	Methylene chloride	1	0.0090	U J
104-51-8	n-Butylbenzene	1	0.0045	U
103-65-1	n-Propylbenzene	1	0.0045	U
95-47-6	o-Xylene	1	0.0045	U
179601-23-1	p- & m- Xylenes	1	0.0090	U
99-87-6	p-Isopropyltoluene	1	0.0045	U
135-98-8	sec-Butylbenzene	1	0.0045	U
100-42-5	Styrene	1	0.0045	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U
98-06-6	tert-Butylbenzene	1	0.0045	U
127-18-4	Tetrachloroethylene	1	0.0043	J
108-88-3	Toluene	1	0.0045	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U
79-01-6	Trichloroethylene	1	0.0045	U
75-69-4	Trichlorofluoromethane	1	0.0045	U
75-01-4	Vinyl Chloride	1	0.0045	U J
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.3	101	77 - 125	
SURR: Toluene-d8	50.0	48.4	96.8	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.0	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	167274	6.029	194601	6.029	
ISTD: Chlorobenzene-d5	582212	9.064	691988	9.064	
ISTD: 1,2-Dichlorobenzene-d4	221950	12.045	294983	12.048	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_051724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E1295-03	File ID:	V749410.D
Sampled:	05/17/24 13:10	Prepared:	05/22/24 08:00	Analyzed:	05/22/24 13:23
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41318	Sequence:	S4E2236	Calibration:	SE40031
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_051724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24E1295-03	File ID:	V749410.D
Sampled:	05/17/24 13:10	Prepared:	05/22/24 08:00	Analyzed:	05/22/24 13:23
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41318	Sequence:	S4E2236	Calibration:	SE40031
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	169711	7.134	181628	7.134	
ISTD: Chlorobenzene-d5	493203	10.516	548709	10.516	
ISTD: 1,2-Dichlorobenzene-d4	151999	13.601	193680	13.6	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID: E70354622.D

Sampled: 05/17/24 13:00 Prepared: 05/20/24 09:09 Analyzed: 05/21/24 11:40

Solids: 92.81 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BE41323 Sequence: S4E2234 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0872	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.174	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0872	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.174	U
95-95-4	2,4,5-Trichlorophenol	2	0.0872	U
88-06-2	2,4,6-Trichlorophenol	2	0.0872	U
120-83-2	2,4-Dichlorophenol	2	0.0872	U
105-67-9	2,4-Dimethylphenol	2	0.0872	U J
51-28-5	2,4-Dinitrophenol	2	0.174	U J
121-14-2	2,4-Dinitrotoluene	2	0.0872	U
606-20-2	2,6-Dinitrotoluene	2	0.0872	U
91-58-7	2-Chloronaphthalene	2	0.0872	U
95-57-8	2-Chlorophenol	2	0.0872	U
91-57-6	2-Methylnaphthalene	2	0.0872	U
95-48-7	2-Methylphenol	2	0.0872	U
88-74-4	2-Nitroaniline	2	0.174	U
88-75-5	2-Nitrophenol	2	0.0872	U
65794-96-9	3- & 4-Methylphenols	2	0.0872	U
91-94-1	3,3-Dichlorobenzidine	2	0.0872	U
99-09-2	3-Nitroaniline	2	0.174	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.174	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0872	U
59-50-7	4-Chloro-3-methylphenol	2	0.0872	U
106-47-8	4-Chloroaniline	2	0.0872	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0872	U
100-01-6	4-Nitroaniline	2	0.174	U
100-02-7	4-Nitrophenol	2	0.174	U
83-32-9	Acenaphthene	2	0.0872	U
208-96-8	Acenaphthylene	2	0.0872	U
98-86-2	Acetophenone	2	0.0872	U
62-53-3	Aniline	2	0.349	U
120-12-7	Anthracene	2	0.0872	U
1912-24-9	Atrazine	2	0.0872	U
100-52-7	Benzaldehyde	2	0.0872	U
92-87-5	Benzidine	2	0.349	U J
56-55-3	Benzo(a)anthracene	2	0.0872	U
50-32-8	Benzo(a)pyrene	2	0.0872	U
205-99-2	Benzo(b)fluoranthene	2	0.0872	U
191-24-2	Benzo(g,h,i)perylene	2	0.0872	U
207-08-9	Benzo(k)fluoranthene	2	0.0872	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID: E70354622.D

Sampled: 05/17/24 13:00 Prepared: 05/20/24 09:09 Analyzed: 05/21/24 11:40

Solids: 92.81 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BE41323 Sequence: S4E2234 Calibration: SE40018 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0872	U
100-51-6	Benzyl alcohol	2	0.0872	U
85-68-7	Benzyl butyl phthalate	2	0.0872	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0872	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0872	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0872	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0872	U
105-60-2	Caprolactam	2	0.174	U
86-74-8	Carbazole	2	0.0872	U
218-01-9	Chrysene	2	0.0872	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0872	U
132-64-9	Dibenzofuran	2	0.0872	U
84-66-2	Diethyl phthalate	2	0.0872	U
131-11-3	Dimethyl phthalate	2	0.0872	U
84-74-2	Di-n-butyl phthalate	2	0.0872	U
117-84-0	Di-n-octyl phthalate	2	0.0872	U
122-39-4	Diphenylamine	2	0.174	U
206-44-0	Fluoranthene	2	0.0739	JD
86-73-7	Fluorene	2	0.0872	U
118-74-1	Hexachlorobenzene	2	0.0872	U
87-68-3	Hexachlorobutadiene	2	0.0872	U
77-47-4	Hexachlorocyclopentadiene	2	0.0872	UJ
67-72-1	Hexachloroethane	2	0.0872	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0872	U
78-59-1	Isophorone	2	0.0872	U
91-20-3	Naphthalene	2	0.0872	U
98-95-3	Nitrobenzene	2	0.0872	U
62-75-9	N-Nitrosodimethylamine	2	0.0872	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0872	U
86-30-6	N-Nitrosodiphenylamine	2	0.0872	U
87-86-5	Pentachlorophenol	2	0.0872	U
85-01-8	Phenanthrene	2	0.0481	JD
108-95-2	Phenol	2	0.0872	U
129-00-0	Pyrene	2	0.0558	JD
110-86-1	Pyridine	2	0.349	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.74	1.46	83.9	20 - 108	
SURR: Phenol-d6	1.74	1.32	75.6	23 - 114	
SURR: Nitrobenzene-d5	0.872	0.753	86.4	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-06

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-01	File ID:	E70354622.D
Sampled:	05/17/24 13:00	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 11:40
Solids:	92.81	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.872	0.762	87.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.74	1.94	111	19 - 110	*
SURR: Terphenyl-d14	0.872	0.821	94.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	472849	4.6	529018	4.606	
ISTD: Naphthalene-d8	1936012	5.618	2285965	5.63	
ISTD: Acenaphthene-d10	1221447	7.207	1424941	7.218	
ISTD: Phenanthrene-d10	2053182	9.272	2411876	9.284	
ISTD: Chrysene-d12	1496054	13.839	1808302	13.851	
ISTD: Perylene-d12	1624405	16.8	1966111	16.812	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	E70354623.D
Sampled:	05/17/24 13:10	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:11
Solids:	91.27	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0899	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0899	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0899	U
88-06-2	2,4,6-Trichlorophenol	2	0.0899	U
120-83-2	2,4-Dichlorophenol	2	0.0899	U
105-67-9	2,4-Dimethylphenol	2	0.0899	U J
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0899	U
606-20-2	2,6-Dinitrotoluene	2	0.0899	U
91-58-7	2-Chloronaphthalene	2	0.0899	U
95-57-8	2-Chlorophenol	2	0.0899	U
91-57-6	2-Methylnaphthalene	2	0.0899	U
95-48-7	2-Methylphenol	2	0.0899	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0899	U
65794-96-9	3- & 4-Methylphenols	2	0.0899	U
91-94-1	3,3-Dichlorobenzidine	2	0.0899	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0899	U
59-50-7	4-Chloro-3-methylphenol	2	0.0899	U
106-47-8	4-Chloroaniline	2	0.0899	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0899	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0899	U
208-96-8	Acenaphthylene	2	0.0899	U
98-86-2	Acetophenone	2	0.0899	U
62-53-3	Aniline	2	0.360	U
120-12-7	Anthracene	2	0.0899	U
1912-24-9	Atrazine	2	0.0899	U
100-52-7	Benzaldehyde	2	0.0899	U
92-87-5	Benzidine	2	0.360	U J
56-55-3	Benzo(a)anthracene	2	0.0899	U
50-32-8	Benzo(a)pyrene	2	0.0899	U
205-99-2	Benzo(b)fluoranthene	2	0.0899	U
191-24-2	Benzo(g,h,i)perylene	2	0.0899	U
207-08-9	Benzo(k)fluoranthene	2	0.0899	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	E70354623.D
Sampled:	05/17/24 13:10	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:11
Solids:	91.27	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0899	U
100-51-6	Benzyl alcohol	2	0.0899	U
85-68-7	Benzyl butyl phthalate	2	0.0899	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0899	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0899	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0899	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0899	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0899	U
218-01-9	Chrysene	2	0.0899	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0899	U
132-64-9	Dibenzofuran	2	0.0899	U
84-66-2	Diethyl phthalate	2	0.0899	U
131-11-3	Dimethyl phthalate	2	0.0899	U
84-74-2	Di-n-butyl phthalate	2	0.0899	U
117-84-0	Di-n-octyl phthalate	2	0.0899	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0899	U
86-73-7	Fluorene	2	0.0899	U
118-74-1	Hexachlorobenzene	2	0.0899	U
87-68-3	Hexachlorobutadiene	2	0.0899	U
77-47-4	Hexachlorocyclopentadiene	2	0.0899	U J
67-72-1	Hexachloroethane	2	0.0899	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0899	U
78-59-1	Isophorone	2	0.0899	U
91-20-3	Naphthalene	2	0.0899	U
98-95-3	Nitrobenzene	2	0.0899	U
62-75-9	N-Nitrosodimethylamine	2	0.0899	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0899	U
86-30-6	N-Nitrosodiphenylamine	2	0.0899	U
87-86-5	Pentachlorophenol	2	0.0899	U
85-01-8	Phenanthrene	2	0.0899	U
108-95-2	Phenol	2	0.0899	U
129-00-0	Pyrene	2	0.0899	U
110-86-1	Pyridine	2	0.360	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.38	76.7	20 - 108	
SURR: Phenol-d6	1.80	1.27	70.9	23 - 114	
SURR: Nitrobenzene-d5	0.898	0.729	81.2	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	E70354623.D
Sampled:	05/17/24 13:10	Prepared:	05/20/24 09:09	Analyzed:	05/21/24 12:11
Solids:	91.27	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BE41323	Sequence:	S4E2234	Calibration:	SE40018
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.898	0.741	82.5	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.95	108	19 - 110	
SURR: Terphenyl-d14	0.898	0.846	94.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	483605	4.6	529018	4.606	
ISTD: Naphthalene-d8	2019915	5.618	2285965	5.63	
ISTD: Acenaphthene-d10	1274221	7.201	1424941	7.218	
ISTD: Phenanthrene-d10	2181565	9.266	2411876	9.284	
ISTD: Chrysene-d12	1575664	13.827	1808302	13.851	
ISTD: Perylene-d12	1677721	16.789	1966111	16.812	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID: P8-4000199.D

Sampled: 05/17/24 13:00 Prepared: 05/18/24 07:05 Analyzed: 05/20/24 23:25

Solids: 92.81 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41247 Sequence: S4E2137 Calibration: SE40027 Instrument: Pest#8

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00176	U
72-55-9	4,4'-DDE	5	0.00176	U
50-29-3	4,4'-DDT	5	0.00176	U
309-00-2	Aldrin	5	0.00176	U
319-84-6	alpha-BHC	5	0.00176	U
5103-71-9	alpha-Chlordane	5	0.00176	U
319-85-7	beta-BHC	5	0.00176	U
319-86-8	delta-BHC	5	0.00176	U
60-57-1	Dieldrin	5	0.00176	U
959-98-8	Endosulfan I	5	0.00176	U
33213-65-9	Endosulfan II	5	0.00176	U
1031-07-8	Endosulfan sulfate	5	0.00176	U
72-20-8	Endrin	5	0.00176	U
7421-93-4	Endrin aldehyde	5	0.00176	U
53494-70-5	Endrin ketone	5	0.00176	U
58-89-9	gamma-BHC (Lindane)	5	0.00176	U
5566-34-7	gamma-Chlordane	5	0.00176	U
76-44-8	Heptachlor	5	0.00176	U
1024-57-3	Heptachlor epoxide	5	0.00176	U
72-43-5	Methoxychlor	5	0.00176	U
8001-35-2	Toxaphene	5	0.176	U
57-74-9	Chlordane, total	5	0.0352	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0711	0.0301	42.3	30 - 150	
Tetrachloro-m-xylene	0.0711	0.0400	56.3	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-27

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-02 File ID: P8-4000200.D

Sampled: 05/17/24 13:10 Prepared: 05/18/24 07:05 Analyzed: 05/20/24 23:35

Solids: 91.27 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41247 Sequence: S4E2137 Calibration: SE40027 Instrument: Pest#8

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0341	47.2	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0428	59.2	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-06

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-01	File ID:	P1146602.D
Sampled:	05/17/24 13:00	Prepared:	05/18/24 07:05	Analyzed:	05/24/24 00:56
Solids:	92.81	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41247	Sequence:	S4E2444	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0711	0.0537	75.5	30 - 120	
Decachlorobiphenyl	0.0711	0.0540	76.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	P1146605.D
Sampled:	05/17/24 13:10	Prepared:	05/18/24 07:05	Analyzed:	05/24/24 01:37
Solids:	91.27	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41247	Sequence:	S4E2444	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0546	75.5	30 - 120	
Decachlorobiphenyl	0.0723	0.0546	75.5	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID: QBICP2-052224ARE_1-071

Sampled: 05/17/24 13:00 Prepared: 05/21/24 14:06 Analyzed: 05/22/24 11:06

Solids: 92.81 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41424 Sequence: S4E2219 Calibration: 05/22/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6090	1		EPA 6010D
7440-36-0	Antimony	2.24	1	U	EPA 6010D
7440-38-2	Arsenic	1.60	1		EPA 6010D
7440-39-3	Barium	41.3	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.269	1	U	EPA 6010D
7440-70-2	Calcium	1250	1		EPA 6010D
7440-47-3	Chromium	13.1	1		EPA 6010D
7440-48-4	Cobalt	3.90	1		EPA 6010D
7440-50-8	Copper	11.3	1		EPA 6010D
7439-89-6	Iron	9070	1		EPA 6010D
7439-92-1	Lead	12.5	1		EPA 6010D
7439-95-4	Magnesium	1410	1		EPA 6010D
7439-96-5	Manganese	230	1		EPA 6010D
7440-02-0	Nickel	8.45	1		EPA 6010D
7440-09-7	Potassium	835	1		EPA 6010D
7782-49-2	Selenium	2.24	1	U	EPA 6010D
7440-22-4	Silver	0.453	1	U	EPA 6010D
7440-23-5	Sodium	77.3	1		EPA 6010D
7440-28-0	Thallium	2.24	1	U	EPA 6010D
7440-62-2	Vanadium	19.4	1		EPA 6010D
7440-66-6	Zinc	24.9	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-27

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-02 File ID: QBICP2-052224ARE_1-072

Sampled: 05/17/24 13:10 Prepared: 05/21/24 14:06 Analyzed: 05/22/24 11:08

Solids: 91.27 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE41424 Sequence: S4E2219 Calibration: 05/22/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6360	1		EPA 6010D
7440-36-0	Antimony	2.28	1	U	EPA 6010D
7440-38-2	Arsenic	1.37	1	U	EPA 6010D
7440-39-3	Barium	40.9	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.274	1	U	EPA 6010D
7440-70-2	Calcium	2490	1		EPA 6010D
7440-47-3	Chromium	14.0	1		EPA 6010D
7440-48-4	Cobalt	4.43	1		EPA 6010D
7440-50-8	Copper	11.8	1		EPA 6010D
7439-89-6	Iron	9530	1		EPA 6010D
7439-92-1	Lead	5.42	1		EPA 6010D
7439-95-4	Magnesium	1850	1		EPA 6010D
7439-96-5	Manganese	283	1		EPA 6010D
7440-02-0	Nickel	9.66	1		EPA 6010D
7440-09-7	Potassium	937	1		EPA 6010D
7782-49-2	Selenium	2.28	1	U	EPA 6010D
7440-22-4	Silver	0.460	1	U	EPA 6010D
7440-23-5	Sodium	90.5	1		EPA 6010D
7440-28-0	Thallium	2.28	1	U	EPA 6010D
7440-62-2	Vanadium	16.8	1		EPA 6010D
7440-66-6	Zinc	20.0	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-06

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-01	File ID:	
Sampled:	05/17/24 13:00	Prepared:	05/21/24 09:16	Analyzed:	05/22/24 14:20
Solids:	92.81	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41401	Sequence:	S4E2228	Calibration:	05/22/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0323	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-27

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1295
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24E1295-02	File ID:	
Sampled:	05/17/24 13:10	Prepared:	05/21/24 09:16	Analyzed:	05/22/24 14:20
Solids:	91.27	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41401	Sequence:	S4E2228	Calibration:	05/22/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0329	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-06

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-01 File ID:

Sampled: 05/17/24 13:00 Prepared: 05/19/24 13:46 Analyzed: 05/20/24 08:14

Solids: 92.81 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41272 Sequence: Calibration: 05/20/24 0 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-27

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1295

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24E1295-02 File ID:

Sampled: 05/17/24 13:10 Prepared: 05/19/24 13:46 Analyzed: 05/20/24 08:14

Solids: 91.27 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41272 Sequence: Calibration: 05/20/24 0 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.3	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/11/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24E1295

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 17, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1295-01	EP-06	Soil	05/17/2024	05/17/2024
24E1295-02	EP-27	Soil	05/17/2024	05/17/2024
24E1295-03	TB_051724	Water	05/17/2024	05/17/2024

Work Order Narrative

York Analytical Work Order No.: 24E1295

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/17/2024 3:38 PM

3 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.8}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-06	24E1295-01	Soil	05/17/2024 1:00 PM	05/17/2024 3:38 PM
EP-27	24E1295-02	Soil	05/17/2024 1:10 PM	05/17/2024 3:38 PM
TB_051724	24E1295-03	Water	05/17/2024 1:10 PM	05/17/2024 3:38 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

YORK Project No. 24E1295

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: YU & Associates	Company:	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:	Address:
Phone: 201-873-7543	Phone.:	Phone.:
Contact: Chengyu Hang	Contact:	Contact:
E-mail: Chang@yu-associates.com	E-mail:	E-mail:

YOUR Project Number: 22254

YOUR Project Name: 43-25 52nd St

YOUR PO#: 22254

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day ✓
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Matthew O'Rourke

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EP-06	S	5/17/24, 13:00	TCL VOCs, SVOCs, TAL Metals, Pest/PCBs	8 oz, Vials	1, 4
EP-27	S	5/17/24, 13:10	↓ ↓ ↓	↓ ↓	↓
TB-051724	W		TCL VOCs	Vials	2

Comments: Rush turn-around time for VOCs, Metals only

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

Preservation: (check all that apply)

HCl ✓ MeOH ✓ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke	5/17/24 15:30	Ramon Duran	5/17/24 1530	Ramon Duran	5/17/24 2030
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	5/17/24 20:30 / 3.8°C Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL SAMPLES

Volatiles

SDG No. 24E1650

Sampling Date: May 23, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1650
Date: September 3, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA
PE-EP-40-B-4	24E1650-01	Soil	X
PE-EP-40-N-4	24E1650-02	Soil	X

The sample delivery group (SDG) contained results for two soil samples. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete. Per client request, the sample IDs were revised to "PE-EP-40-B-4" and "PE-EP-40-N-4".
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1650-01	Methyl tert-butyl ether (MTBE) p-Isopropyltoluene	UJ
24E1650-02	Methyl tert-butyl ether (MTBE) Naphthalene tert-Butylbenzene	UJ

7. Laboratory Control Sample (LCS): The percent recovery (%R) in one LCS was below QC limits for p-Isopropyltoluene which resulted in the following qualification;

Sample ID	Compound	Qualifier
24E1650-01	p-Isopropyltoluene	UJ

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Not applicable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.
15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-B-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1650
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1650-01	File ID:	V3182968.D
Sampled:	05/23/24 14:20	Prepared:	05/24/24 12:30	Analyzed:	05/25/24 06:17
Solids:	92.65	Preparation:	EPA 5035A	Initial/Final:	6.51 g / 5 ml
Batch:	BE41730	Sequence:	S4E2803	Calibration:	SE40006
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.0082	
108-67-8	1,3,5-Trimethylbenzene	1	0.0021	J
71-43-2	Benzene	1	0.0041	U
100-41-4	Ethyl Benzene	1	0.0041	U
98-82-8	Isopropylbenzene	1	0.0041	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0041	UJ
91-20-3	Naphthalene	1	0.016	
104-51-8	n-Butylbenzene	1	0.0041	U
103-65-1	n-Propylbenzene	1	0.0041	U
95-47-6	o-Xylene	1	0.0041	U
179601-23-1	p- & m- Xylenes	1	0.0083	U
99-87-6	p-Isopropyltoluene	1	0.0041	UJ
135-98-8	sec-Butylbenzene	1	0.0041	U
98-06-6	tert-Butylbenzene	1	0.0041	U
108-88-3	Toluene	1	0.0041	U
1330-20-7	Xylenes, Total	1	0.012	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	45.6	91.3	77 - 125	
SURR: Toluene-d8	50.0	52.5	105	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.2	100	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	205492	5.689	209367	5.689	
ISTD: Chlorobenzene-d5	740615	8.708	769181	8.708	
ISTD: 1,2-Dichlorobenzene-d4	289617	11.689	301931	11.689	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-N-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1650
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1650-02	File ID:	V3183025.D
Sampled:	05/23/24 14:25	Prepared:	05/28/24 09:00	Analyzed:	05/28/24 12:24
Solids:	91.91	Preparation:	EPA 5035A	Initial/Final:	6.28 g / 5 ml
Batch:	BE41776	Sequence:	S4E2926	Calibration:	SE40044
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.0043	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0043	U
71-43-2	Benzene	1	0.0043	U
100-41-4	Ethyl Benzene	1	0.0043	U
98-82-8	Isopropylbenzene	1	0.0043	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0043	U J
91-20-3	Naphthalene	1	0.0087	U J
104-51-8	n-Butylbenzene	1	0.0043	U
103-65-1	n-Propylbenzene	1	0.0043	U
95-47-6	o-Xylene	1	0.0043	U
179601-23-1	p- & m- Xylenes	1	0.0087	U
99-87-6	p-Isopropyltoluene	1	0.0043	U
135-98-8	sec-Butylbenzene	1	0.0043	U
98-06-6	tert-Butylbenzene	1	0.0043	U J
108-88-3	Toluene	1	0.0043	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.9	93.9	77 - 125	
SURR: Toluene-d8	50.0	52.5	105	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.3	101	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	197517	5.692	205198	5.689	
ISTD: Chlorobenzene-d5	721651	8.708	766391	8.708	
ISTD: 1,2-Dichlorobenzene-d4	274831	11.689	309692	11.689	

* Values outside of QC limits

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

PE-EP-40-B-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1650

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1650-01 File ID:

Sampled: 05/23/24 14:20 Prepared: 05/24/24 07:28 Analyzed: 05/24/24 11:40

Solids: 92.65 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41658 Sequence: Calibration: 05/24/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.6	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

PE-EP-40-N-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1650

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1650-02 File ID:

Sampled: 05/23/24 14:25 Prepared: 05/24/24 07:28 Analyzed: 05/24/24 11:40

Solids: 91.91 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41658 Sequence: Calibration: 05/24/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/18/2024
Client Project ID: 22254 43-25 52nd St.
York Project (SDG) No.: 24E1650

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 23, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd St.**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1650-01	PE-EP-40-B-4	Soil	05/23/2024	05/23/2024
24E1650-02	PE-EP-40-N-4	Soil	05/23/2024	05/23/2024

Work Order Narrative

York Analytical Work Order No.: 24E1650

Client : YU & Associates

Client Project ID : 22254 43-25 52nd St.

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/23/2024 9:40 PM

2 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{5.7}°C**

WorkOrder Comments

Per client request 5/24/24, the reporting list was changed to CP-51 Table 2+3 VOCs.

Sample IDs -01 and -02 were updated per client request on 7/16/24. ID changes will be reflected on the York QA Summary Report. Please note, in package forms where original sample IDs are listed, these refer to new sample IDs as follows:

Sample -01 was revised from PE-EP-40-B-2 to state PE-EP-40-B-4.
Sample -02 was revised from PE-EP-40-N-2 to state PE-EP-40-N-4.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
PE-EP-40-B-2	24E1650-01	Soil	05/23/2024 2:20 PM	05/23/2024 9:40 PM
PE-EP-40-N-2	24E1650-02	Soil	05/23/2024 2:25 PM	05/23/2024 9:40 PM

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	1,3,5-Trimethylbenzene	J
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	Methyl tert-butyl ether (MTBE)	QL-02
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	Methyl tert-butyl ether (MTBE)	CCVE
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	o-Xylene	QL-02
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	p-Isopropyltoluene	QL-02
PE-EP-40-B-2	EPA 8260C	24E1650-01	Soil	p-Isopropyltoluene	CCVE

Qualifier Definitions :

CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 24E1650

Page ____ of ____

Report To:	Invoice To:
Company: YU & Associates	Company: Same
Address: 611 River Drive, 3rd Fl Elmwood Park, NJ	Address: as
Phone: 201-873-7543	Phone:
Contact: Chengyu Hang	Contact:
E-mail: chang@yu-associates.com	E-mail: Left.

YOUR Project Name / Number: 43-25 52nd Street

PO Number:

Samples Collected From: NY X | NJ | CT | PA | Other: (please specify)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil
Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: Total	1,4-Dioxane (8270 SIM)	CP-51 TABLE 2&3 VOCs	Grab or Comp.
PE-EP-40-B-L	05/23	14:20	S										4	X	X	G
PE-EP-40-N-L	05/23	14:25	S										4	X	X	G

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day X
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day)
- PFAS Standard 7-10 Day

Report Type (circle)
- QA Report
- Summary (Results Only)
- NY ASP B Package
- NJ Reduced
- NJ DKQP
- NJ Full
- CT RCP

EDD Type (circle)
- EQuIS (standard)
- NYSDEC EQuIS
- NJDEP SRP Haz Site
- Standard Excel
- CMDP
- Other:

Regulatory Comparative
Compared to the following Regulation(s): (please fill in)

- Field Filtered
- Lab Filtered

Comments:

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Yuansheng Qu	05/22 - 15:56	Thomas Stebbins / York	5/23/24 1556	Thomas Stebbins / York	5/23/24
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Romer Nunan	5/23/24 1900	Romer Duran	5/23/24 2140		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					5/23/24 21:40 5.7°C

Degrees C

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DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL SAMPLE

Volatiles

SDG No. 24E1719

Sampling Date: May 24, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 22254 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1719
Date: September 4, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA
PE-EP-40-E-2	24E1719-01	Soil	X

The sample delivery group (SDG) contained results for one soil sample. The sample was analyzed using the following USEPA SW-846 Method: 8260D (VOA). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete. The sample ID was updated per client request to "PE-ED-40-E-2".
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA - The percent difference (%D) in the continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1719-01	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethyl benzene Isopropylbenzene Methyl tert-butyl ether (MTBE) Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene p- &m-Xylenes p-Isopropyltoluene sec-Butylbenzene tert-Butylbenzene Toluene	UJ

7. Laboratory Control Sample (LCS): The percent recovery (%R) was below QC limits for p-Isopropyltoluene which resulted in the following qualification;

Sample ID	Compound	Qualifier
24E1719-01	p-Isopropyltoluene	UJ

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Not applicable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.
15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-ED-40-W-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1719
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1719-01	File ID:	V3183052.D
Sampled:	05/24/24 11:05	Prepared:	05/28/24 12:30	Analyzed:	05/29/24 00:13
Solids:	93.42	Preparation:	EPA 5035A	Initial/Final:	6.63 g / 5 ml
Batch:	BE41852	Sequence:	S4E2927	Calibration:	SE40044
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-63-6	1,2,4-Trimethylbenzene	1	0.0040	U J
108-67-8	1,3,5-Trimethylbenzene	1	0.0040	U J
71-43-2	Benzene	1	0.0040	U J
100-41-4	Ethyl Benzene	1	0.0040	U J
98-82-8	Isopropylbenzene	1	0.0040	U J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0040	U J
91-20-3	Naphthalene	1	0.0081	U J
104-51-8	n-Butylbenzene	1	0.0040	U J
103-65-1	n-Propylbenzene	1	0.0040	U J
95-47-6	o-Xylene	1	0.0040	U J
179601-23-1	p- & m- Xylenes	1	0.0081	U J
99-87-6	p-Isopropyltoluene	1	0.0040	U J
135-98-8	sec-Butylbenzene	1	0.0040	U J
98-06-6	tert-Butylbenzene	1	0.0040	U J
108-88-3	Toluene	1	0.0040	U J
1330-20-7	Xylenes, Total	1	0.012	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	45.6	91.1	77 - 125	
SURR: Toluene-d8	50.0	52.8	106	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.3	105	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	196862	5.689	200927	5.688	
ISTD: Chlorobenzene-d5	713617	8.708	743823	8.708	
ISTD: 1,2-Dichlorobenzene-d4	255991	11.689	293306	11.689	

* Values outside of QC limits

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

PE-ED-40-W-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1719

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1719-01 File ID:

Sampled: 05/24/24 11:05 Prepared: 05/29/24 07:34 Analyzed: 05/29/24 10:40

Solids: 93.42 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41871 Sequence: Calibration: 05/29/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.4	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/18/2024
Client Project ID: 22254 43-25 52nd St.
York Project (SDG) No.: 24E1719

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 24, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd St.**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1719-01	PE-EP-40-E-2	Soil	05/24/2024	05/24/2024

General Notes for York Project (SDG) No.: 24E1719

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher
Laboratory Manager

Date: 07/18/2024

Work Order Narrative

York Analytical Work Order No.: 24E1719

Client : YU & Associates

Client Project ID : 22254 43-25 52nd St.

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/24/2024 1:03 PM

1 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{5.7}°C**

WorkOrder Comments

Sample IDs -01 was updated per client request on 7/16/24. ID changes will be reflected on the York QA Summary Report. Please note, in package forms where original sample ID is listed, refer to new sample ID as follows:

Sample -01 ID was revised from PE-ED-40-W-2 to state PE-EP-40-E-2.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
PE-ED-40-W-2	24E1719-01	Soil	05/24/2024 11:05 AM	05/24/2024 1:03 PM

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
PE-ED-40-W-2	EPA 8260C	24E1719-01	Soil	Methyl tert-butyl ether (MTBE)	CCVE
PE-ED-40-W-2	EPA 8260C	24E1719-01	Soil	o-Xylene	QL-02
PE-ED-40-W-2	EPA 8260C	24E1719-01	Soil	p-Isopropyltoluene	QL-02
PE-ED-40-W-2	EPA 8260C	24E1719-01	Soil	p-Isopropyltoluene	CCVE

Qualifier Definitions :

CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24E1719

Page 1 of 1

Report To:
Company: YU & Associates
Address: 611 River Drive, 3rd Flr, Elmwood Park, NJ
Phone.: 201-813-7563
Contact: Chongyu Hong
E-mail: chong@yu-associates.com

Invoice To:
Company: Same
Address:
Phone.:
Contact:
E-mail:

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

YOUR Project Name / Number

PO Number
22256

Samples Collected From
NY X CT Other: (please specify)
NJ PA

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day X
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day)
- PFAS Standard 7-10 Day

Report Type (circle)
- QA Report
- Summary (Results Only)
- NY ASP B Package
- NJ Reduced
- NJ DKQP
- NJ Full
- CT RCP

EDD Type (circle)
- EQuIS (standard)
- NYSDEC EQuIS
- NJDEP SRP Haz Site
- Standard Excel
- CMDP
- Other:

Regulatory Comparative
Compared to the following Regulation(s): (please fill in)

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil
Other

Preservative (please list number of containers)

Analyses Requested

Samples Collected by: (print AND sign your name)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	624.1 (51, 283 VOCs)	Grab or Comp.
PE-EP-40-N-2	05/24	11:05	S										4	X	G/C

Field Filtered
Lab Filtered

Comments:

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Yunda-Guy	Date/Time: 05/24/24 - 12:35	1. Samples Received by / Company: [illegible]	Date/Time: 5/24/1235
2. Samples Received by / Company: V1fi	Date/Time: 5/24/24 1400 3.2	3. Samples Relinquished by / Company: V1fi	Date/Time: 5/24/24 1400
4. Samples Relinquished by / Company: Ramon Dana	Date/Time: 5/24/2015	4. Samples Received by / Company:	Date/Time:

2. Samples Relinquished by / Company: V1fi signed for Gilbert	Date/Time: 05/24/24 1400	3. Samples Received by / Company: Ramon Dana	Date/Time: 5/24/24 1700
Samples Received in LAB by: KDA	Date/Time: 5/24/24 20:00	Temperature: 5.7 Degrees C	

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24E1811

Sampling Date: May 28, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1811
Date: September 4, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-20	24E1811-01	Soil	X	X	X
EP-41	24E1811-02	Soil	X	X	X
EP-16	24E1811-03	Soil	X	X	X
TB-05282024	24E1811-04	Water	X		

The sample delivery group (SDG) contained results for three soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); and 7473B (Mercury - Soils). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1811-01 to 24E1811-03	1,2,4-Trichlorobenzene 1,2-Dichloroethane 2-Butanone Acrylonitrile Bromochloromethane Bromomethane Chloroethane Chloromethane Dichlorodifluoromethane Methyl acetate Trichlorofluoromethane Vinyl chloride	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1811-01, 24E1811-02	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	UJ
24E1811-03	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Aniline Atrazine Benzidine Benzoic acid Hexachlorocyclopentadiene	UJ

7. Laboratory Control Sample (LCS): VOA – The percent recovery (%R) in the LCS was below QC limits for several compounds which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24E1811-01 to 24E1811-03	Bromochloromethane Tetrachloroethylene	UJ

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** The results are acceptable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.

13. Interference Check: Metals - The percent recovery (%R) was above QC limits for Aluminum in the interference check sample, which resulted in the following qualification;

Sample ID	Compound	Qualifier
24E1811-01 to 24E1811-03	Aluminum	J+

14. Compound Identification/Quantitation: The results are acceptable

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-20

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-01	File ID:	V5439909.D
Sampled:	05/28/24 11:10	Prepared:	05/29/24 09:00	Analyzed:	05/29/24 23:45
Solids:	91.80	Preparation:	EPA 5035A	Initial/Final:	6.6 g / 5 ml
Batch:	BE41935	Sequence:	S4E3036	Calibration:	SE40045
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0041	U
71-55-6	1,1,1-Trichloroethane	1	0.0041	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0041	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0041	U
79-00-5	1,1,2-Trichloroethane	1	0.0041	U
75-34-3	1,1-Dichloroethane	1	0.0041	U
75-35-4	1,1-Dichloroethylene	1	0.0041	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0041	U
96-18-4	1,2,3-Trichloropropane	1	0.0041	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0041	U J
95-63-6	1,2,4-Trimethylbenzene	1	0.0041	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0041	U
106-93-4	1,2-Dibromoethane	1	0.0041	U
95-50-1	1,2-Dichlorobenzene	1	0.0041	U
107-06-2	1,2-Dichloroethane	1	0.0041	U J
78-87-5	1,2-Dichloropropane	1	0.0041	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0041	U
541-73-1	1,3-Dichlorobenzene	1	0.0041	U
106-46-7	1,4-Dichlorobenzene	1	0.0041	U
123-91-1	1,4-Dioxane	1	0.083	U
78-93-3	2-Butanone	1	0.0041	U J
591-78-6	2-Hexanone	1	0.0041	U
108-10-1	4-Methyl-2-pentanone	1	0.0041	U
67-64-1	Acetone	1	0.0083	U
107-02-8	Acrolein	1	0.0083	U
107-13-1	Acrylonitrile	1	0.0041	U J
71-43-2	Benzene	1	0.0041	U
74-97-5	Bromochloromethane	1	0.0041	U J
75-27-4	Bromodichloromethane	1	0.0041	U
75-25-2	Bromoform	1	0.0041	U
74-83-9	Bromomethane	1	0.0041	U J
75-15-0	Carbon disulfide	1	0.0041	U
56-23-5	Carbon tetrachloride	1	0.0041	U
108-90-7	Chlorobenzene	1	0.0041	U
75-00-3	Chloroethane	1	0.0041	U J
67-66-3	Chloroform	1	0.0041	U
74-87-3	Chloromethane	1	0.0041	U J
156-59-2	cis-1,2-Dichloroethylene	1	0.0041	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0041	U
110-82-7	Cyclohexane	1	0.0041	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID: V5439909.D

Sampled: 05/28/24 11:10 Prepared: 05/29/24 09:00 Analyzed: 05/29/24 23:45

Solids: 91.80 Preparation: EPA 5035A Initial/Final: 6.6 g / 5 ml

Batch: BE41935 Sequence: S4E3036 Calibration: SE40045 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0041	U
74-95-3	Dibromomethane	1	0.0041	U
75-71-8	Dichlorodifluoromethane	1	0.0041	U J
100-41-4	Ethyl Benzene	1	0.0041	U
87-68-3	Hexachlorobutadiene	1	0.0041	U
98-82-8	Isopropylbenzene	1	0.0041	U
79-20-9	Methyl acetate	1	0.0041	U J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0041	U
108-87-2	Methylcyclohexane	1	0.0041	U
75-09-2	Methylene chloride	1	0.0083	U
104-51-8	n-Butylbenzene	1	0.0041	U
103-65-1	n-Propylbenzene	1	0.0041	U
95-47-6	o-Xylene	1	0.0041	U
179601-23-1	p- & m- Xylenes	1	0.0083	U
99-87-6	p-Isopropyltoluene	1	0.0041	U
135-98-8	sec-Butylbenzene	1	0.0041	U
100-42-5	Styrene	1	0.0041	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0041	U
98-06-6	tert-Butylbenzene	1	0.0041	U
127-18-4	Tetrachloroethylene	1	0.0041	U J
108-88-3	Toluene	1	0.0041	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0041	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0041	U
79-01-6	Trichloroethylene	1	0.0041	U
75-69-4	Trichlorofluoromethane	1	0.0041	U J
75-01-4	Vinyl Chloride	1	0.0041	U J
1330-20-7	Xylenes, Total	1	0.012	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.3	103	77 - 125	
SURR: Toluene-d8	50.0	51.9	104	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	141878	6.009	123640	6.013	
ISTD: Chlorobenzene-d5	512513	9.045	436344	9.048	
ISTD: 1,2-Dichlorobenzene-d4	203643	12.025	173591	12.029	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	V5439910.D
Sampled:	05/28/24 11:15	Prepared:	05/29/24 09:00	Analyzed:	05/30/24 00:11
Solids:	92.20	Preparation:	EPA 5035A	Initial/Final:	7.87 g / 5 ml
Batch:	BE41935	Sequence:	S4E3036	Calibration:	SE40045
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0034	U
71-55-6	1,1,1-Trichloroethane	1	0.0034	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0034	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0034	U
79-00-5	1,1,2-Trichloroethane	1	0.0034	U
75-34-3	1,1-Dichloroethane	1	0.0034	U
75-35-4	1,1-Dichloroethylene	1	0.0034	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0034	U
96-18-4	1,2,3-Trichloropropane	1	0.0034	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0034	U J
95-63-6	1,2,4-Trimethylbenzene	1	0.0034	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0034	U
106-93-4	1,2-Dibromoethane	1	0.0034	U
95-50-1	1,2-Dichlorobenzene	1	0.0034	U
107-06-2	1,2-Dichloroethane	1	0.0034	U J
78-87-5	1,2-Dichloropropane	1	0.0034	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0034	U
541-73-1	1,3-Dichlorobenzene	1	0.0034	U
106-46-7	1,4-Dichlorobenzene	1	0.0034	U
123-91-1	1,4-Dioxane	1	0.069	U
78-93-3	2-Butanone	1	0.0034	U J
591-78-6	2-Hexanone	1	0.0034	U
108-10-1	4-Methyl-2-pentanone	1	0.0034	U
67-64-1	Acetone	1	0.0069	U
107-02-8	Acrolein	1	0.0069	U
107-13-1	Acrylonitrile	1	0.0034	U J
71-43-2	Benzene	1	0.0034	U
74-97-5	Bromochloromethane	1	0.0034	U J
75-27-4	Bromodichloromethane	1	0.0034	U
75-25-2	Bromoform	1	0.0034	U
74-83-9	Bromomethane	1	0.0034	U J
75-15-0	Carbon disulfide	1	0.0034	U
56-23-5	Carbon tetrachloride	1	0.0034	U
108-90-7	Chlorobenzene	1	0.0034	U
75-00-3	Chloroethane	1	0.0034	U J
67-66-3	Chloroform	1	0.0034	U
74-87-3	Chloromethane	1	0.0034	U J
156-59-2	cis-1,2-Dichloroethylene	1	0.0034	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0034	U
110-82-7	Cyclohexane	1	0.0034	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-41

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-02 File ID: V5439910.D

Sampled: 05/28/24 11:15 Prepared: 05/29/24 09:00 Analyzed: 05/30/24 00:11

Solids: 92.20 Preparation: EPA 5035A Initial/Final: 7.87 g / 5 ml

Batch: BE41935 Sequence: S4E3036 Calibration: SE40045 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0034	U
74-95-3	Dibromomethane	1	0.0034	U
75-71-8	Dichlorodifluoromethane	1	0.0034	U J
100-41-4	Ethyl Benzene	1	0.0034	U
87-68-3	Hexachlorobutadiene	1	0.0034	U
98-82-8	Isopropylbenzene	1	0.0034	U
79-20-9	Methyl acetate	1	0.0034	U J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0034	U
108-87-2	Methylcyclohexane	1	0.0034	U
75-09-2	Methylene chloride	1	0.0069	U
104-51-8	n-Butylbenzene	1	0.0034	U
103-65-1	n-Propylbenzene	1	0.0034	U
95-47-6	o-Xylene	1	0.0034	U
179601-23-1	p- & m- Xylenes	1	0.0069	U
99-87-6	p-Isopropyltoluene	1	0.0034	U
135-98-8	sec-Butylbenzene	1	0.0034	U
100-42-5	Styrene	1	0.0034	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0034	U
98-06-6	tert-Butylbenzene	1	0.0034	U
127-18-4	Tetrachloroethylene	1	0.0034	U J
108-88-3	Toluene	1	0.0034	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0034	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0034	U
79-01-6	Trichloroethylene	1	0.0034	U
75-69-4	Trichlorofluoromethane	1	0.0034	U J
75-01-4	Vinyl Chloride	1	0.0034	U J
1330-20-7	Xylenes, Total	1	0.010	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.5	103	77 - 125	
SURR: Toluene-d8	50.0	52.4	105	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.5	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	144130	6.009	123640	6.013	
ISTD: Chlorobenzene-d5	503987	9.045	436344	9.048	
ISTD: 1,2-Dichlorobenzene-d4	202028	12.028	173591	12.029	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-16

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-03	File ID:	V5439911.D
Sampled:	05/28/24 11:25	Prepared:	05/29/24 09:00	Analyzed:	05/30/24 00:37
Solids:	90.23	Preparation:	EPA 5035A	Initial/Final:	5.75 g / 5 ml
Batch:	BE41935	Sequence:	S4E3036	Calibration:	SE40045
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0048	U
71-55-6	1,1,1-Trichloroethane	1	0.0048	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0048	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0048	U
79-00-5	1,1,2-Trichloroethane	1	0.0048	U
75-34-3	1,1-Dichloroethane	1	0.0048	U
75-35-4	1,1-Dichloroethylene	1	0.0048	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0048	U
96-18-4	1,2,3-Trichloropropane	1	0.0048	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0048	U J
95-63-6	1,2,4-Trimethylbenzene	1	0.0048	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0048	U
106-93-4	1,2-Dibromoethane	1	0.0048	U
95-50-1	1,2-Dichlorobenzene	1	0.0048	U
107-06-2	1,2-Dichloroethane	1	0.0048	U J
78-87-5	1,2-Dichloropropane	1	0.0048	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0048	U
541-73-1	1,3-Dichlorobenzene	1	0.0048	U
106-46-7	1,4-Dichlorobenzene	1	0.0048	U
123-91-1	1,4-Dioxane	1	0.096	U
78-93-3	2-Butanone	1	0.0048	U J
591-78-6	2-Hexanone	1	0.0048	U
108-10-1	4-Methyl-2-pentanone	1	0.0048	U
67-64-1	Acetone	1	0.0096	U
107-02-8	Acrolein	1	0.0096	U
107-13-1	Acrylonitrile	1	0.0048	U J
71-43-2	Benzene	1	0.0048	U
74-97-5	Bromochloromethane	1	0.0048	U J
75-27-4	Bromodichloromethane	1	0.0048	U
75-25-2	Bromoform	1	0.0048	U
74-83-9	Bromomethane	1	0.0048	U J
75-15-0	Carbon disulfide	1	0.0048	U
56-23-5	Carbon tetrachloride	1	0.0048	U
108-90-7	Chlorobenzene	1	0.0048	U
75-00-3	Chloroethane	1	0.0048	U J
67-66-3	Chloroform	1	0.0048	U
74-87-3	Chloromethane	1	0.0048	U J
156-59-2	cis-1,2-Dichloroethylene	1	0.0048	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0048	U
110-82-7	Cyclohexane	1	0.0048	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID: V5439911.D

Sampled: 05/28/24 11:25 Prepared: 05/29/24 09:00 Analyzed: 05/30/24 00:37

Solids: 90.23 Preparation: EPA 5035A Initial/Final: 5.75 g / 5 ml

Batch: BE41935 Sequence: S4E3036 Calibration: SE40045 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0048	U
74-95-3	Dibromomethane	1	0.0048	U
75-71-8	Dichlorodifluoromethane	1	0.0048	U J
100-41-4	Ethyl Benzene	1	0.0048	U
87-68-3	Hexachlorobutadiene	1	0.0048	U
98-82-8	Isopropylbenzene	1	0.0048	U
79-20-9	Methyl acetate	1	0.0048	U J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0048	U
108-87-2	Methylcyclohexane	1	0.0048	U
75-09-2	Methylene chloride	1	0.0096	U
104-51-8	n-Butylbenzene	1	0.0048	U
103-65-1	n-Propylbenzene	1	0.0048	U
95-47-6	o-Xylene	1	0.0048	U
179601-23-1	p- & m- Xylenes	1	0.0096	U
99-87-6	p-Isopropyltoluene	1	0.0048	U
135-98-8	sec-Butylbenzene	1	0.0048	U
100-42-5	Styrene	1	0.0048	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0048	U
98-06-6	tert-Butylbenzene	1	0.0048	U
127-18-4	Tetrachloroethylene	1	0.0048	U J
108-88-3	Toluene	1	0.0048	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0048	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0048	U
79-01-6	Trichloroethylene	1	0.0048	U
75-69-4	Trichlorofluoromethane	1	0.0048	U J
75-01-4	Vinyl Chloride	1	0.0048	U J
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.4	101	77 - 125	
SURR: Toluene-d8	50.0	52.5	105	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.6	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	139949	6.009	123640	6.013	
ISTD: Chlorobenzene-d5	486681	9.045	436344	9.048	
ISTD: 1,2-Dichlorobenzene-d4	194826	12.028	173591	12.029	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB-05282024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Water	Laboratory ID:	24E1811-04	File ID:	V855304.D
Sampled:	05/28/24 11:25	Prepared:	05/30/24 08:00	Analyzed:	05/30/24 14:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41989	Sequence:	S4E3028	Calibration:	SE40046
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB-05282024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Water	Laboratory ID:	24E1811-04	File ID:	V855304.D
Sampled:	05/28/24 11:25	Prepared:	05/30/24 08:00	Analyzed:	05/30/24 14:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BE41989	Sequence:	S4E3028	Calibration:	SE40046
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: Toluene-d8	10.0	9.88	98.8	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	500676	5.613	509420	5.613	
ISTD: Chlorobenzene-d5	2068743	8.637	2115422	8.637	
ISTD: 1,2-Dichlorobenzene-d4	867341	11.624	903106	11.618	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID: E20020410.D

Sampled: 05/28/24 11:10 Prepared: 05/29/24 13:11 Analyzed: 05/30/24 11:33

Solids: 91.80 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BE41912 Sequence: S4E3050 Calibration: SE40052 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0899	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0899	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0899	U
88-06-2	2,4,6-Trichlorophenol	2	0.0899	U
120-83-2	2,4-Dichlorophenol	2	0.0899	U
105-67-9	2,4-Dimethylphenol	2	0.0899	U
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0899	U
606-20-2	2,6-Dinitrotoluene	2	0.0899	U
91-58-7	2-Chloronaphthalene	2	0.0899	U
95-57-8	2-Chlorophenol	2	0.0899	U
91-57-6	2-Methylnaphthalene	2	0.0899	U
95-48-7	2-Methylphenol	2	0.0899	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0899	U
65794-96-9	3- & 4-Methylphenols	2	0.0899	U
91-94-1	3,3-Dichlorobenzidine	2	0.0899	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0899	U
59-50-7	4-Chloro-3-methylphenol	2	0.0899	U
106-47-8	4-Chloroaniline	2	0.0899	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0899	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0899	U
208-96-8	Acenaphthylene	2	0.0899	U
98-86-2	Acetophenone	2	0.0899	U
62-53-3	Aniline	2	0.360	U
120-12-7	Anthracene	2	0.0899	U
1912-24-9	Atrazine	2	0.0899	U
100-52-7	Benzaldehyde	2	0.0899	U
92-87-5	Benzidine	2	0.360	U
56-55-3	Benzo(a)anthracene	2	0.0899	U
50-32-8	Benzo(a)pyrene	2	0.0899	U
205-99-2	Benzo(b)fluoranthene	2	0.0899	U
191-24-2	Benzo(g,h,i)perylene	2	0.0899	U
207-08-9	Benzo(k)fluoranthene	2	0.0899	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-20

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-01	File ID:	E20020410.D
Sampled:	05/28/24 11:10	Prepared:	05/29/24 13:11	Analyzed:	05/30/24 11:33
Solids:	91.80	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BE41912	Sequence:	S4E3050	Calibration:	SE40052
Instrument:	BNA#2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0899	U
100-51-6	Benzyl alcohol	2	0.0899	U
85-68-7	Benzyl butyl phthalate	2	0.0899	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0899	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0899	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0899	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0899	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0899	U
218-01-9	Chrysene	2	0.0899	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0899	U
132-64-9	Dibenzofuran	2	0.0899	U
84-66-2	Diethyl phthalate	2	0.0899	U
131-11-3	Dimethyl phthalate	2	0.0899	U
84-74-2	Di-n-butyl phthalate	2	0.0899	U
117-84-0	Di-n-octyl phthalate	2	0.0899	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0899	U
86-73-7	Fluorene	2	0.0899	U
118-74-1	Hexachlorobenzene	2	0.0899	U
87-68-3	Hexachlorobutadiene	2	0.0899	U
77-47-4	Hexachlorocyclopentadiene	2	0.0899	U
67-72-1	Hexachloroethane	2	0.0899	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0899	U
78-59-1	Isophorone	2	0.0899	U
91-20-3	Naphthalene	2	0.0899	U
98-95-3	Nitrobenzene	2	0.0899	U
62-75-9	N-Nitrosodimethylamine	2	0.0899	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0899	U
86-30-6	N-Nitrosodiphenylamine	2	0.0899	U
87-86-5	Pentachlorophenol	2	0.0899	U
85-01-8	Phenanthrene	2	0.0899	U
108-95-2	Phenol	2	0.0899	U
129-00-0	Pyrene	2	0.0899	U
110-86-1	Pyridine	2	0.360	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.23	68.4	20 - 108	
SURR: Phenol-d6	1.80	1.14	63.5	23 - 114	
SURR: Nitrobenzene-d5	0.899	0.679	75.5	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-20

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-01	File ID:	E20020410.D
Sampled:	05/28/24 11:10	Prepared:	05/29/24 13:11	Analyzed:	05/30/24 11:33
Solids:	91.80	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BE41912	Sequence:	S4E3050	Calibration:	SE40052
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.899	0.658	73.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.16	64.4	19 - 110	
SURR: Terphenyl-d14	0.899	0.730	81.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	142055	5.555	193423	5.56	
ISTD: Naphthalene-d8	610315	6.499	903669	6.509	
ISTD: Acenaphthene-d10	390385	8.203	522845	8.212	
ISTD: Phenanthrene-d10	741891	10.371	972095	10.38	
ISTD: Chrysene-d12	665154	15.946	855552	15.96	
ISTD: Perylene-d12	740487	19.068	909460	19.087	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	E20020411.D
Sampled:	05/28/24 11:15	Prepared:	05/29/24 13:11	Analyzed:	05/30/24 12:03
Solids:	92.20	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BE41912	Sequence:	S4E3050	Calibration:	SE40052
Instrument:	BNA#2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0884	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.177	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0884	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.177	U
95-95-4	2,4,5-Trichlorophenol	2	0.0884	U
88-06-2	2,4,6-Trichlorophenol	2	0.0884	U
120-83-2	2,4-Dichlorophenol	2	0.0884	U
105-67-9	2,4-Dimethylphenol	2	0.0884	U
51-28-5	2,4-Dinitrophenol	2	0.177	U J
121-14-2	2,4-Dinitrotoluene	2	0.0884	U
606-20-2	2,6-Dinitrotoluene	2	0.0884	U
91-58-7	2-Chloronaphthalene	2	0.0884	U
95-57-8	2-Chlorophenol	2	0.0884	U
91-57-6	2-Methylnaphthalene	2	0.0884	U
95-48-7	2-Methylphenol	2	0.0884	U
88-74-4	2-Nitroaniline	2	0.177	U
88-75-5	2-Nitrophenol	2	0.0884	U
65794-96-9	3- & 4-Methylphenols	2	0.0884	U
91-94-1	3,3-Dichlorobenzidine	2	0.0884	U
99-09-2	3-Nitroaniline	2	0.177	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.177	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0884	U
59-50-7	4-Chloro-3-methylphenol	2	0.0884	U
106-47-8	4-Chloroaniline	2	0.0884	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0884	U
100-01-6	4-Nitroaniline	2	0.177	U
100-02-7	4-Nitrophenol	2	0.177	U
83-32-9	Acenaphthene	2	0.0884	U
208-96-8	Acenaphthylene	2	0.0884	U
98-86-2	Acetophenone	2	0.0884	U
62-53-3	Aniline	2	0.354	U
120-12-7	Anthracene	2	0.0884	U
1912-24-9	Atrazine	2	0.0884	U
100-52-7	Benzaldehyde	2	0.0884	U
92-87-5	Benzidine	2	0.354	U
56-55-3	Benzo(a)anthracene	2	0.0884	U
50-32-8	Benzo(a)pyrene	2	0.0884	U
205-99-2	Benzo(b)fluoranthene	2	0.0884	U
191-24-2	Benzo(g,h,i)perylene	2	0.0884	U
207-08-9	Benzo(k)fluoranthene	2	0.0884	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	E20020411.D
Sampled:	05/28/24 11:15	Prepared:	05/29/24 13:11	Analyzed:	05/30/24 12:03
Solids:	92.20	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BE41912	Sequence:	S4E3050	Calibration:	SE40052
Instrument:	BNA#2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0884	U
100-51-6	Benzyl alcohol	2	0.0884	U
85-68-7	Benzyl butyl phthalate	2	0.0884	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0884	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0884	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0884	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0884	U
105-60-2	Caprolactam	2	0.177	U
86-74-8	Carbazole	2	0.0884	U
218-01-9	Chrysene	2	0.0884	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0884	U
132-64-9	Dibenzofuran	2	0.0884	U
84-66-2	Diethyl phthalate	2	0.0884	U
131-11-3	Dimethyl phthalate	2	0.0884	U
84-74-2	Di-n-butyl phthalate	2	0.0884	U
117-84-0	Di-n-octyl phthalate	2	0.0884	U
122-39-4	Diphenylamine	2	0.177	U
206-44-0	Fluoranthene	2	0.0884	U
86-73-7	Fluorene	2	0.0884	U
118-74-1	Hexachlorobenzene	2	0.0884	U
87-68-3	Hexachlorobutadiene	2	0.0884	U
77-47-4	Hexachlorocyclopentadiene	2	0.0884	U
67-72-1	Hexachloroethane	2	0.0884	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0884	U
78-59-1	Isophorone	2	0.0884	U
91-20-3	Naphthalene	2	0.0884	U
98-95-3	Nitrobenzene	2	0.0884	U
62-75-9	N-Nitrosodimethylamine	2	0.0884	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0884	U
86-30-6	N-Nitrosodiphenylamine	2	0.0884	U
87-86-5	Pentachlorophenol	2	0.0884	U
85-01-8	Phenanthrene	2	0.0884	U
108-95-2	Phenol	2	0.0884	U
129-00-0	Pyrene	2	0.0884	U
110-86-1	Pyridine	2	0.354	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.77	1.25	70.8	20 - 108	
SURR: Phenol-d6	1.77	1.17	66.0	23 - 114	
SURR: Nitrobenzene-d5	0.883	0.694	78.6	22 - 108	

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	E20020411.D
Sampled:	05/28/24 11:15	Prepared:	05/29/24 13:11	Analyzed:	05/30/24 12:03
Solids:	92.20	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BE41912	Sequence:	S4E3050	Calibration:	SE40052
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.883	0.665	75.3	21 - 113	
SURR: 2,4,6-Tribromophenol	1.77	1.13	63.9	19 - 110	
SURR: Terphenyl-d14	0.883	0.730	82.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	148047	5.555	193423	5.56	
ISTD: Naphthalene-d8	626568	6.499	903669	6.509	
ISTD: Acenaphthene-d10	392700	8.202	522845	8.212	
ISTD: Phenanthrene-d10	760626	10.371	972095	10.38	
ISTD: Chrysene-d12	699716	15.946	855552	15.96	
ISTD: Perylene-d12	796205	19.073	909460	19.087	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-16

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-03	File ID:	E20020387.D
Sampled:	05/28/24 11:25	Prepared:	05/28/24 13:07	Analyzed:	05/29/24 17:58
Solids:	90.23	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BE41831	Sequence:	S4E2948	Calibration:	SE40052
Instrument:	BNA#2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0903	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0903	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0903	U
88-06-2	2,4,6-Trichlorophenol	2	0.0903	U
120-83-2	2,4-Dichlorophenol	2	0.0903	U
105-67-9	2,4-Dimethylphenol	2	0.0903	U
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0903	U
606-20-2	2,6-Dinitrotoluene	2	0.0903	U
91-58-7	2-Chloronaphthalene	2	0.0903	U
95-57-8	2-Chlorophenol	2	0.0903	U
91-57-6	2-Methylnaphthalene	2	0.0903	U
95-48-7	2-Methylphenol	2	0.0903	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0903	U
65794-96-9	3- & 4-Methylphenols	2	0.0903	U
91-94-1	3,3-Dichlorobenzidine	2	0.0903	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0903	U
59-50-7	4-Chloro-3-methylphenol	2	0.0903	U
106-47-8	4-Chloroaniline	2	0.0903	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0903	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0903	U
208-96-8	Acenaphthylene	2	0.0903	U
98-86-2	Acetophenone	2	0.0903	U
62-53-3	Aniline	2	0.362	U J
120-12-7	Anthracene	2	0.0903	U
1912-24-9	Atrazine	2	0.0903	U J
100-52-7	Benzaldehyde	2	0.0903	U
92-87-5	Benzidine	2	0.362	U J
56-55-3	Benzo(a)anthracene	2	0.0903	U
50-32-8	Benzo(a)pyrene	2	0.0903	U
205-99-2	Benzo(b)fluoranthene	2	0.0903	U
191-24-2	Benzo(g,h,i)perylene	2	0.0903	U
207-08-9	Benzo(k)fluoranthene	2	0.0903	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID: E20020387.D

Sampled: 05/28/24 11:25 Prepared: 05/28/24 13:07 Analyzed: 05/29/24 17:58

Solids: 90.23 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BE41831 Sequence: S4E2948 Calibration: SE40052 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0903	U J
100-51-6	Benzyl alcohol	2	0.0903	U
85-68-7	Benzyl butyl phthalate	2	0.0903	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0903	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0903	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0903	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0903	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0903	U
218-01-9	Chrysene	2	0.0903	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0903	U
132-64-9	Dibenzofuran	2	0.0903	U
84-66-2	Diethyl phthalate	2	0.0903	U
131-11-3	Dimethyl phthalate	2	0.0903	U
84-74-2	Di-n-butyl phthalate	2	0.0903	U
117-84-0	Di-n-octyl phthalate	2	0.0903	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0903	U
86-73-7	Fluorene	2	0.0903	U
118-74-1	Hexachlorobenzene	2	0.0903	U
87-68-3	Hexachlorobutadiene	2	0.0903	U
77-47-4	Hexachlorocyclopentadiene	2	0.0903	U J
67-72-1	Hexachloroethane	2	0.0903	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0903	U
78-59-1	Isophorone	2	0.0903	U
91-20-3	Naphthalene	2	0.0903	U
98-95-3	Nitrobenzene	2	0.0903	U
62-75-9	N-Nitrosodimethylamine	2	0.0903	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0903	U
86-30-6	N-Nitrosodiphenylamine	2	0.0903	U
87-86-5	Pentachlorophenol	2	0.0903	U
85-01-8	Phenanthrene	2	0.0903	U
108-95-2	Phenol	2	0.0903	U
129-00-0	Pyrene	2	0.0903	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	0.903	50.0	20 - 108	
SURR: Phenol-d6	1.81	0.853	47.2	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.477	52.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-16

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-03	File ID:	E20020387.D
Sampled:	05/28/24 11:25	Prepared:	05/28/24 13:07	Analyzed:	05/29/24 17:58
Solids:	90.23	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BE41831	Sequence:	S4E2948	Calibration:	SE40052
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.903	0.484	53.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	0.812	45.0	19 - 110	
SURR: Terphenyl-d14	0.903	0.518	57.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	144200	5.55	172157	5.555	
ISTD: Naphthalene-d8	638215	6.499	818229	6.499	
ISTD: Acenaphthene-d10	410234	8.198	476184	8.198	
ISTD: Phenanthrene-d10	819313	10.361	926081	10.366	
ISTD: Chrysene-d12	773254	15.932	860220	15.941	
ISTD: Perylene-d12	831205	19.054	872172	19.063	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID: P20520923.d

Sampled: 05/28/24 11:10 Prepared: 05/29/24 08:39 Analyzed: 05/29/24 21:42

Solids: 91.80 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BE41886 Sequence: S4E3041 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0719	0.0495	68.8	30 - 150	
Tetrachloro-m-xylene	0.0719	0.0534	74.3	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-41

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-02 File ID: P20520924.d

Sampled: 05/28/24 11:15 Prepared: 05/29/24 08:39 Analyzed: 05/29/24 21:58

Solids: 92.20 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BE41886 Sequence: S4E3041 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0353	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0714	0.0469	65.7	30 - 150	
Tetrachloro-m-xylene	0.0714	0.0540	75.7	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID: P20520925.d

Sampled: 05/28/24 11:25 Prepared: 05/29/24 08:39 Analyzed: 05/29/24 22:15

Solids: 90.23 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BE41886 Sequence: S4E3041 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00182	U
72-55-9	4,4'-DDE	5	0.00182	U
50-29-3	4,4'-DDT	5	0.00182	U
309-00-2	Aldrin	5	0.00182	U
319-84-6	alpha-BHC	5	0.00182	U
5103-71-9	alpha-Chlordane	5	0.00182	U
319-85-7	beta-BHC	5	0.00182	U
319-86-8	delta-BHC	5	0.00182	U
60-57-1	Dieldrin	5	0.00182	U
959-98-8	Endosulfan I	5	0.00182	U
33213-65-9	Endosulfan II	5	0.00182	U
1031-07-8	Endosulfan sulfate	5	0.00182	U
72-20-8	Endrin	5	0.00182	U
7421-93-4	Endrin aldehyde	5	0.00182	U
53494-70-5	Endrin ketone	5	0.00182	U
58-89-9	gamma-BHC (Lindane)	5	0.00182	U
5566-34-7	gamma-Chlordane	5	0.00182	U
76-44-8	Heptachlor	5	0.00182	U
1024-57-3	Heptachlor epoxide	5	0.00182	U
72-43-5	Methoxychlor	5	0.00182	U
8001-35-2	Toxaphene	5	0.182	U
57-74-9	Chlordane, total	5	0.0365	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0736	0.0496	67.3	30 - 150	
Tetrachloro-m-xylene	0.0736	0.0521	70.7	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-20

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-01	File ID:	P1147087.D
Sampled:	05/28/24 11:10	Prepared:	05/29/24 08:39	Analyzed:	05/30/24 17:32
Solids:	91.80	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BE41886	Sequence:	S4E3057	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0719	0.0550	76.5	30 - 120	
Decachlorobiphenyl	0.0719	0.0374	52.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	P1147088.D
Sampled:	05/28/24 11:15	Prepared:	05/29/24 08:39	Analyzed:	05/30/24 17:45
Solids:	92.20	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BE41886	Sequence:	S4E3057	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0714	0.0542	76.0	30 - 120	
Decachlorobiphenyl	0.0714	0.0360	50.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-16

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-03	File ID:	P1147089.D
Sampled:	05/28/24 11:25	Prepared:	05/29/24 08:39	Analyzed:	05/30/24 17:59
Solids:	90.23	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BE41886	Sequence:	S4E3057	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0184	U
11104-28-2	Aroclor 1221	1	0.0184	U
11141-16-5	Aroclor 1232	1	0.0184	U
53469-21-9	Aroclor 1242	1	0.0184	U
12672-29-6	Aroclor 1248	1	0.0184	U
11097-69-1	Aroclor 1254	1	0.0184	U
11096-82-5	Aroclor 1260	1	0.0184	U
1336-36-3	Total PCBs	1	0.0184	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0736	0.0549	74.5	30 - 120	
Decachlorobiphenyl	0.0736	0.0412	56.0	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID: QBICP2-053124CRE_1-054

Sampled: 05/28/24 11:10 Prepared: 05/30/24 13:45 Analyzed: 05/31/24 16:57

Solids: 91.80 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE42016 Sequence: S4E3137 Calibration: 05/31/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4310	1	J+	EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.69	1		EPA 6010D
7440-39-3	Barium	33.0	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	1050	1		EPA 6010D
7440-47-3	Chromium	9.57	1		EPA 6010D
7440-48-4	Cobalt	3.49	1		EPA 6010D
7440-50-8	Copper	11.9	1		EPA 6010D
7439-89-6	Iron	8030	1		EPA 6010D
7439-92-1	Lead	4.25	1		EPA 6010D
7439-95-4	Magnesium	1350	1		EPA 6010D
7439-96-5	Manganese	235	1		EPA 6010D
7440-02-0	Nickel	7.77	1		EPA 6010D
7440-09-7	Potassium	805	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.458	1	U	EPA 6010D
7440-23-5	Sodium	119	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	14.0	1		EPA 6010D
7440-66-6	Zinc	17.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-41

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-02 File ID: QBICP2-053124CRE_1-055

Sampled: 05/28/24 11:15 Prepared: 05/30/24 13:45 Analyzed: 05/31/24 17:00

Solids: 92.20 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE42016 Sequence: S4E3137 Calibration: 05/31/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4250	1	J+	EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.92	1		EPA 6010D
7440-39-3	Barium	27.3	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	931	1		EPA 6010D
7440-47-3	Chromium	10.5	1		EPA 6010D
7440-48-4	Cobalt	3.45	1		EPA 6010D
7440-50-8	Copper	10.1	1		EPA 6010D
7439-89-6	Iron	8610	1		EPA 6010D
7439-92-1	Lead	3.96	1		EPA 6010D
7439-95-4	Magnesium	1470	1		EPA 6010D
7439-96-5	Manganese	209	1		EPA 6010D
7440-02-0	Nickel	7.51	1		EPA 6010D
7440-09-7	Potassium	731	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.456	1	U	EPA 6010D
7440-23-5	Sodium	137	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	13.8	1		EPA 6010D
7440-66-6	Zinc	15.8	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID: QBICP2-053124CRE_1-056

Sampled: 05/28/24 11:25 Prepared: 05/30/24 13:45 Analyzed: 05/31/24 17:02

Solids: 90.23 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BE42016 Sequence: S4E3137 Calibration: 05/31/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4160	1	J+	EPA 6010D
7440-36-0	Antimony	2.31	1	U	EPA 6010D
7440-38-2	Arsenic	2.03	1		EPA 6010D
7440-39-3	Barium	35.8	1		EPA 6010D
7440-41-7	Beryllium	0.047	1	U	EPA 6010D
7440-43-9	Cadmium	0.277	1	U	EPA 6010D
7440-70-2	Calcium	1190	1		EPA 6010D
7440-47-3	Chromium	9.16	1		EPA 6010D
7440-48-4	Cobalt	4.36	1		EPA 6010D
7440-50-8	Copper	14.2	1		EPA 6010D
7439-89-6	Iron	8890	1		EPA 6010D
7439-92-1	Lead	4.28	1		EPA 6010D
7439-95-4	Magnesium	1710	1		EPA 6010D
7439-96-5	Manganese	260	1		EPA 6010D
7440-02-0	Nickel	8.82	1		EPA 6010D
7440-09-7	Potassium	769	1		EPA 6010D
7782-49-2	Selenium	2.31	1	U	EPA 6010D
7440-22-4	Silver	0.465	1	U	EPA 6010D
7440-23-5	Sodium	113	1		EPA 6010D
7440-28-0	Thallium	2.31	1	U	EPA 6010D
7440-62-2	Vanadium	14.3	1		EPA 6010D
7440-66-6	Zinc	17.2	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID:

Sampled: 05/28/24 11:10 Prepared: 05/30/24 09:09 Analyzed: 05/31/24 14:10

Solids: 91.80 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BE41986 Sequence: S4E3035 Calibration: 05/31/24 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0327	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-41

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1811
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1811-02	File ID:	
Sampled:	05/28/24 11:15	Prepared:	05/30/24 09:09	Analyzed:	05/31/24 14:10
Solids:	92.20	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BE41986	Sequence:	S4E3035	Calibration:	05/31/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID:

Sampled: 05/28/24 11:25 Prepared: 05/30/24 09:09 Analyzed: 05/31/24 14:10

Solids: 90.23 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BE41986 Sequence: S4E3035 Calibration: 05/31/24 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0332	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-20

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-01 File ID:

Sampled: 05/28/24 11:10 Prepared: 05/29/24 07:34 Analyzed: 05/29/24 10:40

Solids: 91.80 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41871 Sequence: Calibration: 05/29/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-41

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-02 File ID:

Sampled: 05/28/24 11:15 Prepared: 05/29/24 07:34 Analyzed: 05/29/24 10:40

Solids: 92.20 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41871 Sequence: Calibration: 05/29/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-16

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1811

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1811-03 File ID:

Sampled: 05/28/24 11:25 Prepared: 05/29/24 07:34 Analyzed: 05/29/24 10:40

Solids: 90.23 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE41871 Sequence: Calibration: 05/29/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.2	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 06/17/2024
Client Project ID: 22254 43-25 52nd St.
York Project (SDG) No.: 24E1811

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 28, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd St.**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1811-01	EP-20	Soil	05/28/2024	05/28/2024
24E1811-02	EP-41	Soil	05/28/2024	05/28/2024
24E1811-03	EP-16	Soil	05/28/2024	05/28/2024
24E1811-04	TB-05282024	Water	05/28/2024	05/28/2024

Work Order Narrative

York Analytical Work Order No.: 24E1811

Client : YU & Associates

Client Project ID : 22254 43-25 52nd St.

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/28/2024 7:40 PM

4 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{4.4}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-20	24E1811-01	Soil	05/28/2024 11:10 AM	05/28/2024 7:40 PM
EP-41	24E1811-02	Soil	05/28/2024 11:15 AM	05/28/2024 7:40 PM
EP-16	24E1811-03	Soil	05/28/2024 11:25 AM	05/28/2024 7:40 PM
TB-05282024	24E1811-04	Water	05/28/2024 11:25 AM	05/28/2024 7:40 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

YORK Project No. 24E1811

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: YV & Associates	Company: Same	Company: Same
Address: 611 River Drive, 3rd Fl. Elmwood Park, NJ	Address: as	Address: as
Phone.: 201-873-9543	Phone.:	Phone.:
Contact: Chengyu Hang	Contact:	Contact:
E-mail: chang@yv-associates.com	E-mail: Left.	E-mail: Left.

YOUR Project Number: 22254

YOUR Project Name:

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	X
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EP-20	S	05/28/24 - 11:10	VOC, SVOC, Metals, PCB, Pesticides	Jars & Vials	5
EP-41	S	05/28/24 - 11:15	VOC, SVOC, Metals, PCB, Pesticides	↓	5
EP-16	S	05/28/24 - 16:25	↓	↓	5
TB-05282024	W	05/28/24 - LAB		Vials	2

Comments: Only VOC & Metals are rush three days, the rest of analysis is standard - Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

1. Samples Relinquished by / Company: Yvonne Date/Time: 05/28/24 - 15:36	1. Samples Received by / Company: Ramon Date/Time: 5/28/24 1536	2. Samples Relinquished by / Company: Ramon Date/Time: 5/28/24 19:40	
2. Samples Received by / Company: Date/Time:	3. Samples Relinquished by / Company: Date/Time:	3. Samples Received by / Company: Date/Time:	
4. Samples Relinquished by / Company: Date/Time:	4. Samples Received by / Company: Date/Time:	Samples Received in LAB by: LAB Date/Time: 5/28/24 19:40	Temperature: 4.4 Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL SAMPLES

Volatiles

SDG No. 24E1966

Sampling Date: May 30, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Flood
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24E1966
Date: September 4, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA
PE-EP-40-W-4	24E1966-01	Soil	X
PE-EP-40-S-4	24E1966-02	Soil	X

The sample delivery group (SDG) contained results for two soil samples. The samples were analyzed using the following USEPA SW-846 Method: 8260D (VOA). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete. The sample IDs were revised to "PE-EP-40-W-4" and "PE-EP-40-S-4" per the client's request.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA - The percent difference (%D) in the continuing calibration (CCAL) was above QC limits for Methylene chloride and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24E1966-01, 24E1966-02	Methylene chloride	UJ

7. Laboratory Control Sample (LCS): The results were acceptable.

8. Surrogates: The results were acceptable.

9. Internal Standards: There were no deficiencies.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Not applicable.

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.

12. Field Duplicate: Not applicable.

13. Compound Identification/Quantitation: The results are acceptable

14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.

15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-W

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1966
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1966-01	File ID:	V3183122.D
Sampled:	05/30/24 11:05	Prepared:	05/31/24 09:00	Analyzed:	05/31/24 12:11
Solids:	91.78	Preparation:	EPA 5035A	Initial/Final:	6.35 g / 5 ml
Batch:	BE42077	Sequence:	S4E3125	Calibration:	SE40054
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0043	U
71-55-6	1,1,1-Trichloroethane	1	0.0043	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0043	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0043	U
79-00-5	1,1,2-Trichloroethane	1	0.0043	U
75-34-3	1,1-Dichloroethane	1	0.0043	U
75-35-4	1,1-Dichloroethylene	1	0.0043	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0043	U
96-18-4	1,2,3-Trichloropropane	1	0.0043	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0043	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0043	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0043	U
106-93-4	1,2-Dibromoethane	1	0.0043	U
95-50-1	1,2-Dichlorobenzene	1	0.0043	U
107-06-2	1,2-Dichloroethane	1	0.0043	U
78-87-5	1,2-Dichloropropane	1	0.0043	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0043	U
541-73-1	1,3-Dichlorobenzene	1	0.0043	U
106-46-7	1,4-Dichlorobenzene	1	0.0043	U
123-91-1	1,4-Dioxane	1	0.086	U
78-93-3	2-Butanone	1	0.0043	U
591-78-6	2-Hexanone	1	0.0043	U
108-10-1	4-Methyl-2-pentanone	1	0.0043	U
67-64-1	Acetone	1	0.0086	U
107-02-8	Acrolein	1	0.0086	U
107-13-1	Acrylonitrile	1	0.0043	U
71-43-2	Benzene	1	0.0043	U
74-97-5	Bromochloromethane	1	0.0043	U
75-27-4	Bromodichloromethane	1	0.0043	U
75-25-2	Bromoform	1	0.0043	U
74-83-9	Bromomethane	1	0.0043	U
75-15-0	Carbon disulfide	1	0.0043	U
56-23-5	Carbon tetrachloride	1	0.0043	U
108-90-7	Chlorobenzene	1	0.0043	U
75-00-3	Chloroethane	1	0.0043	U
67-66-3	Chloroform	1	0.0043	U
74-87-3	Chloromethane	1	0.0043	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0043	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0043	U
110-82-7	Cyclohexane	1	0.0043	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-W

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1966
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1966-01	File ID:	V3183122.D
Sampled:	05/30/24 11:05	Prepared:	05/31/24 09:00	Analyzed:	05/31/24 12:11
Solids:	91.78	Preparation:	EPA 5035A	Initial/Final:	6.35 g / 5 ml
Batch:	BE42077	Sequence:	S4E3125	Calibration:	SE40054
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0043	U
74-95-3	Dibromomethane	1	0.0043	U
75-71-8	Dichlorodifluoromethane	1	0.0043	U
100-41-4	Ethyl Benzene	1	0.0043	U
87-68-3	Hexachlorobutadiene	1	0.0043	U
98-82-8	Isopropylbenzene	1	0.0043	U
79-20-9	Methyl acetate	1	0.0043	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0043	U
108-87-2	Methylcyclohexane	1	0.0043	U
75-09-2	Methylene chloride	1	0.0086	U J
104-51-8	n-Butylbenzene	1	0.0043	U
103-65-1	n-Propylbenzene	1	0.0043	U
95-47-6	o-Xylene	1	0.0043	U
179601-23-1	p- & m- Xylenes	1	0.0086	U
99-87-6	p-Isopropyltoluene	1	0.0043	U
135-98-8	sec-Butylbenzene	1	0.0043	U
100-42-5	Styrene	1	0.0043	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0043	U
98-06-6	tert-Butylbenzene	1	0.0043	U
127-18-4	Tetrachloroethylene	1	0.0043	U
108-88-3	Toluene	1	0.0043	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0043	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0043	U
79-01-6	Trichloroethylene	1	0.0043	U
75-69-4	Trichlorofluoromethane	1	0.0043	U
75-01-4	Vinyl Chloride	1	0.0043	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.1	94.3	77 - 125	
SURR: Toluene-d8	50.0	47.2	94.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	221112	5.666	169655	5.666	
ISTD: Chlorobenzene-d5	1017150	8.686	755439	8.682	
ISTD: 1,2-Dichlorobenzene-d4	405106	11.664	322895	11.663	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-S

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1966
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1966-02	File ID:	V3183123.D
Sampled:	05/30/24 11:10	Prepared:	05/31/24 09:00	Analyzed:	05/31/24 12:38
Solids:	90.29	Preparation:	EPA 5035A	Initial/Final:	5.83 g / 5 ml
Batch:	BE42077	Sequence:	S4E3125	Calibration:	SE40054
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.095	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.014	
107-02-8	Acrolein	1	0.0095	U
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

PE-EP-40-S

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24E1966
Client:	YU & Associates			Project:	22254 43-25 52nd St.
Matrix:	Soil	Laboratory ID:	24E1966-02	File ID:	V3183123.D
Sampled:	05/30/24 11:10	Prepared:	05/31/24 09:00	Analyzed:	05/31/24 12:38
Solids:	90.29	Preparation:	EPA 5035A	Initial/Final:	5.83 g / 5 ml
Batch:	BE42077	Sequence:	S4E3125	Calibration:	SE40054
Instrument:	VOA No. 3				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0053	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0095	U J
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0095	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.0	95.9	77 - 125	
SURR: Toluene-d8	50.0	49.5	99.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.7	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	216564	5.666	169655	5.666	
ISTD: Chlorobenzene-d5	954402	8.686	755439	8.682	
ISTD: 1,2-Dichlorobenzene-d4	391045	11.664	322895	11.663	

* Values outside of QC limits

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

PE-EP-40-W

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1966

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1966-01 File ID:

Sampled: 05/30/24 11:05 Prepared: 05/31/24 07:40 Analyzed: 05/31/24 11:19

Solids: 91.78 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE42055 Sequence: Calibration: 05/31/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

PE-EP-40-S

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24E1966

Client: YU & Associates Project: 22254 43-25 52nd St.

Matrix: Soil Laboratory ID: 24E1966-02 File ID:

Sampled: 05/30/24 11:10 Prepared: 05/31/24 07:40 Analyzed: 05/31/24 11:19

Solids: 90.29 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BE42055 Sequence: Calibration: 05/31/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.3	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/18/2024
Client Project ID: 22254 43-25 52nd St.
York Project (SDG) No.: 24E1966

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 30, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd St.**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1966-01	PE-EP-40-W-4	Soil	05/30/2024	05/30/2024
24E1966-02	PE-EP-40-S-4	Soil	05/30/2024	05/30/2024

Work Order Narrative

York Analytical Work Order No.: 24E1966

Client : YU & Associates

Client Project ID : 22254 43-25 52nd St.

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 05/30/2024 8:05 PM

2 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{4.3}°C**

WorkOrder Comments

Sample IDs -01 and -02 were updated per client request on 7/16/24. ID changes will be reflected on the York QA Summary Report. Please note, in this narrative and package forms where original sample IDs are listed, refer to new sample IDs as follows:

Sample -01 was revised from PE -EP-40-W to state PE-EP-40-W-4.
Sample -02 was revised from PE-EP-40-S to state PE-EP-40-S-4.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
PE-EP-40-W	24E1966-01	Soil	05/30/2024 11:05 AM	05/30/2024 8:05 PM
PE-EP-40-S	24E1966-02	Soil	05/30/2024 11:10 AM	05/30/2024 8:05 PM

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
PE-EP-40-W	EPA 8260C	24E1966-01	Soil	Methylene chloride	CCVE
PE-EP-40-W	EPA 8260C	24E1966-01	Soil	Methylene chloride	CAL-E
PE-EP-40-S	EPA 8260C	24E1966-02	Soil	Methylene chloride	CCVE
PE-EP-40-S	EPA 8260C	24E1966-02	Soil	Methylene chloride	CAL-E
	EPA 8260C	BE42077-BLK1	Soil	Methylene chloride	J

Qualifier Definitions :

CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

YORK Project No. 24E1966

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Yu & Associates	Company:	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:	Address:
Phone.: 201-873-7543	Phone.:	Phone.:
Contact: Chengyu Hang	Contact:	Contact:
E-mail: Chang@yu-associates.com	E-mail:	E-mail:

YOUR Project Number: 22254

YOUR Project Name: 43-25 52nd St

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day ✓
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Matthew O'Rourke

Matthew O'Rourke

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- NY ASP B Package
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
PE-EP-40-W PE-EP-40-W-4	S	5/30/24 11:05	TCL VOCs ~~TCL SVOCs, Pest/~~	Vials	4
PE-EP-40-S PE-EP-40-S-4	S	5/30/24 11:10	↓ ↓ ↓		

Comments:

Preservation: (check all that apply)

HCl ____ MeOH ✓ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

- Field Filtered
- Lab to Filter

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

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke YU	5/30/24 13:33		5/30/24 1334		5/30/24 1334
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
YHG	5/30/24 1510 3.1	YHG	5/30/24 1710		5/30/24 1710
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
Roman Duran	5/30/24 20:05				5/30/24 20:05 4.3 Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24F0520

Sampling Date: June 7, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24F0520
Date: September 5, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-12	24F0520-01	Soil	X	X	X
EP-13	24F0520-02	Soil	X	X	X
EP-62	24F0520-03	Soil	X	X	X
EP-33	24F0520-04	Soil	X	X	X
EP-34	24F0520-05	Soil	X	X	X
TB-060724	24F0520-06	Water	X		
EB-060724	24F0520-07	Water	X	X	X

The sample delivery group (SDG) contained results for five soil samples, one trip blank and one equipment blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8270E SIM (SVOA – Equipment Blank only); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 6020B (Metals – Equipment Blank); 7473B (Mercury - Soils); 7470A (Mercury – Equipment Blank). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.

5. Blanks Quality Control: VOA - The following was qualified non-detects due to trip blank contamination;

Sample ID	Compound	Qualifier
24F0520-03	Acetone	U

6. Calibration Quality Control: VOA – The percent difference (%D) in one initial calibration verification (ICV) was below QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0520-01, 24F0520-02, 24F0520-04, 24F0520-05	Acetone Acrolein	UJ
24F0520-03	Acetone	J
	Acrolein	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0520-01 to 24F0520-05	Dichlorodifluoromethane	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0520-01 to 24F0520-05	1,2-Diphenylhydrazine 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Nitrophenol 4,6-Dinitro-2-methylphenol Benzoic acid Bis(2-chloroisopropyl)ether Hexachlorocyclopentadiene Pentachlorophenol	UJ

7. Laboratory Control Sample (LCS): VOA – The percent recovery (%R) for one LCS was below QC limits for Tetrachloroethylene and resulted in the following qualification;

Sample ID	Compound	Qualifier
24F0520-01 to 24F0520-05	Tetrachloroethylene	UJ

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Not applicable.
11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.
15. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	V11C017795.D
Sampled:	06/07/24 12:15	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 22:27
Solids:	91.85	Preparation:	EPA 5035A	Initial/Final:	5.75 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.095	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.0095	U J
107-02-8	Acrolein	1	0.0095	U J
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	V11C017795.D
Sampled:	06/07/24 12:15	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 22:27
Solids:	91.85	Preparation:	EPA 5035A	Initial/Final:	5.75 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U J
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0095	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0095	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U J
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.8	99.5	77 - 125	
SURR: Toluene-d8	50.0	49.3	98.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.8	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	420692	6.057	463498	6.054	
ISTD: Chlorobenzene-d5	1646551	9.103	1802002	9.101	
ISTD: 1,2-Dichlorobenzene-d4	702292	12.101	860547	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	V11C017796.D
Sampled:	06/07/24 12:30	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 22:53
Solids:	92.08	Preparation:	EPA 5035A	Initial/Final:	4.17 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0065	U
71-55-6	1,1,1-Trichloroethane	1	0.0065	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0065	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0065	U
79-00-5	1,1,2-Trichloroethane	1	0.0065	U
75-34-3	1,1-Dichloroethane	1	0.0065	U
75-35-4	1,1-Dichloroethylene	1	0.0065	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0065	U
96-18-4	1,2,3-Trichloropropane	1	0.0065	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0065	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0065	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0065	U
106-93-4	1,2-Dibromoethane	1	0.0065	U
95-50-1	1,2-Dichlorobenzene	1	0.0065	U
107-06-2	1,2-Dichloroethane	1	0.0065	U
78-87-5	1,2-Dichloropropane	1	0.0065	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0065	U
541-73-1	1,3-Dichlorobenzene	1	0.0065	U
106-46-7	1,4-Dichlorobenzene	1	0.0065	U
123-91-1	1,4-Dioxane	1	0.13	U
78-93-3	2-Butanone	1	0.0065	U
591-78-6	2-Hexanone	1	0.0065	U
108-10-1	4-Methyl-2-pentanone	1	0.0065	U
67-64-1	Acetone	1	0.013	U J
107-02-8	Acrolein	1	0.013	U J
107-13-1	Acrylonitrile	1	0.0065	U
71-43-2	Benzene	1	0.0065	U
74-97-5	Bromochloromethane	1	0.0065	U
75-27-4	Bromodichloromethane	1	0.0065	U
75-25-2	Bromoform	1	0.0065	U
74-83-9	Bromomethane	1	0.0065	U
75-15-0	Carbon disulfide	1	0.0065	U
56-23-5	Carbon tetrachloride	1	0.0065	U
108-90-7	Chlorobenzene	1	0.0065	U
75-00-3	Chloroethane	1	0.0065	U
67-66-3	Chloroform	1	0.0065	U
74-87-3	Chloromethane	1	0.0065	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0065	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0065	U
110-82-7	Cyclohexane	1	0.0065	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	V11C017796.D
Sampled:	06/07/24 12:30	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 22:53
Solids:	92.08	Preparation:	EPA 5035A	Initial/Final:	4.17 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0065	U
74-95-3	Dibromomethane	1	0.0065	U
75-71-8	Dichlorodifluoromethane	1	0.0065	U J
100-41-4	Ethyl Benzene	1	0.0065	U
87-68-3	Hexachlorobutadiene	1	0.0065	U
98-82-8	Isopropylbenzene	1	0.0065	U
79-20-9	Methyl acetate	1	0.0065	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0065	U
108-87-2	Methylcyclohexane	1	0.0065	U
75-09-2	Methylene chloride	1	0.013	U
104-51-8	n-Butylbenzene	1	0.0065	U
103-65-1	n-Propylbenzene	1	0.0065	U
95-47-6	o-Xylene	1	0.0065	U
179601-23-1	p- & m- Xylenes	1	0.013	U
99-87-6	p-Isopropyltoluene	1	0.0065	U
135-98-8	sec-Butylbenzene	1	0.0065	U
100-42-5	Styrene	1	0.0065	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0065	U
98-06-6	tert-Butylbenzene	1	0.0065	U
127-18-4	Tetrachloroethylene	1	0.0065	U J
108-88-3	Toluene	1	0.0065	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0065	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0065	U
79-01-6	Trichloroethylene	1	0.0065	U
75-69-4	Trichlorofluoromethane	1	0.0065	U
75-01-4	Vinyl Chloride	1	0.0065	U
1330-20-7	Xylenes, Total	1	0.020	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.7	99.3	77 - 125	
SURR: Toluene-d8	50.0	48.6	97.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	412134	6.056	463498	6.054	
ISTD: Chlorobenzene-d5	1631049	9.102	1802002	9.101	
ISTD: 1,2-Dichlorobenzene-d4	695696	12.101	860547	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-62

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-03 File ID: V11C017797.D

Sampled: 06/07/24 12:25 Prepared: 06/10/24 09:00 Analyzed: 06/10/24 23:19

Solids: 91.70 Preparation: EPA 5035A Initial/Final: 6.1 g / 5 ml

Batch: BF40621 Sequence: S4F1107 Calibration: SF40006 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U
71-55-6	1,1,1-Trichloroethane	1	0.0045	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U
79-00-5	1,1,2-Trichloroethane	1	0.0045	U
75-34-3	1,1-Dichloroethane	1	0.0045	U
75-35-4	1,1-Dichloroethylene	1	0.0045	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U
96-18-4	1,2,3-Trichloropropane	1	0.0045	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0045	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U
106-93-4	1,2-Dibromoethane	1	0.0045	U
95-50-1	1,2-Dichlorobenzene	1	0.0045	U
107-06-2	1,2-Dichloroethane	1	0.0045	U
78-87-5	1,2-Dichloropropane	1	0.0045	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0045	U
541-73-1	1,3-Dichlorobenzene	1	0.0045	U
106-46-7	1,4-Dichlorobenzene	1	0.0045	U
123-91-1	1,4-Dioxane	1	0.089	U
78-93-3	2-Butanone	1	0.0045	U
591-78-6	2-Hexanone	1	0.0045	U
108-10-1	4-Methyl-2-pentanone	1	0.0045	U
67-64-1	Acetone	1	0.017	U
107-02-8	Acrolein	1	0.0089	U J
107-13-1	Acrylonitrile	1	0.0045	U
71-43-2	Benzene	1	0.0045	U
74-97-5	Bromochloromethane	1	0.0045	U
75-27-4	Bromodichloromethane	1	0.0045	U
75-25-2	Bromoform	1	0.0045	U
74-83-9	Bromomethane	1	0.0045	U
75-15-0	Carbon disulfide	1	0.0045	U
56-23-5	Carbon tetrachloride	1	0.0045	U
108-90-7	Chlorobenzene	1	0.0045	U
75-00-3	Chloroethane	1	0.0045	U
67-66-3	Chloroform	1	0.0045	U
74-87-3	Chloromethane	1	0.0045	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U
110-82-7	Cyclohexane	1	0.0045	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	V11C017797.D
Sampled:	06/07/24 12:25	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 23:19
Solids:	91.70	Preparation:	EPA 5035A	Initial/Final:	6.1 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0045	U
74-95-3	Dibromomethane	1	0.0045	U
75-71-8	Dichlorodifluoromethane	1	0.0045	U J
100-41-4	Ethyl Benzene	1	0.0045	U
87-68-3	Hexachlorobutadiene	1	0.0045	U
98-82-8	Isopropylbenzene	1	0.0045	U
79-20-9	Methyl acetate	1	0.0045	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U
108-87-2	Methylcyclohexane	1	0.0045	U
75-09-2	Methylene chloride	1	0.0089	U
104-51-8	n-Butylbenzene	1	0.0045	U
103-65-1	n-Propylbenzene	1	0.0045	U
95-47-6	o-Xylene	1	0.0045	U
179601-23-1	p- & m- Xylenes	1	0.0089	U
99-87-6	p-Isopropyltoluene	1	0.0045	U
135-98-8	sec-Butylbenzene	1	0.0045	U
100-42-5	Styrene	1	0.0045	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U
98-06-6	tert-Butylbenzene	1	0.0045	U
127-18-4	Tetrachloroethylene	1	0.0045	U J
108-88-3	Toluene	1	0.0045	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U
79-01-6	Trichloroethylene	1	0.0045	U
75-69-4	Trichlorofluoromethane	1	0.0045	U
75-01-4	Vinyl Chloride	1	0.0045	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.0	102	77 - 125	
SURR: Toluene-d8	50.0	48.9	97.8	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.2	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	412504	6.055	463498	6.054	
ISTD: Chlorobenzene-d5	1656472	9.102	1802002	9.101	
ISTD: 1,2-Dichlorobenzene-d4	704868	12.1	860547	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	V11C017798.D
Sampled:	06/07/24 12:20	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 23:45
Solids:	93.12	Preparation:	EPA 5035A	Initial/Final:	5.1 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0053	U
71-55-6	1,1,1-Trichloroethane	1	0.0053	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0053	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0053	U
79-00-5	1,1,2-Trichloroethane	1	0.0053	U
75-34-3	1,1-Dichloroethane	1	0.0053	U
75-35-4	1,1-Dichloroethylene	1	0.0053	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0053	U
96-18-4	1,2,3-Trichloropropane	1	0.0053	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0053	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0053	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0053	U
106-93-4	1,2-Dibromoethane	1	0.0053	U
95-50-1	1,2-Dichlorobenzene	1	0.0053	U
107-06-2	1,2-Dichloroethane	1	0.0053	U
78-87-5	1,2-Dichloropropane	1	0.0053	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0053	U
541-73-1	1,3-Dichlorobenzene	1	0.0053	U
106-46-7	1,4-Dichlorobenzene	1	0.0053	U
123-91-1	1,4-Dioxane	1	0.11	U
78-93-3	2-Butanone	1	0.0053	U
591-78-6	2-Hexanone	1	0.0053	U
108-10-1	4-Methyl-2-pentanone	1	0.0053	U
67-64-1	Acetone	1	0.011	U J
107-02-8	Acrolein	1	0.011	U J
107-13-1	Acrylonitrile	1	0.0053	U
71-43-2	Benzene	1	0.0053	U
74-97-5	Bromochloromethane	1	0.0053	U
75-27-4	Bromodichloromethane	1	0.0053	U
75-25-2	Bromoform	1	0.0053	U
74-83-9	Bromomethane	1	0.0053	U
75-15-0	Carbon disulfide	1	0.0053	U
56-23-5	Carbon tetrachloride	1	0.0053	U
108-90-7	Chlorobenzene	1	0.0053	U
75-00-3	Chloroethane	1	0.0053	U
67-66-3	Chloroform	1	0.0053	U
74-87-3	Chloromethane	1	0.0053	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0053	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0053	U
110-82-7	Cyclohexane	1	0.0053	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	V11C017798.D
Sampled:	06/07/24 12:20	Prepared:	06/10/24 09:00	Analyzed:	06/10/24 23:45
Solids:	93.12	Preparation:	EPA 5035A	Initial/Final:	5.1 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0053	U
74-95-3	Dibromomethane	1	0.0053	U
75-71-8	Dichlorodifluoromethane	1	0.0053	U J
100-41-4	Ethyl Benzene	1	0.0053	U
87-68-3	Hexachlorobutadiene	1	0.0053	U
98-82-8	Isopropylbenzene	1	0.0053	U
79-20-9	Methyl acetate	1	0.0053	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0053	U
108-87-2	Methylcyclohexane	1	0.0053	U
75-09-2	Methylene chloride	1	0.011	U
104-51-8	n-Butylbenzene	1	0.0053	U
103-65-1	n-Propylbenzene	1	0.0053	U
95-47-6	o-Xylene	1	0.0053	U
179601-23-1	p- & m- Xylenes	1	0.011	U
99-87-6	p-Isopropyltoluene	1	0.0053	U
135-98-8	sec-Butylbenzene	1	0.0053	U
100-42-5	Styrene	1	0.0053	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0053	U
98-06-6	tert-Butylbenzene	1	0.0053	U
127-18-4	Tetrachloroethylene	1	0.0053	U J
108-88-3	Toluene	1	0.0053	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0053	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0053	U
79-01-6	Trichloroethylene	1	0.0053	U
75-69-4	Trichlorofluoromethane	1	0.0053	U
75-01-4	Vinyl Chloride	1	0.0053	U
1330-20-7	Xylenes, Total	1	0.016	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.0	100	77 - 125	
SURR: Toluene-d8	50.0	49.4	98.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.8	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	421125	6.055	463498	6.054	
ISTD: Chlorobenzene-d5	1667200	9.102	1802002	9.101	
ISTD: 1,2-Dichlorobenzene-d4	721906	12.1	860547	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	V11C017799.D
Sampled:	06/07/24 12:35	Prepared:	06/10/24 09:00	Analyzed:	06/11/24 00:10
Solids:	92.36	Preparation:	EPA 5035A	Initial/Final:	4.74 g / 5 ml
Batch:	BF40621	Sequence:	S4F1107	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0057	U
71-55-6	1,1,1-Trichloroethane	1	0.0057	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0057	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0057	U
79-00-5	1,1,2-Trichloroethane	1	0.0057	U
75-34-3	1,1-Dichloroethane	1	0.0057	U
75-35-4	1,1-Dichloroethylene	1	0.0057	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0057	U
96-18-4	1,2,3-Trichloropropane	1	0.0057	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0057	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0057	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0057	U
106-93-4	1,2-Dibromoethane	1	0.0057	U
95-50-1	1,2-Dichlorobenzene	1	0.0057	U
107-06-2	1,2-Dichloroethane	1	0.0057	U
78-87-5	1,2-Dichloropropane	1	0.0057	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0057	U
541-73-1	1,3-Dichlorobenzene	1	0.0057	U
106-46-7	1,4-Dichlorobenzene	1	0.0057	U
123-91-1	1,4-Dioxane	1	0.11	U
78-93-3	2-Butanone	1	0.0057	U
591-78-6	2-Hexanone	1	0.0057	U
108-10-1	4-Methyl-2-pentanone	1	0.0057	U
67-64-1	Acetone	1	0.011	UJ
107-02-8	Acrolein	1	0.011	UJ
107-13-1	Acrylonitrile	1	0.0057	U
71-43-2	Benzene	1	0.0057	U
74-97-5	Bromochloromethane	1	0.0057	U
75-27-4	Bromodichloromethane	1	0.0057	U
75-25-2	Bromoform	1	0.0057	U
74-83-9	Bromomethane	1	0.0057	U
75-15-0	Carbon disulfide	1	0.0057	U
56-23-5	Carbon tetrachloride	1	0.0057	U
108-90-7	Chlorobenzene	1	0.0057	U
75-00-3	Chloroethane	1	0.0057	U
67-66-3	Chloroform	1	0.0057	U
74-87-3	Chloromethane	1	0.0057	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0057	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0057	U
110-82-7	Cyclohexane	1	0.0057	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-34

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-05 File ID: V11C017799.D

Sampled: 06/07/24 12:35 Prepared: 06/10/24 09:00 Analyzed: 06/11/24 00:10

Solids: 92.36 Preparation: EPA 5035A Initial/Final: 4.74 g / 5 ml

Batch: BF40621 Sequence: S4F1107 Calibration: SF40006 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0057	U
74-95-3	Dibromomethane	1	0.0057	U
75-71-8	Dichlorodifluoromethane	1	0.0057	U J
100-41-4	Ethyl Benzene	1	0.0057	U
87-68-3	Hexachlorobutadiene	1	0.0057	U
98-82-8	Isopropylbenzene	1	0.0057	U
79-20-9	Methyl acetate	1	0.0057	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0057	U
108-87-2	Methylcyclohexane	1	0.0057	U
75-09-2	Methylene chloride	1	0.011	U
104-51-8	n-Butylbenzene	1	0.0057	U
103-65-1	n-Propylbenzene	1	0.0057	U
95-47-6	o-Xylene	1	0.0057	U
179601-23-1	p- & m- Xylenes	1	0.011	U
99-87-6	p-Isopropyltoluene	1	0.0057	U
135-98-8	sec-Butylbenzene	1	0.0057	U
100-42-5	Styrene	1	0.0057	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0057	U
98-06-6	tert-Butylbenzene	1	0.0057	U
127-18-4	Tetrachloroethylene	1	0.0057	U J
108-88-3	Toluene	1	0.0057	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0057	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0057	U
79-01-6	Trichloroethylene	1	0.0057	U
75-69-4	Trichlorofluoromethane	1	0.0057	U
75-01-4	Vinyl Chloride	1	0.0057	U
1330-20-7	Xylenes, Total	1	0.017	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.0	102	77 - 125	
SURR: Toluene-d8	50.0	49.0	98.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.6	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	420087	6.055	463498	6.054	
ISTD: Chlorobenzene-d5	1697781	9.102	1802002	9.101	
ISTD: 1,2-Dichlorobenzene-d4	742590	12.1	860547	12.099	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-06	File ID:	V10C05163.D
Sampled:	06/07/24 12:35	Prepared:	06/10/24 08:00	Analyzed:	06/10/24 13:39
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40596	Sequence:	S4F1038	Calibration:	SF40012
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.73	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-06	File ID:	V10C05163.D
Sampled:	06/07/24 12:35	Prepared:	06/10/24 08:00	Analyzed:	06/10/24 13:39
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40596	Sequence:	S4F1038	Calibration:	SF40012
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	9.81	98.1	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	121643	6.293	125942	6.293	
ISTD: Chlorobenzene-d5	454611	9.347	466374	9.347	
ISTD: 1,2-Dichlorobenzene-d4	159655	12.357	174773	12.36	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	V10C05165.D
Sampled:	06/07/24 14:05	Prepared:	06/10/24 08:00	Analyzed:	06/10/24 14:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40596	Sequence:	S4F1038	Calibration:	SF40012
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.290	J
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	2.51	
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	V10C05165.D
Sampled:	06/07/24 14:05	Prepared:	06/10/24 08:00	Analyzed:	06/10/24 14:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40596	Sequence:	S4F1038	Calibration:	SF40012
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	9.99	99.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	121568	6.293	125942	6.293	
ISTD: Chlorobenzene-d5	446571	9.351	466374	9.347	
ISTD: 1,2-Dichlorobenzene-d4	158853	12.357	174773	12.36	

* Values outside of QC limits

Semivolatiles
Method 8270 SIM

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	SV521547.D
Sampled:	06/07/24 14:05	Prepared:	06/09/24 07:02	Analyzed:	06/12/24 10:39
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BF40535	Sequence:	S4F1235	Calibration:	SE40037
Instrument:	BNA #5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0500	U
208-96-8	Acenaphthylene	1	0.0500	U
120-12-7	Anthracene	1	0.0500	U
1912-24-9	Atrazine	1	0.500	U
56-55-3	Benzo(a)anthracene	1	0.0500	U
50-32-8	Benzo(a)pyrene	1	0.0500	U
205-99-2	Benzo(b)fluoranthene	1	0.0500	U
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U
207-08-9	Benzo(k)fluoranthene	1	0.0500	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U
218-01-9	Chrysene	1	0.0500	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U
206-44-0	Fluoranthene	1	0.0500	U
86-73-7	Fluorene	1	0.0500	U
118-74-1	Hexachlorobenzene	1	0.0200	U
87-68-3	Hexachlorobutadiene	1	0.500	U
67-72-1	Hexachloroethane	1	0.500	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U
91-20-3	Naphthalene	1	0.0500	U
98-95-3	Nitrobenzene	1	0.250	U
62-75-9	N-Nitrosodimethylamine	1	0.500	U
87-86-5	Pentachlorophenol	1	0.250	U
85-01-8	Phenanthrene	1	0.0500	U
129-00-0	Pyrene	1	0.0500	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	17113560	8.15	18615980	8.15	
ISTD: Naphthalene-d8	59389480	9.77	53784200	9.76	
ISTD: Acenaphthene-d10	37267660	12.16	32047050	12.16	
ISTD: Phenanthrene-d10	61754790	14.27	46660880	14.27	
ISTD: Chrysene-d12	47652620	18.04	41739650	18.04	
ISTD: Perylene-d12	49878760	19.94	44671740	19.94	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-01 File ID: E900321586.D

Sampled: 06/07/24 12:15 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 09:41

Solids: 91.85 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0905	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0905	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U
95-95-4	2,4,5-Trichlorophenol	2	0.0905	U
88-06-2	2,4,6-Trichlorophenol	2	0.0905	U
120-83-2	2,4-Dichlorophenol	2	0.0905	U
105-67-9	2,4-Dimethylphenol	2	0.0905	U
51-28-5	2,4-Dinitrophenol	2	0.181	U J
121-14-2	2,4-Dinitrotoluene	2	0.0905	U J
606-20-2	2,6-Dinitrotoluene	2	0.0905	U J
91-58-7	2-Chloronaphthalene	2	0.0905	U
95-57-8	2-Chlorophenol	2	0.0905	U
91-57-6	2-Methylnaphthalene	2	0.0905	U
95-48-7	2-Methylphenol	2	0.0905	U
88-74-4	2-Nitroaniline	2	0.181	U
88-75-5	2-Nitrophenol	2	0.0905	U J
65794-96-9	3- & 4-Methylphenols	2	0.0905	U
91-94-1	3,3-Dichlorobenzidine	2	0.0905	U
99-09-2	3-Nitroaniline	2	0.181	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0905	U
59-50-7	4-Chloro-3-methylphenol	2	0.0905	U
106-47-8	4-Chloroaniline	2	0.0905	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0905	U
100-01-6	4-Nitroaniline	2	0.181	U
100-02-7	4-Nitrophenol	2	0.181	U
83-32-9	Acenaphthene	2	0.0905	U
208-96-8	Acenaphthylene	2	0.0905	U
98-86-2	Acetophenone	2	0.0905	U
62-53-3	Aniline	2	0.362	U
120-12-7	Anthracene	2	0.0905	U
1912-24-9	Atrazine	2	0.0905	U
100-52-7	Benzaldehyde	2	0.0905	U
92-87-5	Benzidine	2	0.362	U
56-55-3	Benzo(a)anthracene	2	0.0905	U
50-32-8	Benzo(a)pyrene	2	0.0905	U
205-99-2	Benzo(b)fluoranthene	2	0.0905	U
191-24-2	Benzo(g,h,i)perylene	2	0.0905	U
207-08-9	Benzo(k)fluoranthene	2	0.0905	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-01 File ID: E900321586.D

Sampled: 06/07/24 12:15 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 09:41

Solids: 91.85 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0905	U J
100-51-6	Benzyl alcohol	2	0.0905	U
85-68-7	Benzyl butyl phthalate	2	0.0905	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0905	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0905	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0905	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0905	U
105-60-2	Caprolactam	2	0.181	U
86-74-8	Carbazole	2	0.0905	U
218-01-9	Chrysene	2	0.0905	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0905	U
132-64-9	Dibenzofuran	2	0.0905	U
84-66-2	Diethyl phthalate	2	0.0905	U
131-11-3	Dimethyl phthalate	2	0.0905	U
84-74-2	Di-n-butyl phthalate	2	0.0905	U
117-84-0	Di-n-octyl phthalate	2	0.0905	U
122-39-4	Diphenylamine	2	0.181	U
206-44-0	Fluoranthene	2	0.0905	U
86-73-7	Fluorene	2	0.0905	U
118-74-1	Hexachlorobenzene	2	0.0905	U
87-68-3	Hexachlorobutadiene	2	0.0905	U
77-47-4	Hexachlorocyclopentadiene	2	0.0905	U J
67-72-1	Hexachloroethane	2	0.0905	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0905	U
78-59-1	Isophorone	2	0.0905	U
91-20-3	Naphthalene	2	0.0905	U
98-95-3	Nitrobenzene	2	0.0905	U
62-75-9	N-Nitrosodimethylamine	2	0.0905	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0905	U
86-30-6	N-Nitrosodiphenylamine	2	0.0905	U
87-86-5	Pentachlorophenol	2	0.0905	U J
85-01-8	Phenanthrene	2	0.0905	U
108-95-2	Phenol	2	0.0905	U
129-00-0	Pyrene	2	0.0905	U
110-86-1	Pyridine	2	0.362	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	1.63	90.0	20 - 108	
SURR: Phenol-d6	1.81	1.50	83.2	23 - 114	
SURR: Nitrobenzene-d5	0.904	0.949	105	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	E900321586.D
Sampled:	06/07/24 12:15	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 09:41
Solids:	91.85	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.904	0.852	94.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	2.06	114	19 - 110	*
SURR: Terphenyl-d14	0.904	0.981	108	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	297343	5.435	331531	5.435	
ISTD: Naphthalene-d8	1308430	6.533	1646147	6.534	
ISTD: Acenaphthene-d10	754627	8.399	913017	8.393	
ISTD: Phenanthrene-d10	989458	10.259	1179555	10.259	
ISTD: Chrysene-d12	806802	15.094	979042	15.094	
ISTD: Perylene-d12	911787	18.133	1164321	18.133	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	E900321587.D
Sampled:	06/07/24 12:30	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 10:10
Solids:	92.08	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0897	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.179	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0897	UJ
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.179	U
95-95-4	2,4,5-Trichlorophenol	2	0.0897	U
88-06-2	2,4,6-Trichlorophenol	2	0.0897	U
120-83-2	2,4-Dichlorophenol	2	0.0897	U
105-67-9	2,4-Dimethylphenol	2	0.0897	U
51-28-5	2,4-Dinitrophenol	2	0.179	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0897	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0897	UJ
91-58-7	2-Chloronaphthalene	2	0.0897	U
95-57-8	2-Chlorophenol	2	0.0897	U
91-57-6	2-Methylnaphthalene	2	0.0897	U
95-48-7	2-Methylphenol	2	0.0897	U
88-74-4	2-Nitroaniline	2	0.179	U
88-75-5	2-Nitrophenol	2	0.0897	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0897	U
91-94-1	3,3-Dichlorobenzidine	2	0.0897	U
99-09-2	3-Nitroaniline	2	0.179	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.179	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0897	U
59-50-7	4-Chloro-3-methylphenol	2	0.0897	U
106-47-8	4-Chloroaniline	2	0.0897	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0897	U
100-01-6	4-Nitroaniline	2	0.179	U
100-02-7	4-Nitrophenol	2	0.179	U
83-32-9	Acenaphthene	2	0.0897	U
208-96-8	Acenaphthylene	2	0.0897	U
98-86-2	Acetophenone	2	0.0897	U
62-53-3	Aniline	2	0.359	U
120-12-7	Anthracene	2	0.0897	U
1912-24-9	Atrazine	2	0.0897	U
100-52-7	Benzaldehyde	2	0.0897	U
92-87-5	Benzidine	2	0.359	U
56-55-3	Benzo(a)anthracene	2	0.0897	U
50-32-8	Benzo(a)pyrene	2	0.0897	U
205-99-2	Benzo(b)fluoranthene	2	0.0897	U
191-24-2	Benzo(g,h,i)perylene	2	0.0897	U
207-08-9	Benzo(k)fluoranthene	2	0.0897	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-13

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-02 File ID: E900321587.D

Sampled: 06/07/24 12:30 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 10:10

Solids: 92.08 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0897	UJ
100-51-6	Benzyl alcohol	2	0.0897	U
85-68-7	Benzyl butyl phthalate	2	0.0897	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0897	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0897	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0897	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0897	U
105-60-2	Caprolactam	2	0.179	U
86-74-8	Carbazole	2	0.0897	U
218-01-9	Chrysene	2	0.0897	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0897	U
132-64-9	Dibenzofuran	2	0.0897	U
84-66-2	Diethyl phthalate	2	0.0897	U
131-11-3	Dimethyl phthalate	2	0.0897	U
84-74-2	Di-n-butyl phthalate	2	0.0897	U
117-84-0	Di-n-octyl phthalate	2	0.0897	U
122-39-4	Diphenylamine	2	0.179	U
206-44-0	Fluoranthene	2	0.0897	U
86-73-7	Fluorene	2	0.0897	U
118-74-1	Hexachlorobenzene	2	0.0897	U
87-68-3	Hexachlorobutadiene	2	0.0897	U
77-47-4	Hexachlorocyclopentadiene	2	0.0897	UJ
67-72-1	Hexachloroethane	2	0.0897	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0897	U
78-59-1	Isophorone	2	0.0897	U
91-20-3	Naphthalene	2	0.0897	U
98-95-3	Nitrobenzene	2	0.0897	U
62-75-9	N-Nitrosodimethylamine	2	0.0897	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0897	U
86-30-6	N-Nitrosodiphenylamine	2	0.0897	U
87-86-5	Pentachlorophenol	2	0.0897	UJ
85-01-8	Phenanthrene	2	0.0897	U
108-95-2	Phenol	2	0.0897	U
129-00-0	Pyrene	2	0.0897	U
110-86-1	Pyridine	2	0.359	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.79	1.29	72.2	20 - 108	
SURR: Phenol-d6	1.79	1.15	64.0	23 - 114	
SURR: Nitrobenzene-d5	0.896	0.729	81.4	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	E900321587.D
Sampled:	06/07/24 12:30	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 10:10
Solids:	92.08	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.896	0.643	71.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.79	1.61	89.7	19 - 110	
SURR: Terphenyl-d14	0.896	0.714	79.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	294477	5.435	331531	5.435	
ISTD: Naphthalene-d8	1265812	6.533	1646147	6.534	
ISTD: Acenaphthene-d10	717680	8.393	913017	8.393	
ISTD: Phenanthrene-d10	934578	10.259	1179555	10.259	
ISTD: Chrysene-d12	817604	15.088	979042	15.094	
ISTD: Perylene-d12	968299	18.128	1164321	18.133	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	E900321588.D
Sampled:	06/07/24 12:25	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 10:39
Solids:	91.70	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0892	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0892	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0892	U
88-06-2	2,4,6-Trichlorophenol	2	0.0892	U
120-83-2	2,4-Dichlorophenol	2	0.0892	U
105-67-9	2,4-Dimethylphenol	2	0.0892	U
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0892	U J
606-20-2	2,6-Dinitrotoluene	2	0.0892	U J
91-58-7	2-Chloronaphthalene	2	0.0892	U
95-57-8	2-Chlorophenol	2	0.0892	U
91-57-6	2-Methylnaphthalene	2	0.0892	U
95-48-7	2-Methylphenol	2	0.0892	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0892	U J
65794-96-9	3- & 4-Methylphenols	2	0.0892	U
91-94-1	3,3-Dichlorobenzidine	2	0.0892	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0892	U
59-50-7	4-Chloro-3-methylphenol	2	0.0892	U
106-47-8	4-Chloroaniline	2	0.0892	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0892	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U
83-32-9	Acenaphthene	2	0.0892	U
208-96-8	Acenaphthylene	2	0.0892	U
98-86-2	Acetophenone	2	0.0892	U
62-53-3	Aniline	2	0.357	U
120-12-7	Anthracene	2	0.0892	U
1912-24-9	Atrazine	2	0.0892	U
100-52-7	Benzaldehyde	2	0.0892	U
92-87-5	Benzidine	2	0.357	U
56-55-3	Benzo(a)anthracene	2	0.0892	U
50-32-8	Benzo(a)pyrene	2	0.0892	U
205-99-2	Benzo(b)fluoranthene	2	0.0892	U
191-24-2	Benzo(g,h,i)perylene	2	0.0892	U
207-08-9	Benzo(k)fluoranthene	2	0.0892	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-62

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-03 File ID: E900321588.D

Sampled: 06/07/24 12:25 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 10:39

Solids: 91.70 Preparation: EPA 3550C Initial/Final: 30.6 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0892	UJ
100-51-6	Benzyl alcohol	2	0.0892	U
85-68-7	Benzyl butyl phthalate	2	0.0892	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0892	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0892	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0892	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0892	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0892	U
218-01-9	Chrysene	2	0.0892	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0892	U
132-64-9	Dibenzofuran	2	0.0892	U
84-66-2	Diethyl phthalate	2	0.0892	U
131-11-3	Dimethyl phthalate	2	0.0892	U
84-74-2	Di-n-butyl phthalate	2	0.0892	U
117-84-0	Di-n-octyl phthalate	2	0.0892	U
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0892	U
86-73-7	Fluorene	2	0.0892	U
118-74-1	Hexachlorobenzene	2	0.0892	U
87-68-3	Hexachlorobutadiene	2	0.0892	U
77-47-4	Hexachlorocyclopentadiene	2	0.0892	UJ
67-72-1	Hexachloroethane	2	0.0892	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0892	U
78-59-1	Isophorone	2	0.0892	U
91-20-3	Naphthalene	2	0.0892	U
98-95-3	Nitrobenzene	2	0.0892	U
62-75-9	N-Nitrosodimethylamine	2	0.0892	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0892	U
86-30-6	N-Nitrosodiphenylamine	2	0.0892	U
87-86-5	Pentachlorophenol	2	0.0892	UJ
85-01-8	Phenanthrene	2	0.0449	JD
108-95-2	Phenol	2	0.0892	U
129-00-0	Pyrene	2	0.0892	U
110-86-1	Pyridine	2	0.357	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.37	76.8	20 - 108	
SURR: Phenol-d6	1.78	1.24	69.4	23 - 114	
SURR: Nitrobenzene-d5	0.891	0.775	87.0	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	E900321588.D
Sampled:	06/07/24 12:25	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 10:39
Solids:	91.70	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.891	0.698	78.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.75	98.3	19 - 110	
SURR: Terphenyl-d14	0.891	0.760	85.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	280277	5.435	331531	5.435	
ISTD: Naphthalene-d8	1225042	6.533	1646147	6.534	
ISTD: Acenaphthene-d10	702049	8.393	913017	8.393	
ISTD: Phenanthrene-d10	910373	10.259	1179555	10.259	
ISTD: Chrysene-d12	811401	15.088	979042	15.094	
ISTD: Perylene-d12	1007232	18.133	1164321	18.133	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-33

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-04 File ID: E900321589.D

Sampled: 06/07/24 12:20 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 11:08

Solids: 93.12 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0893	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0893	UJ
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0893	U
88-06-2	2,4,6-Trichlorophenol	2	0.0893	U
120-83-2	2,4-Dichlorophenol	2	0.0893	U
105-67-9	2,4-Dimethylphenol	2	0.0893	U
51-28-5	2,4-Dinitrophenol	2	0.178	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0893	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0893	UJ
91-58-7	2-Chloronaphthalene	2	0.0893	U
95-57-8	2-Chlorophenol	2	0.0893	U
91-57-6	2-Methylnaphthalene	2	0.0893	U
95-48-7	2-Methylphenol	2	0.0893	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0893	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0893	U
91-94-1	3,3-Dichlorobenzidine	2	0.0893	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0893	U
59-50-7	4-Chloro-3-methylphenol	2	0.0893	U
106-47-8	4-Chloroaniline	2	0.0893	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0893	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U
83-32-9	Acenaphthene	2	0.0893	U
208-96-8	Acenaphthylene	2	0.0893	U
98-86-2	Acetophenone	2	0.0893	U
62-53-3	Aniline	2	0.357	U
120-12-7	Anthracene	2	0.0893	U
1912-24-9	Atrazine	2	0.0893	U
100-52-7	Benzaldehyde	2	0.0893	U
92-87-5	Benzidine	2	0.357	U
56-55-3	Benzo(a)anthracene	2	0.0893	U
50-32-8	Benzo(a)pyrene	2	0.0893	U
205-99-2	Benzo(b)fluoranthene	2	0.0893	U
191-24-2	Benzo(g,h,i)perylene	2	0.0893	U
207-08-9	Benzo(k)fluoranthene	2	0.0893	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-33

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-04 File ID: E900321589.D

Sampled: 06/07/24 12:20 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 11:08

Solids: 93.12 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0893	U J
100-51-6	Benzyl alcohol	2	0.0893	U
85-68-7	Benzyl butyl phthalate	2	0.0893	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0893	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0893	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0893	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0893	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0893	U
218-01-9	Chrysene	2	0.0893	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0893	U
132-64-9	Dibenzofuran	2	0.0893	U
84-66-2	Diethyl phthalate	2	0.0893	U
131-11-3	Dimethyl phthalate	2	0.0893	U
84-74-2	Di-n-butyl phthalate	2	0.0893	U
117-84-0	Di-n-octyl phthalate	2	0.0893	U
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0893	U
86-73-7	Fluorene	2	0.0893	U
118-74-1	Hexachlorobenzene	2	0.0893	U
87-68-3	Hexachlorobutadiene	2	0.0893	U
77-47-4	Hexachlorocyclopentadiene	2	0.0893	U J
67-72-1	Hexachloroethane	2	0.0893	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0893	U
78-59-1	Isophorone	2	0.0893	U
91-20-3	Naphthalene	2	0.0893	U
98-95-3	Nitrobenzene	2	0.0893	U
62-75-9	N-Nitrosodimethylamine	2	0.0893	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0893	U
86-30-6	N-Nitrosodiphenylamine	2	0.0893	U
87-86-5	Pentachlorophenol	2	0.0893	U J
85-01-8	Phenanthrene	2	0.0893	U
108-95-2	Phenol	2	0.0893	U
129-00-0	Pyrene	2	0.0893	U
110-86-1	Pyridine	2	0.357	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.23	68.7	20 - 108	
SURR: Phenol-d6	1.78	1.10	61.6	23 - 114	
SURR: Nitrobenzene-d5	0.892	0.719	80.6	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	E900321589.D
Sampled:	06/07/24 12:20	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 11:08
Solids:	93.12	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.892	0.609	68.3	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.56	87.6	19 - 110	
SURR: Terphenyl-d14	0.892	0.726	81.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	291000	5.435	331531	5.435	
ISTD: Naphthalene-d8	1245383	6.533	1646147	6.534	
ISTD: Acenaphthene-d10	713786	8.393	913017	8.393	
ISTD: Phenanthrene-d10	938540	10.259	1179555	10.259	
ISTD: Chrysene-d12	823234	15.088	979042	15.094	
ISTD: Perylene-d12	989356	18.127	1164321	18.133	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	E900321590.D
Sampled:	06/07/24 12:35	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 11:37
Solids:	92.36	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0900	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0900	U
88-06-2	2,4,6-Trichlorophenol	2	0.0900	U
120-83-2	2,4-Dichlorophenol	2	0.0900	U
105-67-9	2,4-Dimethylphenol	2	0.0900	U
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0900	U J
606-20-2	2,6-Dinitrotoluene	2	0.0900	U J
91-58-7	2-Chloronaphthalene	2	0.0900	U
95-57-8	2-Chlorophenol	2	0.0900	U
91-57-6	2-Methylnaphthalene	2	0.0900	U
95-48-7	2-Methylphenol	2	0.0900	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0900	U J
65794-96-9	3- & 4-Methylphenols	2	0.0900	U
91-94-1	3,3-Dichlorobenzidine	2	0.0900	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0900	U
59-50-7	4-Chloro-3-methylphenol	2	0.0900	U
106-47-8	4-Chloroaniline	2	0.0900	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0900	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U
83-32-9	Acenaphthene	2	0.0900	U
208-96-8	Acenaphthylene	2	0.0900	U
98-86-2	Acetophenone	2	0.0900	U
62-53-3	Aniline	2	0.360	U
120-12-7	Anthracene	2	0.0900	U
1912-24-9	Atrazine	2	0.0900	U
100-52-7	Benzaldehyde	2	0.0900	U
92-87-5	Benzidine	2	0.360	U
56-55-3	Benzo(a)anthracene	2	0.0900	U
50-32-8	Benzo(a)pyrene	2	0.0900	U
205-99-2	Benzo(b)fluoranthene	2	0.0900	U
191-24-2	Benzo(g,h,i)perylene	2	0.0900	U
207-08-9	Benzo(k)fluoranthene	2	0.0900	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-34

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-05 File ID: E900321590.D

Sampled: 06/07/24 12:35 Prepared: 06/08/24 07:07 Analyzed: 06/12/24 11:37

Solids: 92.36 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40521 Sequence: S4F1327 Calibration: SD40008 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0900	U J
100-51-6	Benzyl alcohol	2	0.0900	U
85-68-7	Benzyl butyl phthalate	2	0.0900	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0900	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0900	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0900	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0900	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0900	U
218-01-9	Chrysene	2	0.0900	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0900	U
132-64-9	Dibenzofuran	2	0.0900	U
84-66-2	Diethyl phthalate	2	0.0900	U
131-11-3	Dimethyl phthalate	2	0.0900	U
84-74-2	Di-n-butyl phthalate	2	0.0900	U
117-84-0	Di-n-octyl phthalate	2	0.0900	U
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0900	U
86-73-7	Fluorene	2	0.0900	U
118-74-1	Hexachlorobenzene	2	0.0900	U
87-68-3	Hexachlorobutadiene	2	0.0900	U
77-47-4	Hexachlorocyclopentadiene	2	0.0900	U J
67-72-1	Hexachloroethane	2	0.0900	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0900	U
78-59-1	Isophorone	2	0.0900	U
91-20-3	Naphthalene	2	0.0900	U
98-95-3	Nitrobenzene	2	0.0900	U
62-75-9	N-Nitrosodimethylamine	2	0.0900	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0900	U
86-30-6	N-Nitrosodiphenylamine	2	0.0900	U
87-86-5	Pentachlorophenol	2	0.0900	U J
85-01-8	Phenanthrene	2	0.0900	U
108-95-2	Phenol	2	0.0900	U
129-00-0	Pyrene	2	0.0900	U
110-86-1	Pyridine	2	0.360	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.45	80.5	20 - 108	
SURR: Phenol-d6	1.80	1.41	78.1	23 - 114	
SURR: Nitrobenzene-d5	0.899	0.842	93.6	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	E900321590.D
Sampled:	06/07/24 12:35	Prepared:	06/08/24 07:07	Analyzed:	06/12/24 11:37
Solids:	92.36	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BF40521	Sequence:	S4F1327	Calibration:	SD40008
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.899	0.718	79.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.73	96.3	19 - 110	
SURR: Terphenyl-d14	0.899	0.829	92.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	273167	5.435	331531	5.435	
ISTD: Naphthalene-d8	1219926	6.534	1646147	6.534	
ISTD: Acenaphthene-d10	707398	8.393	913017	8.393	
ISTD: Phenanthrene-d10	940106	10.259	1179555	10.259	
ISTD: Chrysene-d12	809282	15.088	979042	15.094	
ISTD: Perylene-d12	983533	18.128	1164321	18.133	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	SV303242.D
Sampled:	06/07/24 14:05	Prepared:	06/09/24 07:02	Analyzed:	06/11/24 18:39
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BF40535	Sequence:	S4F1207	Calibration:	SF40015
Instrument:	BNA #3				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
92-52-4	1,1-Biphenyl	1	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U
95-95-4	2,4,5-Trichlorophenol	1	5.00	U
88-06-2	2,4,6-Trichlorophenol	1	5.00	U
120-83-2	2,4-Dichlorophenol	1	5.00	U
105-67-9	2,4-Dimethylphenol	1	5.00	U
51-28-5	2,4-Dinitrophenol	1	5.00	U
121-14-2	2,4-Dinitrotoluene	1	5.00	U
606-20-2	2,6-Dinitrotoluene	1	5.00	U
91-58-7	2-Chloronaphthalene	1	5.00	U
95-57-8	2-Chlorophenol	1	5.00	U
91-57-6	2-Methylnaphthalene	1	5.00	U
95-48-7	2-Methylphenol	1	5.00	U
88-74-4	2-Nitroaniline	1	5.00	U
88-75-5	2-Nitrophenol	1	5.00	U
65794-96-9	3- & 4-Methylphenols	1	5.00	U
91-94-1	3,3-Dichlorobenzidine	1	5.00	U
99-09-2	3-Nitroaniline	1	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U
59-50-7	4-Chloro-3-methylphenol	1	5.00	U
106-47-8	4-Chloroaniline	1	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U
100-01-6	4-Nitroaniline	1	5.00	U
100-02-7	4-Nitrophenol	1	5.00	U
98-86-2	Acetophenone	1	5.00	U
62-53-3	Aniline	1	5.00	U
100-52-7	Benzaldehyde	1	5.00	U
92-87-5	Benzidine	1	5.00	U
65-85-0	Benzoic acid	1	5.00	U
100-51-6	Benzyl alcohol	1	5.00	U
85-68-7	Benzyl butyl phthalate	1	5.00	U
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	SV303242.D
Sampled:	06/07/24 14:05	Prepared:	06/09/24 07:02	Analyzed:	06/11/24 18:39
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BF40535	Sequence:	S4F1207	Calibration:	SF40015
Instrument:	BNA #3				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
122-39-4	Diphenylamine	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
110-86-1	Pyridine	1	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	21.5	42.9	19.7 - 63.1	
SURR: Phenol-d6	50.0	12.3	24.6	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	22.1	88.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	20.2	80.9	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	46.3	92.7	39.3 - 151	
SURR: Terphenyl-d14	25.0	22.9	91.5	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	3599054	5.969	4277959	5.97	
ISTD: Naphthalene-d8	14785270	6.907	19618120	6.908	
ISTD: Acenaphthene-d10	8969349	8.625	11408180	8.626	
ISTD: Phenanthrene-d10	16554850	10.823	21299410	10.827	
ISTD: Chrysene-d12	15069430	16.437	20919340	16.445	
ISTD: Perylene-d12	18291280	19.578	24403600	19.586	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-01 File ID: P7027903.D

Sampled: 06/07/24 12:15 Prepared: 06/08/24 07:04 Analyzed: 06/14/24 09:59

Solids: 91.85 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BF40520 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00179	U
72-55-9	4,4'-DDE	5	0.00179	U
50-29-3	4,4'-DDT	5	0.00179	U
309-00-2	Aldrin	5	0.00179	U
319-84-6	alpha-BHC	5	0.00179	U
5103-71-9	alpha-Chlordane	5	0.00179	U
319-85-7	beta-BHC	5	0.00179	U
319-86-8	delta-BHC	5	0.00179	U
60-57-1	Dieldrin	5	0.00179	U
959-98-8	Endosulfan I	5	0.00179	U
33213-65-9	Endosulfan II	5	0.00179	U
1031-07-8	Endosulfan sulfate	5	0.00179	U
72-20-8	Endrin	5	0.00179	U
7421-93-4	Endrin aldehyde	5	0.00179	U
53494-70-5	Endrin ketone	5	0.00179	U
58-89-9	gamma-BHC (Lindane)	5	0.00179	U
5566-34-7	gamma-Chlordane	5	0.00179	U
76-44-8	Heptachlor	5	0.00179	U
1024-57-3	Heptachlor epoxide	5	0.00179	U
72-43-5	Methoxychlor	5	0.00179	U
8001-35-2	Toxaphene	5	0.179	U
57-74-9	Chlordane, total	5	0.0358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0723	0.0496	68.5	30 - 150	
Tetrachloro-m-xylene	0.0723	0.0724	100	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-13

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-02 File ID: P7027904.D

Sampled: 06/07/24 12:30 Prepared: 06/08/24 07:04 Analyzed: 06/14/24 10:16

Solids: 92.08 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BF40520 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0717	0.0567	79.1	30 - 150	
Tetrachloro-m-xylene	0.0717	0.0841	117	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	P7027905.D
Sampled:	06/07/24 12:25	Prepared:	06/08/24 07:04	Analyzed:	06/14/24 10:33
Solids:	91.70	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BF40520	Sequence:	S4F1432	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0354	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0715	0.0660	92.3	30 - 150	
Tetrachloro-m-xylene	0.0715	0.0881	123	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-33

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-04 File ID: P7027906.D

Sampled: 06/07/24 12:20 Prepared: 06/08/24 07:04 Analyzed: 06/14/24 10:50

Solids: 93.12 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BF40520 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00175	U
72-55-9	4,4'-DDE	5	0.00175	U
50-29-3	4,4'-DDT	5	0.00175	U
309-00-2	Aldrin	5	0.00175	U
319-84-6	alpha-BHC	5	0.00175	U
5103-71-9	alpha-Chlordane	5	0.00175	U
319-85-7	beta-BHC	5	0.00175	U
319-86-8	delta-BHC	5	0.00175	U
60-57-1	Dieldrin	5	0.00175	U
959-98-8	Endosulfan I	5	0.00175	U
33213-65-9	Endosulfan II	5	0.00175	U
1031-07-8	Endosulfan sulfate	5	0.00175	U
72-20-8	Endrin	5	0.00175	U
7421-93-4	Endrin aldehyde	5	0.00175	U
53494-70-5	Endrin ketone	5	0.00175	U
58-89-9	gamma-BHC (Lindane)	5	0.00175	U
5566-34-7	gamma-Chlordane	5	0.00175	U
76-44-8	Heptachlor	5	0.00175	U
1024-57-3	Heptachlor epoxide	5	0.00175	U
72-43-5	Methoxychlor	5	0.00175	U
8001-35-2	Toxaphene	5	0.175	U
57-74-9	Chlordane, total	5	0.0350	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0706	0.0508	71.9	30 - 150	
Tetrachloro-m-xylene	0.0706	0.0731	104	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	P7027907.D
Sampled:	06/07/24 12:35	Prepared:	06/08/24 07:04	Analyzed:	06/14/24 11:07
Solids:	92.36	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BF40520	Sequence:	S4F1432	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00176	U
72-55-9	4,4'-DDE	5	0.00176	U
50-29-3	4,4'-DDT	5	0.00176	U
309-00-2	Aldrin	5	0.00176	U
319-84-6	alpha-BHC	5	0.00176	U
5103-71-9	alpha-Chlordane	5	0.00176	U
319-85-7	beta-BHC	5	0.00176	U
319-86-8	delta-BHC	5	0.00176	U
60-57-1	Dieldrin	5	0.00176	U
959-98-8	Endosulfan I	5	0.00176	U
33213-65-9	Endosulfan II	5	0.00176	U
1031-07-8	Endosulfan sulfate	5	0.00176	U
72-20-8	Endrin	5	0.00176	U
7421-93-4	Endrin aldehyde	5	0.00176	U
53494-70-5	Endrin ketone	5	0.00176	U
58-89-9	gamma-BHC (Lindane)	5	0.00176	U
5566-34-7	gamma-Chlordane	5	0.00176	U
76-44-8	Heptachlor	5	0.00176	U
1024-57-3	Heptachlor epoxide	5	0.00176	U
72-43-5	Methoxychlor	5	0.00176	U
8001-35-2	Toxaphene	5	0.176	U
57-74-9	Chlordane, total	5	0.0351	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0710	0.0562	79.1	30 - 150	
Tetrachloro-m-xylene	0.0710	0.0806	114	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	P7027746.D
Sampled:	06/07/24 14:05	Prepared:	06/09/24 07:14	Analyzed:	06/10/24 15:08
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BF40536	Sequence:	S4F1128	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	1	0.00400	U
72-55-9	4,4'-DDE	1	0.00400	U
50-29-3	4,4'-DDT	1	0.00400	U
309-00-2	Aldrin	1	0.00400	U
319-84-6	alpha-BHC	1	0.00400	U
5103-71-9	alpha-Chlordane	1	0.00400	U
319-85-7	beta-BHC	1	0.00400	U
319-86-8	delta-BHC	1	0.00400	U
60-57-1	Dieldrin	1	0.00200	U
959-98-8	Endosulfan I	1	0.00400	U
33213-65-9	Endosulfan II	1	0.00400	U
1031-07-8	Endosulfan sulfate	1	0.00400	U
72-20-8	Endrin	1	0.00400	U
7421-93-4	Endrin aldehyde	1	0.0100	U
53494-70-5	Endrin ketone	1	0.0100	U
58-89-9	gamma-BHC (Lindane)	1	0.00400	U
5566-34-7	gamma-Chlordane	1	0.0100	U
76-44-8	Heptachlor	1	0.00400	U
1024-57-3	Heptachlor epoxide	1	0.00400	U
72-43-5	Methoxychlor	1	0.00400	U
8001-35-2	Toxaphene	1	0.100	U
57-74-9	Chlordane, total	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.138	69.0	30 - 150	
Tetrachloro-m-xylene	0.200	0.172	85.8	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	P1147789.D
Sampled:	06/07/24 12:15	Prepared:	06/08/24 07:04	Analyzed:	06/09/24 15:18
Solids:	91.85	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BF40520	Sequence:	S4F1108	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0723	0.0524	72.5	30 - 120	
Decachlorobiphenyl	0.0723	0.0322	44.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	P1147790.D
Sampled:	06/07/24 12:30	Prepared:	06/08/24 07:04	Analyzed:	06/09/24 15:31
Solids:	92.08	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BF40520	Sequence:	S4F1108	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0717	0.0584	81.5	30 - 120	
Decachlorobiphenyl	0.0717	0.0362	50.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	P1147791.D
Sampled:	06/07/24 12:25	Prepared:	06/08/24 07:04	Analyzed:	06/09/24 15:45
Solids:	91.70	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BF40520	Sequence:	S4F1108	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0715	0.0568	79.5	30 - 120	
Decachlorobiphenyl	0.0715	0.0418	58.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	P1147792.D
Sampled:	06/07/24 12:20	Prepared:	06/08/24 07:04	Analyzed:	06/09/24 15:59
Solids:	93.12	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BF40520	Sequence:	S4F1108	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0706	0.0459	65.0	30 - 120	
Decachlorobiphenyl	0.0706	0.0300	42.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	P1147793.D
Sampled:	06/07/24 12:35	Prepared:	06/08/24 07:04	Analyzed:	06/09/24 16:12
Solids:	92.36	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BF40520	Sequence:	S4F1108	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0710	0.0518	73.0	30 - 120	
Decachlorobiphenyl	0.0710	0.0366	51.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	P1147871.D
Sampled:	06/07/24 14:05	Prepared:	06/09/24 07:14	Analyzed:	06/10/24 21:05
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BF40536	Sequence:	S4F1043	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.164	82.0	30 - 120	
Decachlorobiphenyl	0.200	0.174	87.0	30 - 120	

* Values outside of QC limits

Metals
Method 6020

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

EB_060724

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Water Laboratory ID: 24F0520-07 File ID: QBIMX061024B-038

Sampled: 06/07/24 14:05 Prepared: 06/10/24 08:35 Analyzed: 06/10/24 15:01

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF40579 Sequence: S4F1034 Calibration: 06/10/24 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.00147	1		EPA 6020B
7440-38-2	Arsenic	0.00111	1	U	EPA 6020B
7440-41-7	Beryllium	0.000333	1	U	EPA 6020B
7440-43-9	Cadmium	0.000556	1	U	EPA 6020B
7782-49-2	Selenium	0.00111	1	U	EPA 6020B
7440-28-0	Thallium	0.00111	1	U	EPA 6020B

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-01 File ID: QBICP2-061224ARE_1-016

Sampled: 06/07/24 12:15 Prepared: 06/11/24 13:56 Analyzed: 06/12/24 10:31

Solids: 91.85 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40693 Sequence: S4F1217 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5660	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	2.33	1		EPA 6010D
7440-39-3	Barium	38.9	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	1310	1		EPA 6010D
7440-47-3	Chromium	13.2	1		EPA 6010D
7440-48-4	Cobalt	4.37	1		EPA 6010D
7440-50-8	Copper	14.8	1		EPA 6010D
7439-89-6	Iron	10600	1		EPA 6010D
7439-92-1	Lead	8.74	1		EPA 6010D
7439-95-4	Magnesium	1630	1		EPA 6010D
7439-96-5	Manganese	327	1		EPA 6010D
7440-02-0	Nickel	10.1	1		EPA 6010D
7440-09-7	Potassium	823	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.457	1	U	EPA 6010D
7440-23-5	Sodium	105	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	17.9	1		EPA 6010D
7440-66-6	Zinc	23.8	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-13

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-02 File ID: QBICP2-061224ARE_1-017

Sampled: 06/07/24 12:30 Prepared: 06/11/24 13:56 Analyzed: 06/12/24 10:34

Solids: 92.08 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40693 Sequence: S4F1217 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5820	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	2.29	1		EPA 6010D
7440-39-3	Barium	37.8	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.272	1	U	EPA 6010D
7440-70-2	Calcium	1360	1		EPA 6010D
7440-47-3	Chromium	14.8	1		EPA 6010D
7440-48-4	Cobalt	4.50	1		EPA 6010D
7440-50-8	Copper	21.3	1		EPA 6010D
7439-89-6	Iron	10300	1		EPA 6010D
7439-92-1	Lead	12.3	1		EPA 6010D
7439-95-4	Magnesium	2340	1		EPA 6010D
7439-96-5	Manganese	291	1		EPA 6010D
7440-02-0	Nickel	10.3	1		EPA 6010D
7440-09-7	Potassium	1040	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.456	1	U	EPA 6010D
7440-23-5	Sodium	127	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	20.0	1		EPA 6010D
7440-66-6	Zinc	24.5	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-62

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-03 File ID: QBICP2-061224ARE_1-018

Sampled: 06/07/24 12:25 Prepared: 06/11/24 13:56 Analyzed: 06/12/24 10:36

Solids: 91.70 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40693 Sequence: S4F1217 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5820	1		EPA 6010D
7440-36-0	Antimony	2.27	1	U	EPA 6010D
7440-38-2	Arsenic	1.90	1		EPA 6010D
7440-39-3	Barium	37.0	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.273	1	U	EPA 6010D
7440-70-2	Calcium	2360	1		EPA 6010D
7440-47-3	Chromium	13.1	1		EPA 6010D
7440-48-4	Cobalt	4.42	1		EPA 6010D
7440-50-8	Copper	15.0	1		EPA 6010D
7439-89-6	Iron	10400	1		EPA 6010D
7439-92-1	Lead	8.98	1		EPA 6010D
7439-95-4	Magnesium	1790	1		EPA 6010D
7439-96-5	Manganese	278	1		EPA 6010D
7440-02-0	Nickel	9.48	1		EPA 6010D
7440-09-7	Potassium	899	1		EPA 6010D
7782-49-2	Selenium	2.27	1	U	EPA 6010D
7440-22-4	Silver	0.458	1	U	EPA 6010D
7440-23-5	Sodium	159	1		EPA 6010D
7440-28-0	Thallium	2.27	1	U	EPA 6010D
7440-62-2	Vanadium	18.6	1		EPA 6010D
7440-66-6	Zinc	27.3	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-33

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-04 File ID: QBICP2-061224ARE_1-021

Sampled: 06/07/24 12:20 Prepared: 06/11/24 13:56 Analyzed: 06/12/24 10:45

Solids: 93.12 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40693 Sequence: S4F1217 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5960	1		EPA 6010D
7440-36-0	Antimony	2.24	1	U	EPA 6010D
7440-38-2	Arsenic	2.52	1		EPA 6010D
7440-39-3	Barium	38.5	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.268	1	U	EPA 6010D
7440-70-2	Calcium	1350	1		EPA 6010D
7440-47-3	Chromium	12.4	1		EPA 6010D
7440-48-4	Cobalt	4.42	1		EPA 6010D
7440-50-8	Copper	14.6	1		EPA 6010D
7439-89-6	Iron	9810	1		EPA 6010D
7439-92-1	Lead	12.8	1		EPA 6010D
7439-95-4	Magnesium	1980	1		EPA 6010D
7439-96-5	Manganese	263	1		EPA 6010D
7440-02-0	Nickel	9.91	1		EPA 6010D
7440-09-7	Potassium	1100	1		EPA 6010D
7782-49-2	Selenium	2.24	1	U	EPA 6010D
7440-22-4	Silver	0.451	1	U	EPA 6010D
7440-23-5	Sodium	136	1		EPA 6010D
7440-28-0	Thallium	2.24	1	U	EPA 6010D
7440-62-2	Vanadium	17.4	1		EPA 6010D
7440-66-6	Zinc	23.4	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-34

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-05 File ID: QBICP2-061224ARE_1-022

Sampled: 06/07/24 12:35 Prepared: 06/11/24 13:56 Analyzed: 06/12/24 10:48

Solids: 92.36 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40693 Sequence: S4F1217 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5260	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	2.03	1		EPA 6010D
7440-39-3	Barium	33.8	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	1320	1		EPA 6010D
7440-47-3	Chromium	10.2	1		EPA 6010D
7440-48-4	Cobalt	4.01	1		EPA 6010D
7440-50-8	Copper	13.5	1		EPA 6010D
7439-89-6	Iron	9460	1		EPA 6010D
7439-92-1	Lead	4.39	1		EPA 6010D
7439-95-4	Magnesium	1720	1		EPA 6010D
7439-96-5	Manganese	261	1		EPA 6010D
7440-02-0	Nickel	9.44	1		EPA 6010D
7440-09-7	Potassium	866	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.455	1	U	EPA 6010D
7440-23-5	Sodium	121	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	17.3	1		EPA 6010D
7440-66-6	Zinc	18.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EB_060724

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Water Laboratory ID: 24F0520-07 File ID: QBICP2-061224BRE_1-029

Sampled: 06/07/24 14:05 Prepared: 06/10/24 08:31 Analyzed: 06/12/24 13:45

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF40578 Sequence: S4F1239 Calibration: 06/12/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.295	1		EPA 6010D
7440-39-3	Barium	0.0278	1	U	EPA 6010D
7440-70-2	Calcium	0.894	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7439-89-6	Iron	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	0.0556	1	U	EPA 6010D
7439-96-5	Manganese	0.00556	1	U	EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	0.109	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D
7440-23-5	Sodium	0.556	1	U	EPA 6010D
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.0278	1	U	EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	
Sampled:	06/07/24 12:15	Prepared:	06/08/24 10:23	Analyzed:	06/10/24 15:20
Solids:	91.85	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40528	Sequence:	S4F1035	Calibration:	06/10/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0327	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-13

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-02	File ID:	
Sampled:	06/07/24 12:30	Prepared:	06/08/24 10:23	Analyzed:	06/10/24 15:20
Solids:	92.08	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40528	Sequence:	S4F1035	Calibration:	06/10/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-62

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-03	File ID:	
Sampled:	06/07/24 12:25	Prepared:	06/08/24 10:23	Analyzed:	06/10/24 15:20
Solids:	91.70	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40528	Sequence:	S4F1035	Calibration:	06/10/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0327	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	
Sampled:	06/07/24 12:20	Prepared:	06/08/24 10:23	Analyzed:	06/10/24 15:20
Solids:	93.12	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40528	Sequence:	S4F1035	Calibration:	06/10/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0322	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-34

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-05	File ID:	
Sampled:	06/07/24 12:35	Prepared:	06/08/24 10:23	Analyzed:	06/10/24 15:20
Solids:	92.36	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40528	Sequence:	S4F1035	Calibration:	06/10/24 1
Instrument:	DMA 80-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

Mercury
Method 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

EB_060724

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0520-07	File ID:	QBHg06102024A-065
Sampled:	06/07/24 14:05	Prepared:	06/11/24 08:27	Analyzed:	06/11/24 08:27
Solids:	0.00	Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL
Batch:	BF40663	Sequence:		Calibration:	06/11/24 0
Instrument:	Buck 410				

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-12

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-01	File ID:	
Sampled:	06/07/24 12:15	Prepared:	06/10/24 07:41	Analyzed:	06/10/24 15:53
Solids:	91.85	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BF40559	Sequence:		Calibration:	06/10/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-13

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-02 File ID:

Sampled: 06/07/24 12:30 Prepared: 06/10/24 07:41 Analyzed: 06/10/24 15:53

Solids: 92.08 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40559 Sequence: Calibration: 06/10/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.1	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-62

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-03 File ID:

Sampled: 06/07/24 12:25 Prepared: 06/10/24 07:41 Analyzed: 06/10/24 15:53

Solids: 91.70 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40559 Sequence: Calibration: 06/10/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.7	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-33

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0520
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0520-04	File ID:	
Sampled:	06/07/24 12:20	Prepared:	06/10/24 07:41	Analyzed:	06/10/24 15:53
Solids:	93.12	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BF40559	Sequence:		Calibration:	06/10/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.1	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-34

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0520

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0520-05 File ID:

Sampled: 06/07/24 12:35 Prepared: 06/10/24 07:41 Analyzed: 06/10/24 15:53

Solids: 92.36 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40559 Sequence: Calibration: 06/10/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.4	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/22/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24F0520

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 07, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F0520-01	EP-12	Soil	06/07/2024	06/07/2024
24F0520-02	EP-13	Soil	06/07/2024	06/07/2024
24F0520-03	EP-62	Soil	06/07/2024	06/07/2024
24F0520-04	EP-33	Soil	06/07/2024	06/07/2024
24F0520-05	EP-34	Soil	06/07/2024	06/07/2024
24F0520-06	TB_060724	Water	06/07/2024	06/07/2024
24F0520-07	EB_060724	Water	06/07/2024	06/07/2024

Work Order Narrative

York Analytical Work Order No.: 24F0520

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 06/07/2024 7:50 PM

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{2.4}°C**

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.7}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-12	24F0520-01	Soil	06/07/2024 12:15 PM	06/07/2024 7:50 PM
EP-13	24F0520-02	Soil	06/07/2024 12:30 PM	06/07/2024 7:50 PM
EP-62	24F0520-03	Soil	06/07/2024 12:25 PM	06/07/2024 7:50 PM
EP-33	24F0520-04	Soil	06/07/2024 12:20 PM	06/07/2024 7:50 PM
EP-34	24F0520-05	Soil	06/07/2024 12:35 PM	06/07/2024 7:50 PM
TB_060724	24F0520-06	Water	06/07/2024 12:35 PM	06/07/2024 7:50 PM
EB_060724	24F0520-07	Water	06/07/2024 2:05 PM	06/07/2024 7:50 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3510C	EPA 8270D SIM
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
ARO	Preparation of WIPES for PEST/	EPA 8082A
METALS	EPA 3015A	EPA 6010D
METALS	EPA 3050B	EPA 6010D
METALS	EPA 3015A	EPA 6020B
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YORK Project No. 24F0520

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Yu & Associates	Company:	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:	Address:
Phone.: 201-773-9621	Phone.:	Phone.:
Contact: Sixuan Wang	Contact:	Contact:
E-mail: Swang@yu-associates.com	E-mail:	E-mail:

YOUR Project Number: 22254

YOUR Project Name: 43-25 52nd St

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day ✓
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
EP-12	S	6/7/24 12:15	TCL VOCs, TCL SVOCs, TAL Metals, Pest /PCBs	8 oz, vials	1, 4
EP-13		12:30			
EP-62		12:25			
EP-33		12:20			
EP-34		12:35			
TB-060524	W		TCL VOCs	vials	2
EB-060524	W	14:05	TCL VOCs, SVOCs, TAL Metals, Pest/PCBs	1L amber, 4 oz, vials	4, 1, 1

Comments: Rush TAT for VOCs, Metals only

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

Preservation: (check all that apply)

HCl ✓ MeOH ✓ HNO3 ✓ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company: Matthew O'Rourke / YU	Date/Time: 6/7/24 1315	1. Samples Received by / Company: [illegible]	Date/Time: 6/7/24 1315
2. Samples Received by / Company: YU	Date/Time: 6/7/24 14:30 5.2	3. Samples Relinquished by / Company: YU	Date/Time: 6/7/24 1800
4. Samples Relinquished by / Company: Ramon Rivera	Date/Time: 6/7/24 19:50	4. Samples Received by / Company:	Date/Time:

2. Samples Received by / Company: [illegible]	Date/Time: 6/7/24 1335 14:30	
3. Samples Received by / Company: Ramon Rivera	Date/Time: 6/7/24 1800	
Samples Received in LAB by: KMA	Date/Time: 6/7/24 19:50	Temperature: 3.7 Degrees C

DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24F0720

Sampling Date: June 10, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24F0720
Date: September 5, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-38	24F0720-02	Soil	X	X	X
EP-39	24F0720-04	Soil	X	X	X
EP-21	24F0720-05	Soil	X	X	X
EP-42	24F0720-06	Soil	X	X	X
TB-061024	24F0720-07	Water	X		

The sample delivery group (SDG) contained results for four soil samples and one trip blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); and 7473B (Mercury - Soils). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete. Samples 01 and 03 were cancelled per client request.
3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The results were acceptable.
6. Calibration Quality Control: VOA - The percent difference (%D) in one continuing calibration

(CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0720-02, 24F0720-04 to 24F0720-06	Acetone Acrolein Bromodichloromethane Bromomethane Dibromochloromethane Tetrachloroethylene	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0720-02, 24F0720-04 to 24F0720-06	1,2-Diphenylhydrazine 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 4-Nitrophenol Benzoic acid Bis(2-chloroisopropyl)ether Di-n-octyl phthalate Hexachlorobenzene Hexachlorocyclopentadiene Indeno(1,2,3-cd)pyrene Isophorone Nitrobenzene N-nitroso-di-n-propylamine	UJ

7. Laboratory Control Sample (LCS): VOA – The percent recovery (%R) for the LCS was below QC limits for Tetrachloroethylene which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0720-02, 24F0720-04 to 24F0720-06	Tetrachloroethylene	UJ

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Metals – The percent recoveries (%R) for the MS were outside of QC limits for several compounds which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0720-06	Magnesium Potassium	J+
	Aluminum Iron Manganese	J
	Antimony Silver	UJ

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Serial Dilution: Metals - The percent difference (%D) was above QC limits for several compounds which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0720-06	Calcium Iron Magnesium Manganese	J

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.
16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID: V2629577.D

Sampled: 06/10/24 15:05 Prepared: 06/12/24 09:00 Analyzed: 06/12/24 15:09

Solids: 92.13 Preparation: EPA 5035A Initial/Final: 4.56 g / 5 ml

Batch: BF40778 Sequence: S4F1320 Calibration: SF40005 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0060	U
71-55-6	1,1,1-Trichloroethane	1	0.0060	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0060	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0060	U
79-00-5	1,1,2-Trichloroethane	1	0.0060	U
75-34-3	1,1-Dichloroethane	1	0.0060	U
75-35-4	1,1-Dichloroethylene	1	0.0060	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0060	U
96-18-4	1,2,3-Trichloropropane	1	0.0060	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0060	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0060	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0060	U
106-93-4	1,2-Dibromoethane	1	0.0060	U
95-50-1	1,2-Dichlorobenzene	1	0.0060	U
107-06-2	1,2-Dichloroethane	1	0.0060	U
78-87-5	1,2-Dichloropropane	1	0.0060	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0060	U
541-73-1	1,3-Dichlorobenzene	1	0.0060	U
106-46-7	1,4-Dichlorobenzene	1	0.0060	U
123-91-1	1,4-Dioxane	1	0.12	U
78-93-3	2-Butanone	1	0.0060	U
591-78-6	2-Hexanone	1	0.0060	U
108-10-1	4-Methyl-2-pentanone	1	0.0060	U
67-64-1	Acetone	1	0.012	U J
107-02-8	Acrolein	1	0.012	U J
107-13-1	Acrylonitrile	1	0.0060	U
71-43-2	Benzene	1	0.0060	U
74-97-5	Bromochloromethane	1	0.0060	U
75-27-4	Bromodichloromethane	1	0.0060	U J
75-25-2	Bromoform	1	0.0060	U
74-83-9	Bromomethane	1	0.0060	U J
75-15-0	Carbon disulfide	1	0.0060	U
56-23-5	Carbon tetrachloride	1	0.0060	U
108-90-7	Chlorobenzene	1	0.0060	U
75-00-3	Chloroethane	1	0.0060	U
67-66-3	Chloroform	1	0.0060	U
74-87-3	Chloromethane	1	0.0060	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0060	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0060	U
110-82-7	Cyclohexane	1	0.0060	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID: V2629577.D

Sampled: 06/10/24 15:05 Prepared: 06/12/24 09:00 Analyzed: 06/12/24 15:09

Solids: 92.13 Preparation: EPA 5035A Initial/Final: 4.56 g / 5 ml

Batch: BF40778 Sequence: S4F1320 Calibration: SF40005 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0060	U J
74-95-3	Dibromomethane	1	0.0060	U
75-71-8	Dichlorodifluoromethane	1	0.0060	U
100-41-4	Ethyl Benzene	1	0.0060	U
87-68-3	Hexachlorobutadiene	1	0.0060	U
98-82-8	Isopropylbenzene	1	0.0060	U
79-20-9	Methyl acetate	1	0.0060	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0060	U
108-87-2	Methylcyclohexane	1	0.0060	U
75-09-2	Methylene chloride	1	0.012	U
104-51-8	n-Butylbenzene	1	0.0060	U
103-65-1	n-Propylbenzene	1	0.0060	U
95-47-6	o-Xylene	1	0.0060	U
179601-23-1	p- & m- Xylenes	1	0.012	U
99-87-6	p-Isopropyltoluene	1	0.0060	U
135-98-8	sec-Butylbenzene	1	0.0060	U
100-42-5	Styrene	1	0.0060	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0060	U
98-06-6	tert-Butylbenzene	1	0.0060	U
127-18-4	Tetrachloroethylene	1	0.0060	U J
108-88-3	Toluene	1	0.0060	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0060	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0060	U
79-01-6	Trichloroethylene	1	0.0060	U
75-69-4	Trichlorofluoromethane	1	0.0060	U
75-01-4	Vinyl Chloride	1	0.0060	U
1330-20-7	Xylenes, Total	1	0.018	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.8	102	77 - 125	
SURR: Toluene-d8	50.0	47.7	95.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.2	102	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	83046	5.897	82735	5.891	
ISTD: Chlorobenzene-d5	338527	8.952	342376	8.945	
ISTD: 1,2-Dichlorobenzene-d4	158343	11.957	158865	11.951	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-39

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-04	File ID:	V2629578.D
Sampled:	06/10/24 15:25	Prepared:	06/12/24 09:00	Analyzed:	06/12/24 15:36
Solids:	92.25	Preparation:	EPA 5035A	Initial/Final:	5.37 g / 5 ml
Batch:	BF40778	Sequence:	S4F1320	Calibration:	SF40005
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0050	U
71-55-6	1,1,1-Trichloroethane	1	0.0050	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0050	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0050	U
79-00-5	1,1,2-Trichloroethane	1	0.0050	U
75-34-3	1,1-Dichloroethane	1	0.0050	U
75-35-4	1,1-Dichloroethylene	1	0.0050	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0050	U
96-18-4	1,2,3-Trichloropropane	1	0.0050	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0050	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0050	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0050	U
106-93-4	1,2-Dibromoethane	1	0.0050	U
95-50-1	1,2-Dichlorobenzene	1	0.0050	U
107-06-2	1,2-Dichloroethane	1	0.0050	U
78-87-5	1,2-Dichloropropane	1	0.0050	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0050	U
541-73-1	1,3-Dichlorobenzene	1	0.0050	U
106-46-7	1,4-Dichlorobenzene	1	0.0050	U
123-91-1	1,4-Dioxane	1	0.10	U
78-93-3	2-Butanone	1	0.0050	U
591-78-6	2-Hexanone	1	0.0050	U
108-10-1	4-Methyl-2-pentanone	1	0.0050	U
67-64-1	Acetone	1	0.010	U J
107-02-8	Acrolein	1	0.010	U J
107-13-1	Acrylonitrile	1	0.0050	U
71-43-2	Benzene	1	0.0050	U
74-97-5	Bromochloromethane	1	0.0050	U
75-27-4	Bromodichloromethane	1	0.0050	U J
75-25-2	Bromoform	1	0.0050	U
74-83-9	Bromomethane	1	0.0050	U J
75-15-0	Carbon disulfide	1	0.0050	U
56-23-5	Carbon tetrachloride	1	0.0050	U
108-90-7	Chlorobenzene	1	0.0050	U
75-00-3	Chloroethane	1	0.0050	U
67-66-3	Chloroform	1	0.0050	U
74-87-3	Chloromethane	1	0.0050	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0050	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0050	U
110-82-7	Cyclohexane	1	0.0050	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-04 File ID: V2629578.D

Sampled: 06/10/24 15:25 Prepared: 06/12/24 09:00 Analyzed: 06/12/24 15:36

Solids: 92.25 Preparation: EPA 5035A Initial/Final: 5.37 g / 5 ml

Batch: BF40778 Sequence: S4F1320 Calibration: SF40005 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0050	U J
74-95-3	Dibromomethane	1	0.0050	U
75-71-8	Dichlorodifluoromethane	1	0.0050	U
100-41-4	Ethyl Benzene	1	0.0050	U
87-68-3	Hexachlorobutadiene	1	0.0050	U
98-82-8	Isopropylbenzene	1	0.0050	U
79-20-9	Methyl acetate	1	0.0050	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0050	U
108-87-2	Methylcyclohexane	1	0.0050	U
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0050	U
103-65-1	n-Propylbenzene	1	0.0050	U
95-47-6	o-Xylene	1	0.0050	U
179601-23-1	p- & m- Xylenes	1	0.010	U
99-87-6	p-Isopropyltoluene	1	0.0050	U
135-98-8	sec-Butylbenzene	1	0.0050	U
100-42-5	Styrene	1	0.0050	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0050	U
98-06-6	tert-Butylbenzene	1	0.0050	U
127-18-4	Tetrachloroethylene	1	0.0050	U J
108-88-3	Toluene	1	0.0050	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0050	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0050	U
79-01-6	Trichloroethylene	1	0.0050	U
75-69-4	Trichlorofluoromethane	1	0.0050	U
75-01-4	Vinyl Chloride	1	0.0050	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.2	102	77 - 125	
SURR: Toluene-d8	50.0	48.1	96.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.3	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	83808	5.897	82735	5.891	
ISTD: Chlorobenzene-d5	343924	8.952	342376	8.945	
ISTD: 1,2-Dichlorobenzene-d4	158899	11.957	158865	11.951	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 24F0720

Client: YU & Associates | Project: 22254 43-25 52nd Street

Matrix: Soil | Laboratory ID: 24F0720-05 | File ID: V2629579.D

Sampled: 06/10/24 15:35 | Prepared: 06/12/24 09:00 | Analyzed: 06/12/24 16:04

Solids: 92.19 | Preparation: EPA 5035A | Initial/Final: 5.83 g / 5 ml

Batch: BF40778 | Sequence: S4F1320 | Calibration: SF40005 | Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U
71-55-6	1,1,1-Trichloroethane	1	0.0047	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U
79-00-5	1,1,2-Trichloroethane	1	0.0047	U
75-34-3	1,1-Dichloroethane	1	0.0047	U
75-35-4	1,1-Dichloroethylene	1	0.0047	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U
96-18-4	1,2,3-Trichloropropane	1	0.0047	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0047	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U
106-93-4	1,2-Dibromoethane	1	0.0047	U
95-50-1	1,2-Dichlorobenzene	1	0.0047	U
107-06-2	1,2-Dichloroethane	1	0.0047	U
78-87-5	1,2-Dichloropropane	1	0.0047	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0047	U
541-73-1	1,3-Dichlorobenzene	1	0.0047	U
106-46-7	1,4-Dichlorobenzene	1	0.0047	U
123-91-1	1,4-Dioxane	1	0.093	U
78-93-3	2-Butanone	1	0.0047	U
591-78-6	2-Hexanone	1	0.0047	U
108-10-1	4-Methyl-2-pentanone	1	0.0047	U
67-64-1	Acetone	1	0.0093	U J
107-02-8	Acrolein	1	0.0093	U J
107-13-1	Acrylonitrile	1	0.0047	U
71-43-2	Benzene	1	0.0047	U
74-97-5	Bromochloromethane	1	0.0047	U
75-27-4	Bromodichloromethane	1	0.0047	U J
75-25-2	Bromoform	1	0.0047	U
74-83-9	Bromomethane	1	0.0047	U J
75-15-0	Carbon disulfide	1	0.0047	U
56-23-5	Carbon tetrachloride	1	0.0047	U
108-90-7	Chlorobenzene	1	0.0047	U
75-00-3	Chloroethane	1	0.0047	U
67-66-3	Chloroform	1	0.0047	U
74-87-3	Chloromethane	1	0.0047	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U
110-82-7	Cyclohexane	1	0.0047	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID: V2629579.D

Sampled: 06/10/24 15:35 Prepared: 06/12/24 09:00 Analyzed: 06/12/24 16:04

Solids: 92.19 Preparation: EPA 5035A Initial/Final: 5.83 g / 5 ml

Batch: BF40778 Sequence: S4F1320 Calibration: SF40005 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0047	U J
74-95-3	Dibromomethane	1	0.0047	U
75-71-8	Dichlorodifluoromethane	1	0.0047	U
100-41-4	Ethyl Benzene	1	0.0047	U
87-68-3	Hexachlorobutadiene	1	0.0047	U
98-82-8	Isopropylbenzene	1	0.0047	U
79-20-9	Methyl acetate	1	0.0047	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U
108-87-2	Methylcyclohexane	1	0.0047	U
75-09-2	Methylene chloride	1	0.0093	U
104-51-8	n-Butylbenzene	1	0.0047	U
103-65-1	n-Propylbenzene	1	0.0047	U
95-47-6	o-Xylene	1	0.0047	U
179601-23-1	p- & m- Xylenes	1	0.0093	U
99-87-6	p-Isopropyltoluene	1	0.0047	U
135-98-8	sec-Butylbenzene	1	0.0047	U
100-42-5	Styrene	1	0.0047	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U
98-06-6	tert-Butylbenzene	1	0.0047	U
127-18-4	Tetrachloroethylene	1	0.0047	U J
108-88-3	Toluene	1	0.0047	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U
79-01-6	Trichloroethylene	1	0.0047	U
75-69-4	Trichlorofluoromethane	1	0.0047	U
75-01-4	Vinyl Chloride	1	0.0047	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.1	102	77 - 125	
SURR: Toluene-d8	50.0	47.7	95.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.7	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	79158	5.897	82735	5.891	
ISTD: Chlorobenzene-d5	328990	8.952	342376	8.945	
ISTD: 1,2-Dichlorobenzene-d4	151252	11.963	158865	11.951	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	V2629580.D
Sampled:	06/10/24 15:40	Prepared:	06/12/24 09:00	Analyzed:	06/12/24 16:32
Solids:	92.47	Preparation:	EPA 5035A	Initial/Final:	6.22 g / 5 ml
Batch:	BF40778	Sequence:	S4F1320	Calibration:	SF40005
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0043	U
71-55-6	1,1,1-Trichloroethane	1	0.0043	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0043	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0043	U
79-00-5	1,1,2-Trichloroethane	1	0.0043	U
75-34-3	1,1-Dichloroethane	1	0.0043	U
75-35-4	1,1-Dichloroethylene	1	0.0043	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0043	U
96-18-4	1,2,3-Trichloropropane	1	0.0043	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0043	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0043	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0043	U
106-93-4	1,2-Dibromoethane	1	0.0043	U
95-50-1	1,2-Dichlorobenzene	1	0.0043	U
107-06-2	1,2-Dichloroethane	1	0.0043	U
78-87-5	1,2-Dichloropropane	1	0.0043	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0043	U
541-73-1	1,3-Dichlorobenzene	1	0.0043	U
106-46-7	1,4-Dichlorobenzene	1	0.0043	U
123-91-1	1,4-Dioxane	1	0.087	U
78-93-3	2-Butanone	1	0.0043	U
591-78-6	2-Hexanone	1	0.0043	U
108-10-1	4-Methyl-2-pentanone	1	0.0043	U
67-64-1	Acetone	1	0.0087	U J
107-02-8	Acrolein	1	0.0087	U J
107-13-1	Acrylonitrile	1	0.0043	U
71-43-2	Benzene	1	0.0043	U
74-97-5	Bromochloromethane	1	0.0043	U
75-27-4	Bromodichloromethane	1	0.0043	U J
75-25-2	Bromoform	1	0.0043	U
74-83-9	Bromomethane	1	0.0043	U J
75-15-0	Carbon disulfide	1	0.0043	U
56-23-5	Carbon tetrachloride	1	0.0043	U
108-90-7	Chlorobenzene	1	0.0043	U
75-00-3	Chloroethane	1	0.0043	U
67-66-3	Chloroform	1	0.0043	U
74-87-3	Chloromethane	1	0.0043	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0043	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0043	U
110-82-7	Cyclohexane	1	0.0043	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-42

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-06 File ID: V2629580.D

Sampled: 06/10/24 15:40 Prepared: 06/12/24 09:00 Analyzed: 06/12/24 16:32

Solids: 92.47 Preparation: EPA 5035A Initial/Final: 6.22 g / 5 ml

Batch: BF40778 Sequence: S4F1320 Calibration: SF40005 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0043	U J
74-95-3	Dibromomethane	1	0.0043	U
75-71-8	Dichlorodifluoromethane	1	0.0043	U
100-41-4	Ethyl Benzene	1	0.0043	U
87-68-3	Hexachlorobutadiene	1	0.0043	U
98-82-8	Isopropylbenzene	1	0.0043	U
79-20-9	Methyl acetate	1	0.0043	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0043	U
108-87-2	Methylcyclohexane	1	0.0043	U
75-09-2	Methylene chloride	1	0.0087	U
104-51-8	n-Butylbenzene	1	0.0043	U
103-65-1	n-Propylbenzene	1	0.0043	U
95-47-6	o-Xylene	1	0.0043	U
179601-23-1	p- & m- Xylenes	1	0.0087	U
99-87-6	p-Isopropyltoluene	1	0.0043	U
135-98-8	sec-Butylbenzene	1	0.0043	U
100-42-5	Styrene	1	0.0043	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0043	U
98-06-6	tert-Butylbenzene	1	0.0043	U
127-18-4	Tetrachloroethylene	1	0.0043	U J
108-88-3	Toluene	1	0.0043	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0043	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0043	U
79-01-6	Trichloroethylene	1	0.0043	U
75-69-4	Trichlorofluoromethane	1	0.0043	U
75-01-4	Vinyl Chloride	1	0.0043	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.4	101	77 - 125	
SURR: Toluene-d8	50.0	47.8	95.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.6	101	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	71727	5.897	82735	5.891	
ISTD: Chlorobenzene-d5	291900	8.952	342376	8.945	
ISTD: 1,2-Dichlorobenzene-d4	140531	11.957	158865	11.951	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_061024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0720-07	File ID:	V855571.D
Sampled:	06/10/24 15:40	Prepared:	06/13/24 03:00	Analyzed:	06/13/24 16:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40891	Sequence:	S4F1413	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_061024

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0720-07	File ID:	V855571.D
Sampled:	06/10/24 15:40	Prepared:	06/13/24 03:00	Analyzed:	06/13/24 16:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40891	Sequence:	S4F1413	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	9.38	93.8	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.79	97.9	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	351131	5.577	365096	5.577	
ISTD: Chlorobenzene-d5	1839156	8.594	1868476	8.594	
ISTD: 1,2-Dichlorobenzene-d4	864200	11.581	887270	11.575	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID: SV62856.D

Sampled: 06/10/24 15:05 Prepared: 06/12/24 12:17 Analyzed: 06/13/24 12:01

Solids: 92.13 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BF40788 Sequence: S4F1416 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0893	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0893	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0893	U
88-06-2	2,4,6-Trichlorophenol	2	0.0893	U
120-83-2	2,4-Dichlorophenol	2	0.0893	U
105-67-9	2,4-Dimethylphenol	2	0.0893	U
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0893	U
606-20-2	2,6-Dinitrotoluene	2	0.0893	U
91-58-7	2-Chloronaphthalene	2	0.0893	U
95-57-8	2-Chlorophenol	2	0.0893	U
91-57-6	2-Methylnaphthalene	2	0.0893	U
95-48-7	2-Methylphenol	2	0.0893	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0893	U
65794-96-9	3- & 4-Methylphenols	2	0.0893	U
91-94-1	3,3-Dichlorobenzidine	2	0.0893	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0893	U
59-50-7	4-Chloro-3-methylphenol	2	0.0893	U
106-47-8	4-Chloroaniline	2	0.0893	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0893	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U J
83-32-9	Acenaphthene	2	0.0893	U
208-96-8	Acenaphthylene	2	0.0893	U
98-86-2	Acetophenone	2	0.0893	U
62-53-3	Aniline	2	0.358	U
120-12-7	Anthracene	2	0.0893	U
1912-24-9	Atrazine	2	0.0893	U
100-52-7	Benzaldehyde	2	0.0893	U
92-87-5	Benzidine	2	0.358	U
56-55-3	Benzo(a)anthracene	2	0.0893	U
50-32-8	Benzo(a)pyrene	2	0.0893	U
205-99-2	Benzo(b)fluoranthene	2	0.0893	U
191-24-2	Benzo(g,h,i)perylene	2	0.0893	U
207-08-9	Benzo(k)fluoranthene	2	0.0893	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-38

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-02	File ID:	SV62856.D
Sampled:	06/10/24 15:05	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 12:01
Solids:	92.13	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0893	U J
100-51-6	Benzyl alcohol	2	0.0893	U
85-68-7	Benzyl butyl phthalate	2	0.0893	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0893	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0893	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0893	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0893	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0893	U
218-01-9	Chrysene	2	0.0893	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0893	U
132-64-9	Dibenzofuran	2	0.0893	U
84-66-2	Diethyl phthalate	2	0.0893	U
131-11-3	Dimethyl phthalate	2	0.0893	U
84-74-2	Di-n-butyl phthalate	2	0.0893	U
117-84-0	Di-n-octyl phthalate	2	0.0893	U J
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0893	U
86-73-7	Fluorene	2	0.0893	U
118-74-1	Hexachlorobenzene	2	0.0893	U J
87-68-3	Hexachlorobutadiene	2	0.0893	U
77-47-4	Hexachlorocyclopentadiene	2	0.0893	U J
67-72-1	Hexachloroethane	2	0.0893	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0893	U J
78-59-1	Isophorone	2	0.0893	U J
91-20-3	Naphthalene	2	0.0893	U
98-95-3	Nitrobenzene	2	0.0893	U J
62-75-9	N-Nitrosodimethylamine	2	0.0893	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0893	U J
86-30-6	N-Nitrosodiphenylamine	2	0.0893	U
87-86-5	Pentachlorophenol	2	0.0893	U
85-01-8	Phenanthrene	2	0.0893	U
108-95-2	Phenol	2	0.0893	U
129-00-0	Pyrene	2	0.0893	U
110-86-1	Pyridine	2	0.358	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.79	1.41	79.2	20 - 108	
SURR: Phenol-d6	1.79	1.25	70.2	23 - 114	
SURR: Nitrobenzene-d5	0.893	0.619	69.4	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-38

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-02	File ID:	SV62856.D
Sampled:	06/10/24 15:05	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 12:01
Solids:	92.13	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.893	0.735	82.3	21 - 113	
SURR: 2,4,6-Tribromophenol	1.79	1.55	87.0	19 - 110	
SURR: Terphenyl-d14	0.893	0.732	82.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	605947	5.07	803227	5.07	
ISTD: Naphthalene-d8	2279225	6.01	3262760	6.01	
ISTD: Acenaphthene-d10	1375378	7.59	1830611	7.59	
ISTD: Phenanthrene-d10	2621480	9.63	3498462	9.64	
ISTD: Chrysene-d12	2805937	15.12	3844769	15.13	
ISTD: Perylene-d12	3872925	18.25	5421197	18.26	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-39

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-04	File ID:	SV62857.D
Sampled:	06/10/24 15:25	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 12:32
Solids:	92.25	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0889	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0889	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U
95-95-4	2,4,5-Trichlorophenol	2	0.0889	U
88-06-2	2,4,6-Trichlorophenol	2	0.0889	U
120-83-2	2,4-Dichlorophenol	2	0.0889	U
105-67-9	2,4-Dimethylphenol	2	0.0889	U
51-28-5	2,4-Dinitrophenol	2	0.178	U J
121-14-2	2,4-Dinitrotoluene	2	0.0889	U
606-20-2	2,6-Dinitrotoluene	2	0.0889	U
91-58-7	2-Chloronaphthalene	2	0.0889	U
95-57-8	2-Chlorophenol	2	0.0889	U
91-57-6	2-Methylnaphthalene	2	0.0889	U
95-48-7	2-Methylphenol	2	0.0889	U
88-74-4	2-Nitroaniline	2	0.178	U
88-75-5	2-Nitrophenol	2	0.0889	U
65794-96-9	3- & 4-Methylphenols	2	0.0889	U
91-94-1	3,3-Dichlorobenzidine	2	0.0889	U
99-09-2	3-Nitroaniline	2	0.178	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.178	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0889	U
59-50-7	4-Chloro-3-methylphenol	2	0.0889	U
106-47-8	4-Chloroaniline	2	0.0889	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0889	U
100-01-6	4-Nitroaniline	2	0.178	U
100-02-7	4-Nitrophenol	2	0.178	U J
83-32-9	Acenaphthene	2	0.0889	U
208-96-8	Acenaphthylene	2	0.0889	U
98-86-2	Acetophenone	2	0.0889	U
62-53-3	Aniline	2	0.356	U
120-12-7	Anthracene	2	0.0889	U
1912-24-9	Atrazine	2	0.0889	U
100-52-7	Benzaldehyde	2	0.0889	U
92-87-5	Benzidine	2	0.356	U
56-55-3	Benzo(a)anthracene	2	0.0889	U
50-32-8	Benzo(a)pyrene	2	0.0889	U
205-99-2	Benzo(b)fluoranthene	2	0.0889	U
191-24-2	Benzo(g,h,i)perylene	2	0.0889	U
207-08-9	Benzo(k)fluoranthene	2	0.0889	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 24F0720

Client: YU & Associates | Project: 22254 43-25 52nd Street

Matrix: Soil | Laboratory ID: 24F0720-04 | File ID: SV62857.D

Sampled: 06/10/24 15:25 | Prepared: 06/12/24 12:17 | Analyzed: 06/13/24 12:32

Solids: 92.25 | Preparation: EPA 3550C | Initial/Final: 30.5 g / 1 mL

Batch: BF40788 | Sequence: S4F1416 | Calibration: SD40038 | Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0889	U J
100-51-6	Benzyl alcohol	2	0.0889	U
85-68-7	Benzyl butyl phthalate	2	0.0889	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0889	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0889	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0889	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0889	U
105-60-2	Caprolactam	2	0.178	U
86-74-8	Carbazole	2	0.0889	U
218-01-9	Chrysene	2	0.0889	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0889	U
132-64-9	Dibenzofuran	2	0.0889	U
84-66-2	Diethyl phthalate	2	0.0889	U
131-11-3	Dimethyl phthalate	2	0.0889	U
84-74-2	Di-n-butyl phthalate	2	0.0889	U
117-84-0	Di-n-octyl phthalate	2	0.0889	U J
122-39-4	Diphenylamine	2	0.178	U
206-44-0	Fluoranthene	2	0.0889	U
86-73-7	Fluorene	2	0.0889	U
118-74-1	Hexachlorobenzene	2	0.0889	U J
87-68-3	Hexachlorobutadiene	2	0.0889	U
77-47-4	Hexachlorocyclopentadiene	2	0.0889	U J
67-72-1	Hexachloroethane	2	0.0889	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0889	U J
78-59-1	Isophorone	2	0.0889	U J
91-20-3	Naphthalene	2	0.0889	U
98-95-3	Nitrobenzene	2	0.0889	U J
62-75-9	N-Nitrosodimethylamine	2	0.0889	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0889	U J
86-30-6	N-Nitrosodiphenylamine	2	0.0889	U
87-86-5	Pentachlorophenol	2	0.0889	U
85-01-8	Phenanthrene	2	0.0889	U
108-95-2	Phenol	2	0.0889	U
129-00-0	Pyrene	2	0.0889	U
110-86-1	Pyridine	2	0.356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	1.52	85.4	20 - 108	
SURR: Phenol-d6	1.78	1.38	77.5	23 - 114	
SURR: Nitrobenzene-d5	0.888	0.689	77.5	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-39

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-04	File ID:	SV62857.D
Sampled:	06/10/24 15:25	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 12:32
Solids:	92.25	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.888	0.802	90.3	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	1.75	98.5	19 - 110	
SURR: Terphenyl-d14	0.888	0.807	90.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	685846	5.07	803227	5.07	
ISTD: Naphthalene-d8	2525284	6.01	3262760	6.01	
ISTD: Acenaphthene-d10	1519115	7.59	1830611	7.59	
ISTD: Phenanthrene-d10	2889097	9.63	3498462	9.64	
ISTD: Chrysene-d12	2994604	15.12	3844769	15.13	
ISTD: Perylene-d12	4066051	18.25	5421197	18.26	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID: SV62858.D

Sampled: 06/10/24 15:35 Prepared: 06/12/24 12:17 Analyzed: 06/13/24 13:02

Solids: 92.19 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40788 Sequence: S4F1416 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0902	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0902	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U
95-95-4	2,4,5-Trichlorophenol	2	0.0902	U
88-06-2	2,4,6-Trichlorophenol	2	0.0902	U
120-83-2	2,4-Dichlorophenol	2	0.0902	U
105-67-9	2,4-Dimethylphenol	2	0.0902	U
51-28-5	2,4-Dinitrophenol	2	0.180	U J
121-14-2	2,4-Dinitrotoluene	2	0.0902	U
606-20-2	2,6-Dinitrotoluene	2	0.0902	U
91-58-7	2-Chloronaphthalene	2	0.0902	U
95-57-8	2-Chlorophenol	2	0.0902	U
91-57-6	2-Methylnaphthalene	2	0.0902	U
95-48-7	2-Methylphenol	2	0.0902	U
88-74-4	2-Nitroaniline	2	0.180	U
88-75-5	2-Nitrophenol	2	0.0902	U
65794-96-9	3- & 4-Methylphenols	2	0.0902	U
91-94-1	3,3-Dichlorobenzidine	2	0.0902	U
99-09-2	3-Nitroaniline	2	0.180	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0902	U
59-50-7	4-Chloro-3-methylphenol	2	0.0902	U
106-47-8	4-Chloroaniline	2	0.0902	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0902	U
100-01-6	4-Nitroaniline	2	0.180	U
100-02-7	4-Nitrophenol	2	0.180	U J
83-32-9	Acenaphthene	2	0.0902	U
208-96-8	Acenaphthylene	2	0.0902	U
98-86-2	Acetophenone	2	0.0902	U
62-53-3	Aniline	2	0.361	U
120-12-7	Anthracene	2	0.0902	U
1912-24-9	Atrazine	2	0.0902	U
100-52-7	Benzaldehyde	2	0.0902	U
92-87-5	Benzidine	2	0.361	U
56-55-3	Benzo(a)anthracene	2	0.0902	U
50-32-8	Benzo(a)pyrene	2	0.0902	U
205-99-2	Benzo(b)fluoranthene	2	0.0902	U
191-24-2	Benzo(g,h,i)perylene	2	0.0902	U
207-08-9	Benzo(k)fluoranthene	2	0.0902	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID: SV62858.D

Sampled: 06/10/24 15:35 Prepared: 06/12/24 12:17 Analyzed: 06/13/24 13:02

Solids: 92.19 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BF40788 Sequence: S4F1416 Calibration: SD40038 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0902	U J
100-51-6	Benzyl alcohol	2	0.0902	U
85-68-7	Benzyl butyl phthalate	2	0.0454	JD
111-91-1	Bis(2-chloroethoxy)methane	2	0.0902	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0902	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0902	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0902	U
105-60-2	Caprolactam	2	0.180	U
86-74-8	Carbazole	2	0.0902	U
218-01-9	Chrysene	2	0.0902	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0902	U
132-64-9	Dibenzofuran	2	0.0902	U
84-66-2	Diethyl phthalate	2	0.0902	U
131-11-3	Dimethyl phthalate	2	0.0902	U
84-74-2	Di-n-butyl phthalate	2	0.0902	U
117-84-0	Di-n-octyl phthalate	2	0.0902	U J
122-39-4	Diphenylamine	2	0.180	U
206-44-0	Fluoranthene	2	0.0902	U
86-73-7	Fluorene	2	0.0902	U
118-74-1	Hexachlorobenzene	2	0.0902	U J
87-68-3	Hexachlorobutadiene	2	0.0902	U
77-47-4	Hexachlorocyclopentadiene	2	0.0902	U J
67-72-1	Hexachloroethane	2	0.0902	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0902	U J
78-59-1	Isophorone	2	0.0902	U J
91-20-3	Naphthalene	2	0.0902	U
98-95-3	Nitrobenzene	2	0.0902	U J
62-75-9	N-Nitrosodimethylamine	2	0.0902	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0902	U J
86-30-6	N-Nitrosodiphenylamine	2	0.0902	U
87-86-5	Pentachlorophenol	2	0.0902	U
85-01-8	Phenanthrene	2	0.0902	U
108-95-2	Phenol	2	0.0902	U
129-00-0	Pyrene	2	0.0902	U
110-86-1	Pyridine	2	0.361	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	1.68	93.1	20 - 108	
SURR: Phenol-d6	1.80	1.55	85.8	23 - 114	
SURR: Nitrobenzene-d5	0.901	0.763	84.7	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-21

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-05	File ID:	SV62858.D
Sampled:	06/10/24 15:35	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 13:02
Solids:	92.19	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.901	0.856	95.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	1.94	108	19 - 110	
SURR: Terphenyl-d14	0.901	0.934	104	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	736200	5.07	803227	5.07	
ISTD: Naphthalene-d8	2767938	6.01	3262760	6.01	
ISTD: Acenaphthene-d10	1718651	7.59	1830611	7.59	
ISTD: Phenanthrene-d10	3193633	9.63	3498462	9.64	
ISTD: Chrysene-d12	3327402	15.12	3844769	15.13	
ISTD: Perylene-d12	4521998	18.25	5421197	18.26	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	SV62859.D
Sampled:	06/10/24 15:40	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 13:32
Solids:	92.47	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0887	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.177	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0887	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.177	U
95-95-4	2,4,5-Trichlorophenol	2	0.0887	U
88-06-2	2,4,6-Trichlorophenol	2	0.0887	U
120-83-2	2,4-Dichlorophenol	2	0.0887	U
105-67-9	2,4-Dimethylphenol	2	0.0887	U
51-28-5	2,4-Dinitrophenol	2	0.177	U J
121-14-2	2,4-Dinitrotoluene	2	0.0887	U
606-20-2	2,6-Dinitrotoluene	2	0.0887	U
91-58-7	2-Chloronaphthalene	2	0.0887	U
95-57-8	2-Chlorophenol	2	0.0887	U
91-57-6	2-Methylnaphthalene	2	0.0887	U
95-48-7	2-Methylphenol	2	0.0887	U
88-74-4	2-Nitroaniline	2	0.177	U
88-75-5	2-Nitrophenol	2	0.0887	U
65794-96-9	3- & 4-Methylphenols	2	0.0887	U
91-94-1	3,3-Dichlorobenzidine	2	0.0887	U
99-09-2	3-Nitroaniline	2	0.177	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.177	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0887	U
59-50-7	4-Chloro-3-methylphenol	2	0.0887	U
106-47-8	4-Chloroaniline	2	0.0887	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0887	U
100-01-6	4-Nitroaniline	2	0.177	U
100-02-7	4-Nitrophenol	2	0.177	U J
83-32-9	Acenaphthene	2	0.0887	U
208-96-8	Acenaphthylene	2	0.0887	U
98-86-2	Acetophenone	2	0.0887	U
62-53-3	Aniline	2	0.355	U
120-12-7	Anthracene	2	0.0887	U
1912-24-9	Atrazine	2	0.0887	U
100-52-7	Benzaldehyde	2	0.0887	U
92-87-5	Benzidine	2	0.355	U
56-55-3	Benzo(a)anthracene	2	0.0887	U
50-32-8	Benzo(a)pyrene	2	0.0887	U
205-99-2	Benzo(b)fluoranthene	2	0.0887	U
191-24-2	Benzo(g,h,i)perylene	2	0.0887	U
207-08-9	Benzo(k)fluoranthene	2	0.0887	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	SV62859.D
Sampled:	06/10/24 15:40	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 13:32
Solids:	92.47	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0887	U J
100-51-6	Benzyl alcohol	2	0.0887	U
85-68-7	Benzyl butyl phthalate	2	0.0887	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0887	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0887	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0887	U J
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0887	U
105-60-2	Caprolactam	2	0.177	U
86-74-8	Carbazole	2	0.0887	U
218-01-9	Chrysene	2	0.0887	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0887	U
132-64-9	Dibenzofuran	2	0.0887	U
84-66-2	Diethyl phthalate	2	0.0887	U
131-11-3	Dimethyl phthalate	2	0.0887	U
84-74-2	Di-n-butyl phthalate	2	0.0887	U
117-84-0	Di-n-octyl phthalate	2	0.0887	U J
122-39-4	Diphenylamine	2	0.177	U
206-44-0	Fluoranthene	2	0.0887	U
86-73-7	Fluorene	2	0.0887	U
118-74-1	Hexachlorobenzene	2	0.0887	U J
87-68-3	Hexachlorobutadiene	2	0.0887	U
77-47-4	Hexachlorocyclopentadiene	2	0.0887	U J
67-72-1	Hexachloroethane	2	0.0887	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0887	U J
78-59-1	Isophorone	2	0.0887	U J
91-20-3	Naphthalene	2	0.0887	U
98-95-3	Nitrobenzene	2	0.0887	U J
62-75-9	N-Nitrosodimethylamine	2	0.0887	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0887	U J
86-30-6	N-Nitrosodiphenylamine	2	0.0887	U
87-86-5	Pentachlorophenol	2	0.0887	U
85-01-8	Phenanthrene	2	0.0887	U
108-95-2	Phenol	2	0.0887	U
129-00-0	Pyrene	2	0.0887	U
110-86-1	Pyridine	2	0.355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.77	1.59	89.6	20 - 108	
SURR: Phenol-d6	1.77	1.44	81.1	23 - 114	
SURR: Nitrobenzene-d5	0.886	0.730	82.3	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	SV62859.D
Sampled:	06/10/24 15:40	Prepared:	06/12/24 12:17	Analyzed:	06/13/24 13:32
Solids:	92.47	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40788	Sequence:	S4F1416	Calibration:	SD40038
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.886	0.829	93.5	21 - 113	
SURR: 2,4,6-Tribromophenol	1.77	1.76	99.3	19 - 110	
SURR: Terphenyl-d14	0.886	0.829	93.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	748696	5.07	803227	5.07	
ISTD: Naphthalene-d8	2717621	6.01	3262760	6.01	
ISTD: Acenaphthene-d10	1653856	7.59	1830611	7.59	
ISTD: Phenanthrene-d10	3147810	9.63	3498462	9.64	
ISTD: Chrysene-d12	3263096	15.12	3844769	15.13	
ISTD: Perylene-d12	4361432	18.25	5421197	18.26	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID: P20521340.d

Sampled: 06/10/24 15:05 Prepared: 06/12/24 09:01 Analyzed: 06/13/24 14:57

Solids: 92.13 Preparation: EPA 3550C Initial/Final: 30.2 g / 10 mL

Batch: BF40759 Sequence: S4F1434 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0719	0.0558	77.7	30 - 150	
Tetrachloro-m-xylene	0.0719	0.0641	89.2	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-04 File ID: P20521341.d

Sampled: 06/10/24 15:25 Prepared: 06/12/24 09:01 Analyzed: 06/13/24 15:14

Solids: 92.25 Preparation: EPA 3550C Initial/Final: 30.2 g / 10 mL

Batch: BF40759 Sequence: S4F1434 Calibration: SE40014 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0718	0.0553	77.0	30 - 150	
Tetrachloro-m-xylene	0.0718	0.0615	85.7	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-21

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-05	File ID:	P20521342.d
Sampled:	06/10/24 15:35	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 15:30
Solids:	92.19	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1434	Calibration:	SE40014
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00178	U
72-55-9	4,4'-DDE	5	0.00178	U
50-29-3	4,4'-DDT	5	0.00178	U
309-00-2	Aldrin	5	0.00178	U
319-84-6	alpha-BHC	5	0.00178	U
5103-71-9	alpha-Chlordane	5	0.00178	U
319-85-7	beta-BHC	5	0.00178	U
319-86-8	delta-BHC	5	0.00178	U
60-57-1	Dieldrin	5	0.00178	U
959-98-8	Endosulfan I	5	0.00178	U
33213-65-9	Endosulfan II	5	0.00178	U
1031-07-8	Endosulfan sulfate	5	0.00178	U
72-20-8	Endrin	5	0.00178	U
7421-93-4	Endrin aldehyde	5	0.00178	U
53494-70-5	Endrin ketone	5	0.00178	U
58-89-9	gamma-BHC (Lindane)	5	0.00178	U
5566-34-7	gamma-Chlordane	5	0.00178	U
76-44-8	Heptachlor	5	0.00178	U
1024-57-3	Heptachlor epoxide	5	0.00178	U
72-43-5	Methoxychlor	5	0.00178	U
8001-35-2	Toxaphene	5	0.178	U
57-74-9	Chlordane, total	5	0.0356	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0718	0.0409	57.0	30 - 150	
Tetrachloro-m-xylene	0.0718	0.0454	63.2	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	P20521343.d
Sampled:	06/10/24 15:40	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 15:47
Solids:	92.47	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1434	Calibration:	SE40014
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00177	U
72-55-9	4,4'-DDE	5	0.00177	U
50-29-3	4,4'-DDT	5	0.00177	U
309-00-2	Aldrin	5	0.00177	U
319-84-6	alpha-BHC	5	0.00177	U
5103-71-9	alpha-Chlordane	5	0.00177	U
319-85-7	beta-BHC	5	0.00177	U
319-86-8	delta-BHC	5	0.00177	U
60-57-1	Dieldrin	5	0.00177	U
959-98-8	Endosulfan I	5	0.00177	U
33213-65-9	Endosulfan II	5	0.00177	U
1031-07-8	Endosulfan sulfate	5	0.00177	U
72-20-8	Endrin	5	0.00177	U
7421-93-4	Endrin aldehyde	5	0.00177	U
53494-70-5	Endrin ketone	5	0.00177	U
58-89-9	gamma-BHC (Lindane)	5	0.00177	U
5566-34-7	gamma-Chlordane	5	0.00177	U
76-44-8	Heptachlor	5	0.00177	U
1024-57-3	Heptachlor epoxide	5	0.00177	U
72-43-5	Methoxychlor	5	0.00177	U
8001-35-2	Toxaphene	5	0.177	U
57-74-9	Chlordane, total	5	0.0355	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0716	0.0441	61.6	30 - 150	
Tetrachloro-m-xylene	0.0716	0.0489	68.3	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-38

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-02	File ID:	P1148064.D
Sampled:	06/10/24 15:05	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 03:26
Solids:	92.13	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1222	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0719	0.0557	77.5	30 - 120	
Decachlorobiphenyl	0.0719	0.0385	53.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-39

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-04	File ID:	P1148065.D
Sampled:	06/10/24 15:25	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 03:40
Solids:	92.25	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1222	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0718	0.0542	75.5	30 - 120	
Decachlorobiphenyl	0.0718	0.0384	53.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-21

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-05	File ID:	P1148066.D
Sampled:	06/10/24 15:35	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 03:54
Solids:	92.19	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1222	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0718	0.0399	55.5	30 - 120	
Decachlorobiphenyl	0.0718	0.0305	42.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-42

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-06	File ID:	P1148067.D
Sampled:	06/10/24 15:40	Prepared:	06/12/24 09:01	Analyzed:	06/13/24 04:07
Solids:	92.47	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BF40759	Sequence:	S4F1222	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0179	U
11104-28-2	Aroclor 1221	1	0.0179	U
11141-16-5	Aroclor 1232	1	0.0179	U
53469-21-9	Aroclor 1242	1	0.0179	U
12672-29-6	Aroclor 1248	1	0.0179	U
11097-69-1	Aroclor 1254	1	0.0179	U
11096-82-5	Aroclor 1260	1	0.0179	U
1336-36-3	Total PCBs	1	0.0179	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0716	0.0433	60.5	30 - 120	
Decachlorobiphenyl	0.0716	0.0294	41.0	30 - 120	

* Values outside of QC limits

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID: QBICP2-061424ARE_1-013

Sampled: 06/10/24 15:05 Prepared: 06/13/24 13:40 Analyzed: 06/14/24 11:34

Solids: 92.13 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40880 Sequence: S4F1418 Calibration: 06/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4990	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.70	1		EPA 6010D
7440-39-3	Barium	36.1	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	2170	1		EPA 6010D
7440-47-3	Chromium	11.7	1		EPA 6010D
7440-48-4	Cobalt	3.73	1		EPA 6010D
7440-50-8	Copper	16.9	1		EPA 6010D
7439-89-6	Iron	9420	1		EPA 6010D
7439-92-1	Lead	5.93	1		EPA 6010D
7439-95-4	Magnesium	1900	1		EPA 6010D
7439-96-5	Manganese	328	1		EPA 6010D
7440-02-0	Nickel	9.74	1		EPA 6010D
7440-09-7	Potassium	930	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.456	1	U	EPA 6010D
7440-23-5	Sodium	160	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	17.0	1		EPA 6010D
7440-66-6	Zinc	18.8	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-04 File ID: QBICP2-061424ARE_1-014

Sampled: 06/10/24 15:25 Prepared: 06/13/24 13:40 Analyzed: 06/14/24 11:36

Solids: 92.25 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40880 Sequence: S4F1418 Calibration: 06/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	4290	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.79	1		EPA 6010D
7440-39-3	Barium	31.9	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	1300	1		EPA 6010D
7440-47-3	Chromium	9.20	1		EPA 6010D
7440-48-4	Cobalt	3.75	1		EPA 6010D
7440-50-8	Copper	21.2	1		EPA 6010D
7439-89-6	Iron	8090	1		EPA 6010D
7439-92-1	Lead	3.81	1		EPA 6010D
7439-95-4	Magnesium	1670	1		EPA 6010D
7439-96-5	Manganese	275	1		EPA 6010D
7440-02-0	Nickel	11.3	1		EPA 6010D
7440-09-7	Potassium	802	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.455	1	U	EPA 6010D
7440-23-5	Sodium	122	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	13.6	1		EPA 6010D
7440-66-6	Zinc	15.4	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID: QBICP2-061424ARE_1-077

Sampled: 06/10/24 15:35 Prepared: 06/13/24 15:09 Analyzed: 06/14/24 14:33

Solids: 92.19 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40893 Sequence: S4F1428 Calibration: 06/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5570	1		EPA 6010D
7440-36-0	Antimony	2.26	1	U	EPA 6010D
7440-38-2	Arsenic	1.84	1		EPA 6010D
7440-39-3	Barium	38.5	1		EPA 6010D
7440-41-7	Beryllium	0.046	1	U	EPA 6010D
7440-43-9	Cadmium	0.271	1	U	EPA 6010D
7440-70-2	Calcium	2430	1		EPA 6010D
7440-47-3	Chromium	11.3	1		EPA 6010D
7440-48-4	Cobalt	4.21	1		EPA 6010D
7440-50-8	Copper	12.8	1		EPA 6010D
7439-89-6	Iron	9120	1		EPA 6010D
7439-92-1	Lead	11.0	1		EPA 6010D
7439-95-4	Magnesium	2000	1		EPA 6010D
7439-96-5	Manganese	314	1		EPA 6010D
7440-02-0	Nickel	9.32	1		EPA 6010D
7440-09-7	Potassium	996	1		EPA 6010D
7782-49-2	Selenium	2.26	1	U	EPA 6010D
7440-22-4	Silver	0.456	1	U	EPA 6010D
7440-23-5	Sodium	122	1		EPA 6010D
7440-28-0	Thallium	2.26	1	U	EPA 6010D
7440-62-2	Vanadium	16.7	1		EPA 6010D
7440-66-6	Zinc	23.2	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-42

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-06 File ID: QBICP2-061424ARE_1-078

Sampled: 06/10/24 15:40 Prepared: 06/13/24 15:09 Analyzed: 06/14/24 14:35

Solids: 92.47 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40893 Sequence: S4F1428 Calibration: 06/14/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5160	1	J	EPA 6010D
7440-36-0	Antimony	2.25	1	U J	EPA 6010D
7440-38-2	Arsenic	1.87	1		EPA 6010D
7440-39-3	Barium	34.9	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.270	1	U	EPA 6010D
7440-70-2	Calcium	1300	1	J	EPA 6010D
7440-47-3	Chromium	10.4	1		EPA 6010D
7440-48-4	Cobalt	4.11	1		EPA 6010D
7440-50-8	Copper	17.1	1		EPA 6010D
7439-89-6	Iron	9310	1	J	EPA 6010D
7439-92-1	Lead	5.21	1		EPA 6010D
7439-95-4	Magnesium	1590	1	J+	EPA 6010D
7439-96-5	Manganese	256	1	J	EPA 6010D
7440-02-0	Nickel	9.02	1		EPA 6010D
7440-09-7	Potassium	928	1	J+	EPA 6010D
7782-49-2	Selenium	2.25	1	U	EPA 6010D
7440-22-4	Silver	0.454	1	U J	EPA 6010D
7440-23-5	Sodium	136	1		EPA 6010D
7440-28-0	Thallium	2.25	1	U	EPA 6010D
7440-62-2	Vanadium	15.3	1		EPA 6010D
7440-66-6	Zinc	17.7	1		EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-38

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0720
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0720-02	File ID:	
Sampled:	06/10/24 15:05	Prepared:	06/12/24 13:54	Analyzed:	06/13/24 15:11
Solids:	92.13	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40800	Sequence:	S4F1345	Calibration:	06/13/24 1
Instrument:	ICP5900-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0326	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-04 File ID:

Sampled: 06/10/24 15:25 Prepared: 06/12/24 13:54 Analyzed: 06/13/24 15:11

Solids: 92.25 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40800 Sequence: S4F1345 Calibration: 06/13/24 1 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID:

Sampled: 06/10/24 15:35 Prepared: 06/12/24 13:54 Analyzed: 06/13/24 15:11

Solids: 92.19 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40800 Sequence: S4F1345 Calibration: 06/13/24 1 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0325	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-42

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-06 File ID:

Sampled: 06/10/24 15:40 Prepared: 06/12/24 13:54 Analyzed: 06/13/24 15:11

Solids: 92.47 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40800 Sequence: S4F1345 Calibration: 06/13/24 1 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0324	1	U	EPA 7473

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-38

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-02 File ID:

Sampled: 06/10/24 15:05 Prepared: 06/12/24 07:30 Analyzed: 06/12/24 13:13

Solids: 92.13 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40732 Sequence: Calibration: 06/12/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.1	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-39

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-04 File ID:

Sampled: 06/10/24 15:25 Prepared: 06/12/24 07:30 Analyzed: 06/12/24 13:13

Solids: 92.25 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40732 Sequence: Calibration: 06/12/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-21

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-05 File ID:

Sampled: 06/10/24 15:35 Prepared: 06/12/24 07:30 Analyzed: 06/12/24 13:13

Solids: 92.19 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40732 Sequence: Calibration: 06/12/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-42

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0720

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0720-06 File ID:

Sampled: 06/10/24 15:40 Prepared: 06/12/24 07:30 Analyzed: 06/12/24 13:13

Solids: 92.47 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40732 Sequence: Calibration: 06/12/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.5	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/23/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24F0720

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 11, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F0720-02	EP-38	Soil	06/10/2024	06/11/2024
24F0720-04	EP-39	Soil	06/10/2024	06/11/2024
24F0720-05	EP-21	Soil	06/10/2024	06/11/2024
24F0720-06	EP-42	Soil	06/10/2024	06/11/2024
24F0720-07	TB_061024	Water	06/10/2024	06/11/2024

Work Order Narrative

York Analytical Work Order No.: 24F0720

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 06/11/2024 8:25 PM

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.1}°C**

7 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{4.5}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-17	24F0720-01	Soil	06/10/2024 3:00 PM	06/11/2024 8:25 PM
EP-38	24F0720-02	Soil	06/10/2024 3:05 PM	06/11/2024 8:25 PM
EP-18	24F0720-03	Soil	06/10/2024 3:20 PM	06/11/2024 8:25 PM
EP-39	24F0720-04	Soil	06/10/2024 3:25 PM	06/11/2024 8:25 PM
EP-21	24F0720-05	Soil	06/10/2024 3:35 PM	06/11/2024 8:25 PM
EP-42	24F0720-06	Soil	06/10/2024 3:40 PM	06/11/2024 8:25 PM
TB_061024	24F0720-07	Water	06/10/2024 3:40 PM	06/11/2024 8:25 PM

WorkOrder Comments

Per client request 6/11/24, samples -01 and -03 were cancelled.

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3550C	EPA 8270D
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 24F0720

Page 1 of 1

Report To:
Company: Yu & Associates
Address: 611 River Drive, Elmwood Park NJ 07407
Phone.: 201-873-7543
Contact: Chengyu Hang
E-mail: Chang@yu-associates.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: 22254

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TAL VOCs	TCL SVOCs	TAL Metals	Pest/PCBs	Grab or Comp.
EP-17	6/10/24	15:00	S		4	1								✓	✓	✓	✓	
EP-35		15:05												✓	✓	✓	✓	
EP-18		15:20												✓	✓	✓	✓	
EP-39		15:25												✓	✓	✓	✓	
EP-21		15:35												✓	✓	✓	✓	
EP-42		15:40												✓	✓	✓	✓	
TB-061024			W		2									✓				

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day ✓; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day); PFAS Standard 7-10 Day

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered; Lab Filtered

Comments: Rush TAT For VOCs, Metals only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Matthew O'Rourke / YU	Date/Time: 6/11/24 12:30	1. Samples Received by / Company:	Date/Time: 6/11/24
2. Samples Received by / Company: YU	Date/Time: 6/11/24 1400 3.1°C	2. Samples Relinquished by / Company:	Date/Time:
3. Samples Relinquished by / Company: YU	Date/Time: 6/11/24	3. Samples Received by / Company: Ramon Duran	Date/Time: 6/11/24 1900
4. Samples Relinquished by / Company: Ramon Duran	Date/Time: 6/11/24 20:25	4. Samples Received by / Company:	Date/Time:
		Samples Received in LAB by: KMA	Date/Time: 6/11/24 20:25 Temperature: 4.5 Degrees C

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DATA USABILITY SUMMARY REPORT

FOR

43-25 52nd Street

Project Number 22254

SOIL AND WATER SAMPLES

VOA, SVOA, Pest, PCB, and Metals

SDG No. 24F0829

Sampling Date: June 12, 2024

Submitted to:

YU & Associates
611 River Drive
3rd Floor
Elmwood Park, NJ 07407

Prepared by:

Environmental Occupational & Public Health Consultants Inc. (EOPHC)
Environmental Data Validation Inc. (EDV, Inc.)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Data Qualifier Definitions

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the Limit of Detection (LOD) for sample and method.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result was an estimated quantity, but the results may be biased high.
J-	The result was an estimated quantity, but the results may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The presence or absence of the analyte cannot be substantiated by the data provided. Rejection of data is recommended.

Site: 43-25 52nd Street
Client: YU & Associates
Laboratory: York Analytical

SDG #: 24F0829
Date: September 9, 2024
Reviewer: R. Smith

Sample Identification Table

Client Sample ID	Laboratory Sample ID	Matrix	VOA	SVOA/Pest/ PCB	Metals/ Mercury
EP-17	24F0829-01	Soil	X	X	X
EP-67	24F0829-02	Soil	X	X	X
EP-18	24F0829-03	Soil	X	X	X
EP-68	24F0829-04	Soil	X	X	X
EB-061224	24F0829-05	Water	X	X	X
TB-061224	24F0829-06	Water	X		

The sample delivery group (SDG) contained results for four soil samples, one trip blank and one equipment blank. The samples were analyzed using the following USEPA SW-846 Methods: 8260D (VOA); 8270E (SVOA); 8270E SIM (SVOA – Equipment Blank only); 8081B (Pesticides); 8082A (PCBs); 6010D (Metals – Soils); 6020B (Metals – Equipment Blank); 7473B (Mercury - Soils); and 7470A (Mercury – Equipment Blank). The adherence of laboratory performance to the method's analytical specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (DER-10, 11/09). USEPA Region II standard operating procedures were used as guidance documents. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, laboratory control samples, surrogate recoveries, matrix spike analysis, duplicate analysis, sample data, and field QC.

The following Attachments are a part of this report: All validated Form 1s are presented in Attachment A; and the Case Narrative and Chain of Custody (COC) records are presented in Attachment B.

A description of the information that was examined during the SDG review process, and any deficiencies noted, is summarized below:

1. Cover letter, Narrative and Data Reporting Forms (Form 1s): The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed. There were deficiencies not described in the case narrative and these deficiencies are explained in the relevant sections below.
2. Chain of Custody (COC): The COC was present and complete. The COC marked four samples, "old off" but the laboratory included then in the list of samples received in the SDG though they were not analyzed. The validator red-lined these samples in the Sample Cross Reference list (See Attachment B) provided by the laboratory.

3. Preservation: Preservation was acceptable.
4. Holding Time: Samples were analyzed within holding times.
5. Blanks Quality Control: The following was qualified non-detects due to method blank contamination;

Sample ID	Compound	Qualifier
L2342428-01 to L2342428-12 L2342428-17	Sodium	U

6. Calibration Quality Control: VOA – The percent difference (%D) in the initial calibration verification (ICV) was below QC limits for several compounds which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24F0829-01	Acrolein Tetrachloroethylene	UJ
24F0829-02 to 24F0829-04	Acetone Acrolein	UJ

VOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01	2-Butanone Acetone Acrolein Bromomethane Tetrachloroethylene	UJ
24F0829-02 to 24F0829-04	Tetrachloroethylene	UJ

SVOA – The percent difference (%D) in the initial calibration verification (ICV) was below QC limits for several compounds which resulted in the following qualifications;

Sample ID	Compound	Qualifier
24F0829-01	Hexachlorocyclopentadiene	UJ
24F0829-02 to 24F0829-04	2,4-Dimethylphenol Hexachlorocyclopentadiene	UJ

SVOA - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	UJ
24F0829-02 to 24F0829-04	1,2-Diphenylhydrazine 2,3,4,6-Tetrachlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 4,6-Dinitro-2-methylphenol 4-Nitrophenol Benzoic acid Hexachlorocyclopentadiene N-Nitrosodimethylamine Pyridine	UJ

Pest - The percent difference (%D) in one continuing calibration (CCAL) was above QC limits for several compounds and resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01	Aroclor 1260	UJ

7. Laboratory Control Sample (LCS): VOA – The percent recovery (%R) for one LCS was below QC limits for Tetrachloroethylene which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01	Tetrachloroethylene	UJ

Metals – The percent recovery (%R) for the LCS was above QC limits for Sodium which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01 to 24F0829-04	Sodium	J-

8. Surrogates: The results were acceptable.
9. Internal Standards: There were no deficiencies.
10. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**:** Metals – The percent recoveries (%R) were outside of QC limits for several compounds which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01	Aluminum Calcium Sodium	J-
	Iron Magnesium Manganese	J
	Antimony Silver	UJ
24F0829-03	Aluminum Potassium	J+
	Calcium Magnesium Manganese	J
	Iron	J-
	Antimony Silver	UJ

11. Lab Duplicate Relative Percent Difference (RPD): The RPDs were acceptable.
12. Field Duplicate: Not applicable.
13. Compound Identification/Quantitation: The results are acceptable
14. Serial Dilution: Metals - The percent difference (%D) was above QC limits for several compounds which resulted in the following being qualified;

Sample ID	Compound	Qualifier
24F0829-01, 24F0829-03	Aluminum Calcium Iron Magnesium Manganese Potassium	J

15. Method Detection Limit (MDL) and Reporting Limit (RL): The laboratory reported both the Method Detection Limit (MDL) and the Reporting Limit (RL) on the Form 1s. Positive results above the MDL but less than the RL, were qualified as estimated (J) by the laboratory.
16. Additional Comments: During the validation process, if data were impacted due to the deficiency, it is discussed in this DUSR, including a description of the data validation qualifier(s) applied to sample results on the Form 1s and the Electronic Data Deliverable (EDD). All discussions in the DUSR relate to all conditions that affect data usability.

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J+" qualifier are to be used cautiously as they are estimated with a potential high bias due to some quality control issues. Data qualified with the "J-" qualifier are to be used cautiously as they are estimated with a potential low bias due to some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable at the reporting limit.

ATTACHMENT A

FORM 1s

Volatiles
Method 8260

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-17

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-01	File ID:	V2629638.D
Sampled:	06/12/24 10:30	Prepared:	06/13/24 09:00	Analyzed:	06/13/24 19:55
Solids:	94.29	Preparation:	EPA 5035A	Initial/Final:	5.38 g / 5 ml
Batch:	BF40869	Sequence:	S4F1414	Calibration:	SF40005
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0049	U
71-55-6	1,1,1-Trichloroethane	1	0.0049	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0049	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0049	U
79-00-5	1,1,2-Trichloroethane	1	0.0049	U
75-34-3	1,1-Dichloroethane	1	0.0049	U
75-35-4	1,1-Dichloroethylene	1	0.0049	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0049	U
96-18-4	1,2,3-Trichloropropane	1	0.0049	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0049	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0049	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0049	U
106-93-4	1,2-Dibromoethane	1	0.0049	U
95-50-1	1,2-Dichlorobenzene	1	0.0049	U
107-06-2	1,2-Dichloroethane	1	0.0049	U
78-87-5	1,2-Dichloropropane	1	0.0049	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	U
541-73-1	1,3-Dichlorobenzene	1	0.0049	U
106-46-7	1,4-Dichlorobenzene	1	0.0049	U
123-91-1	1,4-Dioxane	1	0.099	U
78-93-3	2-Butanone	1	0.0049	U J
591-78-6	2-Hexanone	1	0.0049	U
108-10-1	4-Methyl-2-pentanone	1	0.0049	U
67-64-1	Acetone	1	0.0099	U J
107-02-8	Acrolein	1	0.0099	U J
107-13-1	Acrylonitrile	1	0.0049	U
71-43-2	Benzene	1	0.0049	U
74-97-5	Bromochloromethane	1	0.0049	U
75-27-4	Bromodichloromethane	1	0.0049	U
75-25-2	Bromoform	1	0.0049	U
74-83-9	Bromomethane	1	0.0049	U J
75-15-0	Carbon disulfide	1	0.0049	U
56-23-5	Carbon tetrachloride	1	0.0049	U
108-90-7	Chlorobenzene	1	0.0049	U
75-00-3	Chloroethane	1	0.0049	U
67-66-3	Chloroform	1	0.0049	U
74-87-3	Chloromethane	1	0.0049	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0049	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0049	U
110-82-7	Cyclohexane	1	0.0049	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-17

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-01	File ID:	V2629638.D
Sampled:	06/12/24 10:30	Prepared:	06/13/24 09:00	Analyzed:	06/13/24 19:55
Solids:	94.29	Preparation:	EPA 5035A	Initial/Final:	5.38 g / 5 ml
Batch:	BF40869	Sequence:	S4F1414	Calibration:	SF40005
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0049	U
74-95-3	Dibromomethane	1	0.0049	U
75-71-8	Dichlorodifluoromethane	1	0.0049	U
100-41-4	Ethyl Benzene	1	0.0049	U
87-68-3	Hexachlorobutadiene	1	0.0049	U
98-82-8	Isopropylbenzene	1	0.0049	U
79-20-9	Methyl acetate	1	0.0049	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0049	U
108-87-2	Methylcyclohexane	1	0.0049	U
75-09-2	Methylene chloride	1	0.0099	U
104-51-8	n-Butylbenzene	1	0.0049	U
103-65-1	n-Propylbenzene	1	0.0049	U
95-47-6	o-Xylene	1	0.0049	U
179601-23-1	p- & m- Xylenes	1	0.0099	U
99-87-6	p-Isopropyltoluene	1	0.0049	U
135-98-8	sec-Butylbenzene	1	0.0049	U
100-42-5	Styrene	1	0.0049	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0049	U
98-06-6	tert-Butylbenzene	1	0.0049	U
127-18-4	Tetrachloroethylene	1	0.0049	U J
108-88-3	Toluene	1	0.0049	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0049	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0049	U
79-01-6	Trichloroethylene	1	0.0049	U
75-69-4	Trichlorofluoromethane	1	0.0049	U
75-01-4	Vinyl Chloride	1	0.0049	U
1330-20-7	Xylenes, Total	1	0.015	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.9	102	77 - 125	
SURR: Toluene-d8	50.0	47.9	95.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.6	101	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	78597	5.891	87779	5.897	
ISTD: Chlorobenzene-d5	323634	8.945	362031	8.945	
ISTD: 1,2-Dichlorobenzene-d4	154087	11.951	157862	11.957	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	V11C017917.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 12:30	Analyzed:	06/13/24 23:14
Solids:	94.32	Preparation:	EPA 5035A	Initial/Final:	5.74 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.092	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.0092	U J
107-02-8	Acrolein	1	0.0092	U J
107-13-1	Acrylonitrile	1	0.0046	U
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U
75-15-0	Carbon disulfide	1	0.0046	U
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	V11C017917.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 12:30	Analyzed:	06/13/24 23:14
Solids:	94.32	Preparation:	EPA 5035A	Initial/Final:	5.74 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0092	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0092	U
99-87-6	p-Isopropyltoluene	1	0.0046	U
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0046	U J
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.1	100	77 - 125	
SURR: Toluene-d8	50.0	48.7	97.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.7	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	407765	6.056	446435	6.055	
ISTD: Chlorobenzene-d5	1624362	9.102	1818327	9.102	
ISTD: 1,2-Dichlorobenzene-d4	728824	12.1	878555	12.1	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-18

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-03	File ID:	V11C017918.D
Sampled:	06/12/24 11:00	Prepared:	06/13/24 12:30	Analyzed:	06/13/24 23:40
Solids:	93.50	Preparation:	EPA 5035A	Initial/Final:	5.86 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U
71-55-6	1,1,1-Trichloroethane	1	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U
79-00-5	1,1,2-Trichloroethane	1	0.0046	U
75-34-3	1,1-Dichloroethane	1	0.0046	U
75-35-4	1,1-Dichloroethylene	1	0.0046	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U
96-18-4	1,2,3-Trichloropropane	1	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U
106-93-4	1,2-Dibromoethane	1	0.0046	U
95-50-1	1,2-Dichlorobenzene	1	0.0046	U
107-06-2	1,2-Dichloroethane	1	0.0046	U
78-87-5	1,2-Dichloropropane	1	0.0046	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U
541-73-1	1,3-Dichlorobenzene	1	0.0046	U
106-46-7	1,4-Dichlorobenzene	1	0.0046	U
123-91-1	1,4-Dioxane	1	0.091	U
78-93-3	2-Butanone	1	0.0046	U
591-78-6	2-Hexanone	1	0.0046	U
108-10-1	4-Methyl-2-pentanone	1	0.0046	U
67-64-1	Acetone	1	0.0091	U J
107-02-8	Acrolein	1	0.0091	U J
107-13-1	Acrylonitrile	1	0.0046	U
71-43-2	Benzene	1	0.0046	U
74-97-5	Bromochloromethane	1	0.0046	U
75-27-4	Bromodichloromethane	1	0.0046	U
75-25-2	Bromoform	1	0.0046	U
74-83-9	Bromomethane	1	0.0046	U
75-15-0	Carbon disulfide	1	0.0046	U
56-23-5	Carbon tetrachloride	1	0.0046	U
108-90-7	Chlorobenzene	1	0.0046	U
75-00-3	Chloroethane	1	0.0046	U
67-66-3	Chloroform	1	0.0046	U
74-87-3	Chloromethane	1	0.0046	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U
110-82-7	Cyclohexane	1	0.0046	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-18

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-03	File ID:	V11C017918.D
Sampled:	06/12/24 11:00	Prepared:	06/13/24 12:30	Analyzed:	06/13/24 23:40
Solids:	93.50	Preparation:	EPA 5035A	Initial/Final:	5.86 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0046	U
74-95-3	Dibromomethane	1	0.0046	U
75-71-8	Dichlorodifluoromethane	1	0.0046	U
100-41-4	Ethyl Benzene	1	0.0046	U
87-68-3	Hexachlorobutadiene	1	0.0046	U
98-82-8	Isopropylbenzene	1	0.0046	U
79-20-9	Methyl acetate	1	0.0046	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U
108-87-2	Methylcyclohexane	1	0.0046	U
75-09-2	Methylene chloride	1	0.0091	U
104-51-8	n-Butylbenzene	1	0.0046	U
103-65-1	n-Propylbenzene	1	0.0046	U
95-47-6	o-Xylene	1	0.0046	U
179601-23-1	p- & m- Xylenes	1	0.0091	U
99-87-6	p-Isopropyltoluene	1	0.0046	U
135-98-8	sec-Butylbenzene	1	0.0046	U
100-42-5	Styrene	1	0.0046	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U
98-06-6	tert-Butylbenzene	1	0.0046	U
127-18-4	Tetrachloroethylene	1	0.0046	U J
108-88-3	Toluene	1	0.0046	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U
79-01-6	Trichloroethylene	1	0.0046	U
75-69-4	Trichlorofluoromethane	1	0.0046	U
75-01-4	Vinyl Chloride	1	0.0046	U
1330-20-7	Xylenes, Total	1	0.014	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.0	102	77 - 125	
SURR: Toluene-d8	50.0	48.0	95.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.0	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	450726	6.055	446435	6.055	
ISTD: Chlorobenzene-d5	1860659	9.102	1818327	9.102	
ISTD: 1,2-Dichlorobenzene-d4	825274	12.1	878555	12.1	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	V11C017919.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 12:30	Analyzed:	06/14/24 00:06
Solids:	94.02	Preparation:	EPA 5035A	Initial/Final:	5.97 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U
71-55-6	1,1,1-Trichloroethane	1	0.0045	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U
79-00-5	1,1,2-Trichloroethane	1	0.0045	U
75-34-3	1,1-Dichloroethane	1	0.0045	U
75-35-4	1,1-Dichloroethylene	1	0.0045	U
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U
96-18-4	1,2,3-Trichloropropane	1	0.0045	U
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U
95-63-6	1,2,4-Trimethylbenzene	1	0.0045	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U
106-93-4	1,2-Dibromoethane	1	0.0045	U
95-50-1	1,2-Dichlorobenzene	1	0.0045	U
107-06-2	1,2-Dichloroethane	1	0.0045	U
78-87-5	1,2-Dichloropropane	1	0.0045	U
108-67-8	1,3,5-Trimethylbenzene	1	0.0045	U
541-73-1	1,3-Dichlorobenzene	1	0.0045	U
106-46-7	1,4-Dichlorobenzene	1	0.0045	U
123-91-1	1,4-Dioxane	1	0.089	U
78-93-3	2-Butanone	1	0.0045	U
591-78-6	2-Hexanone	1	0.0045	U
108-10-1	4-Methyl-2-pentanone	1	0.0045	U
67-64-1	Acetone	1	0.0089	U J
107-02-8	Acrolein	1	0.0089	U J
107-13-1	Acrylonitrile	1	0.0045	U
71-43-2	Benzene	1	0.0045	U
74-97-5	Bromochloromethane	1	0.0045	U
75-27-4	Bromodichloromethane	1	0.0045	U
75-25-2	Bromoform	1	0.0045	U
74-83-9	Bromomethane	1	0.0045	U
75-15-0	Carbon disulfide	1	0.0045	U
56-23-5	Carbon tetrachloride	1	0.0045	U
108-90-7	Chlorobenzene	1	0.0045	U
75-00-3	Chloroethane	1	0.0045	U
67-66-3	Chloroform	1	0.0045	U
74-87-3	Chloromethane	1	0.0045	U
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U
110-82-7	Cyclohexane	1	0.0045	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	V11C017919.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 12:30	Analyzed:	06/14/24 00:06
Solids:	94.02	Preparation:	EPA 5035A	Initial/Final:	5.97 g / 5 ml
Batch:	BF40900	Sequence:	S4F1408	Calibration:	SF40006
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0045	U
74-95-3	Dibromomethane	1	0.0045	U
75-71-8	Dichlorodifluoromethane	1	0.0045	U
100-41-4	Ethyl Benzene	1	0.0045	U
87-68-3	Hexachlorobutadiene	1	0.0045	U
98-82-8	Isopropylbenzene	1	0.0045	U
79-20-9	Methyl acetate	1	0.0045	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U
108-87-2	Methylcyclohexane	1	0.0045	U
75-09-2	Methylene chloride	1	0.0089	U
104-51-8	n-Butylbenzene	1	0.0045	U
103-65-1	n-Propylbenzene	1	0.0045	U
95-47-6	o-Xylene	1	0.0045	U
179601-23-1	p- & m- Xylenes	1	0.0089	U
99-87-6	p-Isopropyltoluene	1	0.0045	U
135-98-8	sec-Butylbenzene	1	0.0045	U
100-42-5	Styrene	1	0.0045	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U
98-06-6	tert-Butylbenzene	1	0.0045	U
127-18-4	Tetrachloroethylene	1	0.0045	U J
108-88-3	Toluene	1	0.0045	U
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U
79-01-6	Trichloroethylene	1	0.0045	U
75-69-4	Trichlorofluoromethane	1	0.0045	U
75-01-4	Vinyl Chloride	1	0.0045	U
1330-20-7	Xylenes, Total	1	0.013	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.0	100	77 - 125	
SURR: Toluene-d8	50.0	48.0	96.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.9	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	467796	6.056	446435	6.055	
ISTD: Chlorobenzene-d5	1898401	9.102	1818327	9.102	
ISTD: 1,2-Dichlorobenzene-d4	845039	12.1	878555	12.1	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	V855631.D
Sampled:	06/12/24 12:00	Prepared:	06/14/24 02:00	Analyzed:	06/15/24 06:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40944	Sequence:	S4F1713	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.950	
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	12.7	
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	V855631.D
Sampled:	06/12/24 12:00	Prepared:	06/14/24 02:00	Analyzed:	06/15/24 06:04
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40944	Sequence:	S4F1713	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.800	J
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: Toluene-d8	10.0	9.00	90.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.83	98.3	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	345880	5.583	370589	5.577	
ISTD: Chlorobenzene-d5	1900902	8.594	2004665	8.594	
ISTD: 1,2-Dichlorobenzene-d4	914354	11.575	952611	11.575	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260D

TB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-06	File ID:	V855618.D
Sampled:	06/12/24 12:00	Prepared:	06/14/24 02:00	Analyzed:	06/14/24 23:57
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40944	Sequence:	S4F1713	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

TB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-06	File ID:	V855618.D
Sampled:	06/12/24 12:00	Prepared:	06/14/24 02:00	Analyzed:	06/14/24 23:57
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF40944	Sequence:	S4F1713	Calibration:	SF40009
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.510	B
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	9.16	91.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	357001	5.583	370589	5.577	
ISTD: Chlorobenzene-d5	1940304	8.594	2004665	8.594	
ISTD: 1,2-Dichlorobenzene-d4	913743	11.575	952611	11.575	

* Values outside of QC limits

Semivolatiles
Method 8270 SIM

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	SV521602.D
Sampled:	06/12/24 12:00	Prepared:	06/13/24 08:24	Analyzed:	06/14/24 14:59
Solids:		Preparation:	EPA 3510C	Initial/Final:	975 mL / 1 mL
Batch:	BF40846	Sequence:	S4F1707	Calibration:	SE40037
Instrument:	BNA #5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
83-32-9	Acenaphthene	1	0.0513	U
208-96-8	Acenaphthylene	1	0.0513	U
120-12-7	Anthracene	1	0.0513	U
1912-24-9	Atrazine	1	0.513	U
56-55-3	Benzo(a)anthracene	1	0.0513	U
50-32-8	Benzo(a)pyrene	1	0.0513	U
205-99-2	Benzo(b)fluoranthene	1	0.0513	U
191-24-2	Benzo(g,h,i)perylene	1	0.0513	U
207-08-9	Benzo(k)fluoranthene	1	0.0513	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.513	U
218-01-9	Chrysene	1	0.0513	U
53-70-3	Dibenzo(a,h)anthracene	1	0.0513	U
206-44-0	Fluoranthene	1	0.0513	U
86-73-7	Fluorene	1	0.246	
118-74-1	Hexachlorobenzene	1	0.0205	U
87-68-3	Hexachlorobutadiene	1	0.513	U
67-72-1	Hexachloroethane	1	0.513	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0513	U
91-20-3	Naphthalene	1	0.0513	U
98-95-3	Nitrobenzene	1	0.256	U
62-75-9	N-Nitrosodimethylamine	1	0.513	U
87-86-5	Pentachlorophenol	1	0.256	U
85-01-8	Phenanthrene	1	0.0513	U
129-00-0	Pyrene	1	0.0821	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Naphthalene-d8	29121990	9.77	46299670	9.77	
ISTD: Acenaphthene-d10	17343620	12.16	28212840	12.16	
ISTD: Phenanthrene-d10	31130550	14.28	51281860	14.27	
ISTD: Chrysene-d12	27798100	18.05	43898120	18.05	
ISTD: Perylene-d12	29127610	19.95	48964750	19.95	

* Values outside of QC limits

Semivolatiles
Method 8270

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-17

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-01 File ID: E20020650.D

Sampled: 06/12/24 10:30 Prepared: 06/13/24 13:51 Analyzed: 06/14/24 13:39

Solids: 94.29 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BF40883 Sequence: S4F1422 Calibration: SE40052 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0879	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.176	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0879	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.176	U
95-95-4	2,4,5-Trichlorophenol	2	0.0879	U
88-06-2	2,4,6-Trichlorophenol	2	0.0879	U
120-83-2	2,4-Dichlorophenol	2	0.0879	U
105-67-9	2,4-Dimethylphenol	2	0.0879	U
51-28-5	2,4-Dinitrophenol	2	0.176	U J
121-14-2	2,4-Dinitrotoluene	2	0.0879	U
606-20-2	2,6-Dinitrotoluene	2	0.0879	U
91-58-7	2-Chloronaphthalene	2	0.0879	U
95-57-8	2-Chlorophenol	2	0.0879	U
91-57-6	2-Methylnaphthalene	2	0.0879	U
95-48-7	2-Methylphenol	2	0.0879	U
88-74-4	2-Nitroaniline	2	0.176	U
88-75-5	2-Nitrophenol	2	0.0879	U
65794-96-9	3- & 4-Methylphenols	2	0.0879	U
91-94-1	3,3-Dichlorobenzidine	2	0.0879	U
99-09-2	3-Nitroaniline	2	0.176	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.176	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0879	U
59-50-7	4-Chloro-3-methylphenol	2	0.0879	U
106-47-8	4-Chloroaniline	2	0.0879	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0879	U
100-01-6	4-Nitroaniline	2	0.176	U
100-02-7	4-Nitrophenol	2	0.176	U
83-32-9	Acenaphthene	2	0.0879	U
208-96-8	Acenaphthylene	2	0.0879	U
98-86-2	Acetophenone	2	0.0879	U
62-53-3	Aniline	2	0.352	U
120-12-7	Anthracene	2	0.0879	U
1912-24-9	Atrazine	2	0.0879	U
100-52-7	Benzaldehyde	2	0.0879	U
92-87-5	Benzidine	2	0.352	U
56-55-3	Benzo(a)anthracene	2	0.0879	U
50-32-8	Benzo(a)pyrene	2	0.0879	U
205-99-2	Benzo(b)fluoranthene	2	0.0879	U
191-24-2	Benzo(g,h,i)perylene	2	0.0879	U
207-08-9	Benzo(k)fluoranthene	2	0.0879	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-17

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-01	File ID:	E20020650.D
Sampled:	06/12/24 10:30	Prepared:	06/13/24 13:51	Analyzed:	06/14/24 13:39
Solids:	94.29	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BF40883	Sequence:	S4F1422	Calibration:	SE40052
Instrument:	BNA#2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0879	U
100-51-6	Benzyl alcohol	2	0.0879	U
85-68-7	Benzyl butyl phthalate	2	0.0879	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0879	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0879	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0879	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0879	U
105-60-2	Caprolactam	2	0.176	U
86-74-8	Carbazole	2	0.0879	U
218-01-9	Chrysene	2	0.0879	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0879	U
132-64-9	Dibenzofuran	2	0.0879	U
84-66-2	Diethyl phthalate	2	0.0879	U
131-11-3	Dimethyl phthalate	2	0.0879	U
84-74-2	Di-n-butyl phthalate	2	0.0879	U
117-84-0	Di-n-octyl phthalate	2	0.0879	U
122-39-4	Diphenylamine	2	0.176	U
206-44-0	Fluoranthene	2	0.0879	U
86-73-7	Fluorene	2	0.0879	U
118-74-1	Hexachlorobenzene	2	0.0879	U
87-68-3	Hexachlorobutadiene	2	0.0879	U
77-47-4	Hexachlorocyclopentadiene	2	0.0879	U J
67-72-1	Hexachloroethane	2	0.0879	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0879	U
78-59-1	Isophorone	2	0.0879	U
91-20-3	Naphthalene	2	0.0879	U
98-95-3	Nitrobenzene	2	0.0879	U
62-75-9	N-Nitrosodimethylamine	2	0.0879	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0879	U
86-30-6	N-Nitrosodiphenylamine	2	0.0879	U
87-86-5	Pentachlorophenol	2	0.0879	U
85-01-8	Phenanthrene	2	0.0879	U
108-95-2	Phenol	2	0.0879	U
129-00-0	Pyrene	2	0.0879	U
110-86-1	Pyridine	2	0.352	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.76	1.86	106	20 - 108	
SURR: Phenol-d6	1.76	1.78	101	23 - 114	
SURR: Nitrobenzene-d5	0.878	0.797	90.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-17

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-01	File ID:	E20020650.D
Sampled:	06/12/24 10:30	Prepared:	06/13/24 13:51	Analyzed:	06/14/24 13:39
Solids:	94.29	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BF40883	Sequence:	S4F1422	Calibration:	SE40052
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.878	0.877	99.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.76	2.10	119	19 - 110	*
SURR: Terphenyl-d14	0.878	1.04	119	24 - 116	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	141856	5.555	164817	5.555	
ISTD: Naphthalene-d8	617469	6.499	731468	6.499	
ISTD: Acenaphthene-d10	409706	8.202	396751	8.202	
ISTD: Phenanthrene-d10	822842	10.371	721792	10.371	
ISTD: Chrysene-d12	744732	15.946	696284	15.941	
ISTD: Perylene-d12	750484	19.078	843538	19.068	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	BNA1028001.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 17:56
Solids:	94.32	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0870	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.174	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0870	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.174	U J
95-95-4	2,4,5-Trichlorophenol	2	0.0870	U
88-06-2	2,4,6-Trichlorophenol	2	0.0870	U
120-83-2	2,4-Dichlorophenol	2	0.0870	U
105-67-9	2,4-Dimethylphenol	2	0.0870	U J
51-28-5	2,4-Dinitrophenol	2	0.174	U J
121-14-2	2,4-Dinitrotoluene	2	0.0870	U J
606-20-2	2,6-Dinitrotoluene	2	0.0870	U
91-58-7	2-Chloronaphthalene	2	0.0870	U
95-57-8	2-Chlorophenol	2	0.0870	U
91-57-6	2-Methylnaphthalene	2	0.0870	U
95-48-7	2-Methylphenol	2	0.0870	U
88-74-4	2-Nitroaniline	2	0.174	U
88-75-5	2-Nitrophenol	2	0.0870	U
65794-96-9	3- & 4-Methylphenols	2	0.0870	U
91-94-1	3,3-Dichlorobenzidine	2	0.0870	U
99-09-2	3-Nitroaniline	2	0.174	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.174	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0870	U
59-50-7	4-Chloro-3-methylphenol	2	0.0870	U
106-47-8	4-Chloroaniline	2	0.0870	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0870	U
100-01-6	4-Nitroaniline	2	0.174	U
100-02-7	4-Nitrophenol	2	0.174	U J
83-32-9	Acenaphthene	2	0.0870	U
208-96-8	Acenaphthylene	2	0.0870	U
98-86-2	Acetophenone	2	0.0870	U
62-53-3	Aniline	2	0.348	U
120-12-7	Anthracene	2	0.0870	U
1912-24-9	Atrazine	2	0.0870	U
100-52-7	Benzaldehyde	2	0.0870	U
92-87-5	Benzidine	2	0.348	U
56-55-3	Benzo(a)anthracene	2	0.0870	U
50-32-8	Benzo(a)pyrene	2	0.0870	U
205-99-2	Benzo(b)fluoranthene	2	0.0870	U
191-24-2	Benzo(g,h,i)perylene	2	0.0870	U
207-08-9	Benzo(k)fluoranthene	2	0.0870	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	BNA1028001.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 17:56
Solids:	94.32	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0870	U J
100-51-6	Benzyl alcohol	2	0.0870	U
85-68-7	Benzyl butyl phthalate	2	0.0870	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0870	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0870	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0870	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0870	U
105-60-2	Caprolactam	2	0.174	U
86-74-8	Carbazole	2	0.0870	U
218-01-9	Chrysene	2	0.0870	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0870	U
132-64-9	Dibenzofuran	2	0.0870	U
84-66-2	Diethyl phthalate	2	0.0870	U
131-11-3	Dimethyl phthalate	2	0.0870	U
84-74-2	Di-n-butyl phthalate	2	0.0870	U
117-84-0	Di-n-octyl phthalate	2	0.0870	U
122-39-4	Diphenylamine	2	0.174	U
206-44-0	Fluoranthene	2	0.0870	U
86-73-7	Fluorene	2	0.0870	U
118-74-1	Hexachlorobenzene	2	0.0870	U
87-68-3	Hexachlorobutadiene	2	0.0870	U
77-47-4	Hexachlorocyclopentadiene	2	0.0870	U J
67-72-1	Hexachloroethane	2	0.0870	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0870	U
78-59-1	Isophorone	2	0.0870	U
91-20-3	Naphthalene	2	0.0870	U
98-95-3	Nitrobenzene	2	0.0870	U
62-75-9	N-Nitrosodimethylamine	2	0.0870	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0870	U
86-30-6	N-Nitrosodiphenylamine	2	0.0870	U
87-86-5	Pentachlorophenol	2	0.0870	U
85-01-8	Phenanthrene	2	0.0870	U
108-95-2	Phenol	2	0.0870	U
129-00-0	Pyrene	2	0.0870	U
110-86-1	Pyridine	2	0.348	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.74	1.13	65.2	20 - 108	
SURR: Phenol-d6	1.74	1.06	61.0	23 - 114	
SURR: Nitrobenzene-d5	0.869	0.533	61.4	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	BNA1028001.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 17:56
Solids:	94.32	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.869	0.627	72.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.74	1.71	98.1	19 - 110	
SURR: Terphenyl-d14	0.869	0.670	77.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	170630	5.234	202345	5.228	
ISTD: Naphthalene-d8	711660	6.298	964270	6.297	
ISTD: Acenaphthene-d10	459964	8.117	588876	8.117	
ISTD: Phenanthrene-d10	792944	10.081	1035135	10.075	
ISTD: Chrysene-d12	717331	14.905	987374	14.899	
ISTD: Perylene-d12	694814	17.927	1068980	17.921	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-18

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-03 File ID: BNA1028002.D

Sampled: 06/12/24 11:00 Prepared: 06/13/24 08:51 Analyzed: 06/14/24 18:26

Solids: 93.50 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BF40859 Sequence: S4F1607 Calibration: SD40052 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0880	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.176	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0880	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.176	U J
95-95-4	2,4,5-Trichlorophenol	2	0.0880	U
88-06-2	2,4,6-Trichlorophenol	2	0.0880	U
120-83-2	2,4-Dichlorophenol	2	0.0880	U
105-67-9	2,4-Dimethylphenol	2	0.0880	U J
51-28-5	2,4-Dinitrophenol	2	0.176	U J
121-14-2	2,4-Dinitrotoluene	2	0.0880	U J
606-20-2	2,6-Dinitrotoluene	2	0.0880	U
91-58-7	2-Chloronaphthalene	2	0.0880	U
95-57-8	2-Chlorophenol	2	0.0880	U
91-57-6	2-Methylnaphthalene	2	0.0880	U
95-48-7	2-Methylphenol	2	0.0880	U
88-74-4	2-Nitroaniline	2	0.176	U
88-75-5	2-Nitrophenol	2	0.0880	U
65794-96-9	3- & 4-Methylphenols	2	0.0880	U
91-94-1	3,3-Dichlorobenzidine	2	0.0880	U
99-09-2	3-Nitroaniline	2	0.176	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.176	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0880	U
59-50-7	4-Chloro-3-methylphenol	2	0.0880	U
106-47-8	4-Chloroaniline	2	0.0880	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0880	U
100-01-6	4-Nitroaniline	2	0.176	U
100-02-7	4-Nitrophenol	2	0.176	U J
83-32-9	Acenaphthene	2	0.0880	U
208-96-8	Acenaphthylene	2	0.0880	U
98-86-2	Acetophenone	2	0.0880	U
62-53-3	Aniline	2	0.353	U
120-12-7	Anthracene	2	0.0880	U
1912-24-9	Atrazine	2	0.0880	U
100-52-7	Benzaldehyde	2	0.0880	U
92-87-5	Benzidine	2	0.353	U
56-55-3	Benzo(a)anthracene	2	0.0880	U
50-32-8	Benzo(a)pyrene	2	0.0880	U
205-99-2	Benzo(b)fluoranthene	2	0.0880	U
191-24-2	Benzo(g,h,i)perylene	2	0.0880	U
207-08-9	Benzo(k)fluoranthene	2	0.0880	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-18

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-03	File ID:	BNA1028002.D
Sampled:	06/12/24 11:00	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 18:26
Solids:	93.50	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0880	U J
100-51-6	Benzyl alcohol	2	0.0880	U
85-68-7	Benzyl butyl phthalate	2	0.0880	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0880	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0880	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0880	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0880	U
105-60-2	Caprolactam	2	0.176	U
86-74-8	Carbazole	2	0.0880	U
218-01-9	Chrysene	2	0.0880	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0880	U
132-64-9	Dibenzofuran	2	0.0880	U
84-66-2	Diethyl phthalate	2	0.0880	U
131-11-3	Dimethyl phthalate	2	0.0880	U
84-74-2	Di-n-butyl phthalate	2	0.0880	U
117-84-0	Di-n-octyl phthalate	2	0.0880	U
122-39-4	Diphenylamine	2	0.176	U
206-44-0	Fluoranthene	2	0.0880	U
86-73-7	Fluorene	2	0.0880	U
118-74-1	Hexachlorobenzene	2	0.0880	U
87-68-3	Hexachlorobutadiene	2	0.0880	U
77-47-4	Hexachlorocyclopentadiene	2	0.0880	U J
67-72-1	Hexachloroethane	2	0.0880	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0880	U
78-59-1	Isophorone	2	0.0880	U
91-20-3	Naphthalene	2	0.0880	U
98-95-3	Nitrobenzene	2	0.0880	U
62-75-9	N-Nitrosodimethylamine	2	0.0880	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0880	U
86-30-6	N-Nitrosodiphenylamine	2	0.0880	U
87-86-5	Pentachlorophenol	2	0.0880	U
85-01-8	Phenanthrene	2	0.0880	U
108-95-2	Phenol	2	0.0880	U
129-00-0	Pyrene	2	0.0880	U
110-86-1	Pyridine	2	0.353	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.76	1.25	71.0	20 - 108	
SURR: Phenol-d6	1.76	1.20	68.3	23 - 114	
SURR: Nitrobenzene-d5	0.880	0.641	72.9	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-18

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-03	File ID:	BNA1028002.D
Sampled:	06/12/24 11:00	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 18:26
Solids:	93.50	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.880	0.695	79.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.76	1.98	112	19 - 110	*
SURR: Terphenyl-d14	0.880	0.748	85.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	181247	5.234	202345	5.228	
ISTD: Naphthalene-d8	748165	6.297	964270	6.297	
ISTD: Acenaphthene-d10	488590	8.116	588876	8.117	
ISTD: Phenanthrene-d10	815966	10.081	1035135	10.075	
ISTD: Chrysene-d12	760831	14.904	987374	14.899	
ISTD: Perylene-d12	737880	17.926	1068980	17.921	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	BNA1028003.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 18:56
Solids:	94.02	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
92-52-4	1,1-Biphenyl	2	0.0875	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.175	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0875	U J
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.175	U J
95-95-4	2,4,5-Trichlorophenol	2	0.0875	U
88-06-2	2,4,6-Trichlorophenol	2	0.0875	U
120-83-2	2,4-Dichlorophenol	2	0.0875	U
105-67-9	2,4-Dimethylphenol	2	0.0875	U J
51-28-5	2,4-Dinitrophenol	2	0.175	U J
121-14-2	2,4-Dinitrotoluene	2	0.0875	U J
606-20-2	2,6-Dinitrotoluene	2	0.0875	U
91-58-7	2-Chloronaphthalene	2	0.0875	U
95-57-8	2-Chlorophenol	2	0.0875	U
91-57-6	2-Methylnaphthalene	2	0.0875	U
95-48-7	2-Methylphenol	2	0.0875	U
88-74-4	2-Nitroaniline	2	0.175	U
88-75-5	2-Nitrophenol	2	0.0875	U
65794-96-9	3- & 4-Methylphenols	2	0.0875	U
91-94-1	3,3-Dichlorobenzidine	2	0.0875	U
99-09-2	3-Nitroaniline	2	0.175	U
534-52-1	4,6-Dinitro-2-methylphenol	2	0.175	U J
101-55-3	4-Bromophenyl phenyl ether	2	0.0875	U
59-50-7	4-Chloro-3-methylphenol	2	0.0875	U
106-47-8	4-Chloroaniline	2	0.0875	U
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0875	U
100-01-6	4-Nitroaniline	2	0.175	U
100-02-7	4-Nitrophenol	2	0.175	U J
83-32-9	Acenaphthene	2	0.0875	U
208-96-8	Acenaphthylene	2	0.0875	U
98-86-2	Acetophenone	2	0.0875	U
62-53-3	Aniline	2	0.351	U
120-12-7	Anthracene	2	0.0875	U
1912-24-9	Atrazine	2	0.0875	U
100-52-7	Benzaldehyde	2	0.0875	U
92-87-5	Benzidine	2	0.351	U
56-55-3	Benzo(a)anthracene	2	0.0875	U
50-32-8	Benzo(a)pyrene	2	0.0875	U
205-99-2	Benzo(b)fluoranthene	2	0.0875	U
191-24-2	Benzo(g,h,i)perylene	2	0.0875	U
207-08-9	Benzo(k)fluoranthene	2	0.0875	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	BNA1028003.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 18:56
Solids:	94.02	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
65-85-0	Benzoic acid	2	0.0875	U J
100-51-6	Benzyl alcohol	2	0.0875	U
85-68-7	Benzyl butyl phthalate	2	0.0875	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0875	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0875	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0875	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0875	U
105-60-2	Caprolactam	2	0.175	U
86-74-8	Carbazole	2	0.0875	U
218-01-9	Chrysene	2	0.0875	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0875	U
132-64-9	Dibenzofuran	2	0.0875	U
84-66-2	Diethyl phthalate	2	0.0875	U
131-11-3	Dimethyl phthalate	2	0.0875	U
84-74-2	Di-n-butyl phthalate	2	0.0875	U
117-84-0	Di-n-octyl phthalate	2	0.0875	U
122-39-4	Diphenylamine	2	0.175	U
206-44-0	Fluoranthene	2	0.0875	U
86-73-7	Fluorene	2	0.0875	U
118-74-1	Hexachlorobenzene	2	0.0875	U
87-68-3	Hexachlorobutadiene	2	0.0875	U
77-47-4	Hexachlorocyclopentadiene	2	0.0875	U J
67-72-1	Hexachloroethane	2	0.0875	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0875	U
78-59-1	Isophorone	2	0.0875	U
91-20-3	Naphthalene	2	0.0875	U
98-95-3	Nitrobenzene	2	0.0875	U
62-75-9	N-Nitrosodimethylamine	2	0.0875	U J
621-64-7	N-nitroso-di-n-propylamine	2	0.0875	U
86-30-6	N-Nitrosodiphenylamine	2	0.0875	U
87-86-5	Pentachlorophenol	2	0.0875	U
85-01-8	Phenanthrene	2	0.0875	U
108-95-2	Phenol	2	0.0875	U
129-00-0	Pyrene	2	0.0875	U
110-86-1	Pyridine	2	0.351	U J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.75	1.15	65.6	20 - 108	
SURR: Phenol-d6	1.75	1.09	62.4	23 - 114	
SURR: Nitrobenzene-d5	0.875	0.540	61.8	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	BNA1028003.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 08:51	Analyzed:	06/14/24 18:56
Solids:	94.02	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BF40859	Sequence:	S4F1607	Calibration:	SD40052
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.875	0.603	69.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.75	1.68	96.1	19 - 110	
SURR: Terphenyl-d14	0.875	0.676	77.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	161215	5.228	202345	5.228	
ISTD: Naphthalene-d8	679850	6.298	964270	6.297	
ISTD: Acenaphthene-d10	445751	8.117	588876	8.117	
ISTD: Phenanthrene-d10	751215	10.075	1035135	10.075	
ISTD: Chrysene-d12	687334	14.899	987374	14.899	
ISTD: Perylene-d12	671065	17.921	1068980	17.921	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	SV303308.D
Sampled:	06/12/24 12:00	Prepared:	06/13/24 08:24	Analyzed:	06/14/24 18:01
Solids:		Preparation:	EPA 3510C	Initial/Final:	975 mL / 1 mL
Batch:	BF40846	Sequence:	S4F1427	Calibration:	SF40015
Instrument:	BNA #3				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
92-52-4	1,1-Biphenyl	1	5.13	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.13	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.13	U
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.13	U
95-95-4	2,4,5-Trichlorophenol	1	5.13	U
88-06-2	2,4,6-Trichlorophenol	1	5.13	U
120-83-2	2,4-Dichlorophenol	1	5.13	U
105-67-9	2,4-Dimethylphenol	1	5.13	U
51-28-5	2,4-Dinitrophenol	1	5.13	U
121-14-2	2,4-Dinitrotoluene	1	5.13	U
606-20-2	2,6-Dinitrotoluene	1	5.13	U
91-58-7	2-Chloronaphthalene	1	5.13	U
95-57-8	2-Chlorophenol	1	5.13	U
91-57-6	2-Methylnaphthalene	1	5.13	U
95-48-7	2-Methylphenol	1	5.13	U
88-74-4	2-Nitroaniline	1	5.13	U
88-75-5	2-Nitrophenol	1	5.13	U
65794-96-9	3- & 4-Methylphenols	1	5.13	U
91-94-1	3,3-Dichlorobenzidine	1	5.13	U
99-09-2	3-Nitroaniline	1	5.13	U
534-52-1	4,6-Dinitro-2-methylphenol	1	5.13	U
101-55-3	4-Bromophenyl phenyl ether	1	5.13	U
59-50-7	4-Chloro-3-methylphenol	1	5.13	U
106-47-8	4-Chloroaniline	1	5.13	U
7005-72-3	4-Chlorophenyl phenyl ether	1	5.13	U
100-01-6	4-Nitroaniline	1	5.13	U
100-02-7	4-Nitrophenol	1	5.13	U
98-86-2	Acetophenone	1	5.13	U
62-53-3	Aniline	1	5.13	U
100-52-7	Benzaldehyde	1	5.13	U
92-87-5	Benzidine	1	5.13	U
65-85-0	Benzoic acid	1	5.13	U
100-51-6	Benzyl alcohol	1	5.13	U
85-68-7	Benzyl butyl phthalate	1	5.13	U
111-91-1	Bis(2-chloroethoxy)methane	1	5.13	U
111-44-4	Bis(2-chloroethyl)ether	1	5.13	U
108-60-1	Bis(2-chloroisopropyl)ether	1	5.13	U
105-60-2	Caprolactam	1	5.13	U
86-74-8	Carbazole	1	5.13	U
132-64-9	Dibenzofuran	1	5.13	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

EB_061224

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Water Laboratory ID: 24F0829-05 File ID: SV303308.D

Sampled: 06/12/24 12:00 Prepared: 06/13/24 08:24 Analyzed: 06/14/24 18:01

Solids: Preparation: EPA 3510C Initial/Final: 975 mL / 1 mL

Batch: BF40846 Sequence: S4F1427 Calibration: SF40015 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
84-66-2	Diethyl phthalate	1	5.13	U
131-11-3	Dimethyl phthalate	1	5.13	U
84-74-2	Di-n-butyl phthalate	1	5.13	U
117-84-0	Di-n-octyl phthalate	1	5.13	U
122-39-4	Diphenylamine	1	5.13	U
77-47-4	Hexachlorocyclopentadiene	1	10.3	U
78-59-1	Isophorone	1	5.13	U
621-64-7	N-nitroso-di-n-propylamine	1	5.13	U
86-30-6	N-Nitrosodiphenylamine	1	5.13	U
108-95-2	Phenol	1	5.13	U
110-86-1	Pyridine	1	5.13	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	51.3	21.8	42.4	19.7 - 63.1	
SURR: Phenol-d6	51.3	12.0	23.4	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.6	23.7	92.3	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.6	21.4	83.6	39.9 - 105	
SURR: 2,4,6-Tribromophenol	51.3	66.3	129	39.3 - 151	
SURR: Terphenyl-d14	25.6	24.6	95.8	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	3994858	5.965	4168909	5.965	
ISTD: Naphthalene-d8	16538840	6.901	18974250	6.902	
ISTD: Acenaphthene-d10	10533120	8.618	10987710	8.619	
ISTD: Phenanthrene-d10	19533270	10.815	20716680	10.818	
ISTD: Chrysene-d12	17923530	16.421	19974940	16.426	
ISTD: Perylene-d12	20696220	19.556	23445600	19.558	

* Values outside of QC limits

Pesticides
Method 8081

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-17

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-01 File ID: P7027934.D

Sampled: 06/12/24 10:30 Prepared: 06/14/24 11:38 Analyzed: 06/14/24 23:02

Solids: 94.29 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BF40962 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00172	U
72-55-9	4,4'-DDE	5	0.00172	U
50-29-3	4,4'-DDT	5	0.00172	U
309-00-2	Aldrin	5	0.00172	U
319-84-6	alpha-BHC	5	0.00172	U
5103-71-9	alpha-Chlordane	5	0.00172	U
319-85-7	beta-BHC	5	0.00172	U
319-86-8	delta-BHC	5	0.00172	U
60-57-1	Dieldrin	5	0.00172	U
959-98-8	Endosulfan I	5	0.00172	U
33213-65-9	Endosulfan II	5	0.00172	U
1031-07-8	Endosulfan sulfate	5	0.00172	U
72-20-8	Endrin	5	0.00172	U
7421-93-4	Endrin aldehyde	5	0.00172	U
53494-70-5	Endrin ketone	5	0.00172	U
58-89-9	gamma-BHC (Lindane)	5	0.00172	U
5566-34-7	gamma-Chlordane	5	0.00172	U
76-44-8	Heptachlor	5	0.00172	U
1024-57-3	Heptachlor epoxide	5	0.00172	U
72-43-5	Methoxychlor	5	0.00172	U
8001-35-2	Toxaphene	5	0.172	U
57-74-9	Chlordane, total	5	0.0344	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0695	0.0340	48.8	30 - 150	
Tetrachloro-m-xylene	0.0695	0.0455	65.4	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-67

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-02 File ID: P7027914.D

Sampled: 06/12/24 10:45 Prepared: 06/13/24 08:47 Analyzed: 06/14/24 13:07

Solids: 94.32 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BF40857 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00172	U
72-55-9	4,4'-DDE	5	0.00172	U
50-29-3	4,4'-DDT	5	0.00172	U
309-00-2	Aldrin	5	0.00172	U
319-84-6	alpha-BHC	5	0.00172	U
5103-71-9	alpha-Chlordane	5	0.00172	U
319-85-7	beta-BHC	5	0.00172	U
319-86-8	delta-BHC	5	0.00172	U
60-57-1	Dieldrin	5	0.00172	U
959-98-8	Endosulfan I	5	0.00172	U
33213-65-9	Endosulfan II	5	0.00172	U
1031-07-8	Endosulfan sulfate	5	0.00172	U
72-20-8	Endrin	5	0.00172	U
7421-93-4	Endrin aldehyde	5	0.00172	U
53494-70-5	Endrin ketone	5	0.00172	U
58-89-9	gamma-BHC (Lindane)	5	0.00172	U
5566-34-7	gamma-Chlordane	5	0.00172	U
76-44-8	Heptachlor	5	0.00172	U
1024-57-3	Heptachlor epoxide	5	0.00172	U
72-43-5	Methoxychlor	5	0.00172	U
8001-35-2	Toxaphene	5	0.172	U
57-74-9	Chlordane, total	5	0.0343	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0693	0.0285	41.1	30 - 150	
Tetrachloro-m-xylene	0.0693	0.0418	60.3	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-18

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-03 File ID: P7027915.D

Sampled: 06/12/24 11:00 Prepared: 06/13/24 08:47 Analyzed: 06/14/24 13:24

Solids: 93.50 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BF40857 Sequence: S4F1432 Calibration: SE40023 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00173	U
72-55-9	4,4'-DDE	5	0.00173	U
50-29-3	4,4'-DDT	5	0.00173	U
309-00-2	Aldrin	5	0.00173	U
319-84-6	alpha-BHC	5	0.00173	U
5103-71-9	alpha-Chlordane	5	0.00173	U
319-85-7	beta-BHC	5	0.00173	U
319-86-8	delta-BHC	5	0.00173	U
60-57-1	Dieldrin	5	0.00173	U
959-98-8	Endosulfan I	5	0.00173	U
33213-65-9	Endosulfan II	5	0.00173	U
1031-07-8	Endosulfan sulfate	5	0.00173	U
72-20-8	Endrin	5	0.00173	U
7421-93-4	Endrin aldehyde	5	0.00173	U
53494-70-5	Endrin ketone	5	0.00173	U
58-89-9	gamma-BHC (Lindane)	5	0.00173	U
5566-34-7	gamma-Chlordane	5	0.00173	U
76-44-8	Heptachlor	5	0.00173	U
1024-57-3	Heptachlor epoxide	5	0.00173	U
72-43-5	Methoxychlor	5	0.00173	U
8001-35-2	Toxaphene	5	0.173	U
57-74-9	Chlordane, total	5	0.0346	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0699	0.0307	43.9	30 - 150	
Tetrachloro-m-xylene	0.0699	0.0502	71.8	30 - 150	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8081B

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	P7027916.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 08:47	Analyzed:	06/14/24 13:41
Solids:	94.02	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BF40857	Sequence:	S4F1432	Calibration:	SE40023
Instrument:	PEST7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	5	0.00172	U
72-55-9	4,4'-DDE	5	0.00172	U
50-29-3	4,4'-DDT	5	0.00172	U
309-00-2	Aldrin	5	0.00172	U
319-84-6	alpha-BHC	5	0.00172	U
5103-71-9	alpha-Chlordane	5	0.00172	U
319-85-7	beta-BHC	5	0.00172	U
319-86-8	delta-BHC	5	0.00172	U
60-57-1	Dieldrin	5	0.00172	U
959-98-8	Endosulfan I	5	0.00172	U
33213-65-9	Endosulfan II	5	0.00172	U
1031-07-8	Endosulfan sulfate	5	0.00172	U
72-20-8	Endrin	5	0.00172	U
7421-93-4	Endrin aldehyde	5	0.00172	U
53494-70-5	Endrin ketone	5	0.00172	U
58-89-9	gamma-BHC (Lindane)	5	0.00172	U
5566-34-7	gamma-Chlordane	5	0.00172	U
76-44-8	Heptachlor	5	0.00172	U
1024-57-3	Heptachlor epoxide	5	0.00172	U
72-43-5	Methoxychlor	5	0.00172	U
8001-35-2	Toxaphene	5	0.172	U
57-74-9	Chlordane, total	5	0.0344	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0695	0.0314	45.2	30 - 150	
Tetrachloro-m-xylene	0.0695	0.0452	65.0	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	P20521403.d
Sampled:	06/12/24 12:00	Prepared:	06/13/24 08:21	Analyzed:	06/14/24 14:02
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BF40845	Sequence:	S4F1439	Calibration:	SE40014
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	1	0.00400	U
72-55-9	4,4'-DDE	1	0.00400	U
50-29-3	4,4'-DDT	1	0.00400	U
309-00-2	Aldrin	1	0.00400	U
319-84-6	alpha-BHC	1	0.00400	U
5103-71-9	alpha-Chlordane	1	0.00400	U
319-85-7	beta-BHC	1	0.00400	U
319-86-8	delta-BHC	1	0.00400	U
60-57-1	Dieldrin	1	0.00200	U
959-98-8	Endosulfan I	1	0.00400	U
33213-65-9	Endosulfan II	1	0.00400	U
1031-07-8	Endosulfan sulfate	1	0.00400	U
72-20-8	Endrin	1	0.00400	U
7421-93-4	Endrin aldehyde	1	0.0100	U
53494-70-5	Endrin ketone	1	0.0100	U
58-89-9	gamma-BHC (Lindane)	1	0.00400	U
5566-34-7	gamma-Chlordane	1	0.0100	U
76-44-8	Heptachlor	1	0.00400	U
1024-57-3	Heptachlor epoxide	1	0.00400	U
72-43-5	Methoxychlor	1	0.00400	U
8001-35-2	Toxaphene	1	0.100	U
57-74-9	Chlordane, total	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0983	49.1	30 - 150	
Tetrachloro-m-xylene	0.200	0.155	77.6	30 - 150	

* Values outside of QC limits

PCB
Method 8082

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EP-17

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-01	File ID:	P1148258.D
Sampled:	06/12/24 10:30	Prepared:	06/14/24 11:38	Analyzed:	06/15/24 04:09
Solids:	94.29	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BF40962	Sequence:	S4F1425	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0174	U
11104-28-2	Aroclor 1221	1	0.0174	U
11141-16-5	Aroclor 1232	1	0.0174	U
53469-21-9	Aroclor 1242	1	0.0174	U
12672-29-6	Aroclor 1248	1	0.0174	U
11097-69-1	Aroclor 1254	1	0.0174	U
11096-82-5	Aroclor 1260	1	0.0174	U J
1336-36-3	Total PCBs	1	0.0174	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0695	0.0417	60.0	30 - 120	
Decachlorobiphenyl	0.0695	0.0365	52.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	P1148149.D
Sampled:	06/12/24 10:45	Prepared:	06/13/24 08:47	Analyzed:	06/14/24 00:48
Solids:	94.32	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BF40857	Sequence:	S4F1353	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0173	U
11104-28-2	Aroclor 1221	1	0.0173	U
11141-16-5	Aroclor 1232	1	0.0173	U
53469-21-9	Aroclor 1242	1	0.0173	U
12672-29-6	Aroclor 1248	1	0.0173	U
11097-69-1	Aroclor 1254	1	0.0173	U
11096-82-5	Aroclor 1260	1	0.0173	U
1336-36-3	Total PCBs	1	0.0173	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0693	0.0357	51.5	30 - 120	
Decachlorobiphenyl	0.0693	0.0284	41.0	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-18

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-03	File ID:	P1148150.D
Sampled:	06/12/24 11:00	Prepared:	06/13/24 08:47	Analyzed:	06/14/24 01:02
Solids:	93.50	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BF40857	Sequence:	S4F1353	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0175	U
11104-28-2	Aroclor 1221	1	0.0175	U
11141-16-5	Aroclor 1232	1	0.0175	U
53469-21-9	Aroclor 1242	1	0.0175	U
12672-29-6	Aroclor 1248	1	0.0175	U
11097-69-1	Aroclor 1254	1	0.0175	U
11096-82-5	Aroclor 1260	1	0.0175	U
1336-36-3	Total PCBs	1	0.0175	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0699	0.0419	60.0	30 - 120	
Decachlorobiphenyl	0.0699	0.0269	38.5	30 - 120	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8082A

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	P1148151.D
Sampled:	06/12/24 11:20	Prepared:	06/13/24 08:47	Analyzed:	06/14/24 01:15
Solids:	94.02	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BF40857	Sequence:	S4F1353	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0174	U
11104-28-2	Aroclor 1221	1	0.0174	U
11141-16-5	Aroclor 1232	1	0.0174	U
53469-21-9	Aroclor 1242	1	0.0174	U
12672-29-6	Aroclor 1248	1	0.0174	U
11097-69-1	Aroclor 1254	1	0.0174	U
11096-82-5	Aroclor 1260	1	0.0174	U
1336-36-3	Total PCBs	1	0.0174	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0695	0.0330	47.5	30 - 120	
Decachlorobiphenyl	0.0695	0.0292	42.0	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	P1148188.D
Sampled:	06/12/24 12:00	Prepared:	06/13/24 08:21	Analyzed:	06/14/24 10:11
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BF40845	Sequence:	S4F1425	Calibration:	SC40045
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.130	65.0	30 - 120	
Decachlorobiphenyl	0.200	0.103	51.5	30 - 120	

* Values outside of QC limits

Metals
Method 6020

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

EB_061224

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Water Laboratory ID: 24F0829-05 File ID: QBIMX061424A-081

Sampled: 06/12/24 12:00 Prepared: 06/14/24 08:40 Analyzed: 06/14/24 15:42

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF40936 Sequence: S4F1431 Calibration: 06/14/24 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.00111	1	U	EPA 6020B
7440-38-2	Arsenic	0.00111	1	U	EPA 6020B
7440-41-7	Beryllium	0.000333	1	U	EPA 6020B
7440-43-9	Cadmium	0.000556	1	U	EPA 6020B
7782-49-2	Selenium	0.00111	1	U	EPA 6020B
7440-28-0	Thallium	0.00111	1	U	EPA 6020B

Metals
Method 6010

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-17

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-01 File ID: QBICP2-061724ARE_1-054

Sampled: 06/12/24 10:30 Prepared: 06/14/24 14:52 Analyzed: 06/17/24 13:10

Solids: 94.29 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40910 Sequence: S4F1742 Calibration: 06/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5460	1	J-	EPA 6010D
7440-36-0	Antimony	2.21	1	U J	EPA 6010D
7440-38-2	Arsenic	2.10	1		EPA 6010D
7440-39-3	Barium	37.5	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.265	1	U	EPA 6010D
7440-70-2	Calcium	1970	1	J-	EPA 6010D
7440-47-3	Chromium	11.8	1		EPA 6010D
7440-48-4	Cobalt	4.40	1		EPA 6010D
7440-50-8	Copper	16.0	1		EPA 6010D
7439-89-6	Iron	10300	1	J	EPA 6010D
7439-92-1	Lead	9.37	1		EPA 6010D
7439-95-4	Magnesium	1740	1	J	EPA 6010D
7439-96-5	Manganese	296	1	J	EPA 6010D
7440-02-0	Nickel	10.0	1		EPA 6010D
7440-09-7	Potassium	906	1	J	EPA 6010D
7782-49-2	Selenium	2.21	1	U	EPA 6010D
7440-22-4	Silver	0.445	1	U J	EPA 6010D
7440-23-5	Sodium	175	1	J-	EPA 6010D
7440-28-0	Thallium	2.21	1	U	EPA 6010D
7440-62-2	Vanadium	17.3	1		EPA 6010D
7440-66-6	Zinc	23.5	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-67

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-02 File ID: QBICP2-061724ARE_1-061

Sampled: 06/12/24 10:45 Prepared: 06/14/24 14:52 Analyzed: 06/17/24 13:30

Solids: 94.32 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40910 Sequence: S4F1742 Calibration: 06/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6350	1		EPA 6010D
7440-36-0	Antimony	2.21	1	U	EPA 6010D
7440-38-2	Arsenic	1.85	1		EPA 6010D
7440-39-3	Barium	38.9	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.265	1	U	EPA 6010D
7440-70-2	Calcium	1620	1		EPA 6010D
7440-47-3	Chromium	14.4	1		EPA 6010D
7440-48-4	Cobalt	4.94	1		EPA 6010D
7440-50-8	Copper	14.1	1		EPA 6010D
7439-89-6	Iron	10300	1		EPA 6010D
7439-92-1	Lead	8.79	1		EPA 6010D
7439-95-4	Magnesium	2570	1		EPA 6010D
7439-96-5	Manganese	265	1		EPA 6010D
7440-02-0	Nickel	10.7	1		EPA 6010D
7440-09-7	Potassium	1870	1		EPA 6010D
7782-49-2	Selenium	2.21	1	U	EPA 6010D
7440-22-4	Silver	0.445	1	U	EPA 6010D
7440-23-5	Sodium	152	1	J-	EPA 6010D
7440-28-0	Thallium	2.21	1	U	EPA 6010D
7440-62-2	Vanadium	19.0	1		EPA 6010D
7440-66-6	Zinc	24.8	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-18

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-03 File ID: QBICP2-061724ARE_1-034

Sampled: 06/12/24 11:00 Prepared: 06/14/24 13:38 Analyzed: 06/17/24 12:14

Solids: 93.50 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40907 Sequence: S4F1740 Calibration: 06/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5040	1	J+	EPA 6010D
7440-36-0	Antimony	2.23	1	U J	EPA 6010D
7440-38-2	Arsenic	1.86	1		EPA 6010D
7440-39-3	Barium	36.2	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.267	1	U	EPA 6010D
7440-70-2	Calcium	1470	1	J	EPA 6010D
7440-47-3	Chromium	13.1	1		EPA 6010D
7440-48-4	Cobalt	4.52	1		EPA 6010D
7440-50-8	Copper	16.7	1		EPA 6010D
7439-89-6	Iron	10900	1	J-	EPA 6010D
7439-92-1	Lead	9.55	1		EPA 6010D
7439-95-4	Magnesium	1860	1	J	EPA 6010D
7439-96-5	Manganese	263	1	J	EPA 6010D
7440-02-0	Nickel	10.1	1		EPA 6010D
7440-09-7	Potassium	944	1	J+	EPA 6010D
7782-49-2	Selenium	2.23	1	U	EPA 6010D
7440-22-4	Silver	0.449	1	U J	EPA 6010D
7440-23-5	Sodium	116	1		EPA 6010D
7440-28-0	Thallium	2.23	1	U	EPA 6010D
7440-62-2	Vanadium	17.0	1		EPA 6010D
7440-66-6	Zinc	26.0	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EP-68

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-04 File ID: QBICP2-061724ARE_1-062

Sampled: 06/12/24 11:20 Prepared: 06/14/24 14:52 Analyzed: 06/17/24 13:33

Solids: 94.02 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BF40910 Sequence: S4F1742 Calibration: 06/17/24 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5500	1		EPA 6010D
7440-36-0	Antimony	2.22	1	U	EPA 6010D
7440-38-2	Arsenic	2.08	1		EPA 6010D
7440-39-3	Barium	37.7	1		EPA 6010D
7440-41-7	Beryllium	0.045	1	U	EPA 6010D
7440-43-9	Cadmium	0.266	1	U	EPA 6010D
7440-70-2	Calcium	1680	1		EPA 6010D
7440-47-3	Chromium	12.8	1		EPA 6010D
7440-48-4	Cobalt	4.62	1		EPA 6010D
7440-50-8	Copper	16.0	1		EPA 6010D
7439-89-6	Iron	9880	1		EPA 6010D
7439-92-1	Lead	9.19	1		EPA 6010D
7439-95-4	Magnesium	1860	1		EPA 6010D
7439-96-5	Manganese	323	1		EPA 6010D
7440-02-0	Nickel	10.0	1		EPA 6010D
7440-09-7	Potassium	907	1		EPA 6010D
7782-49-2	Selenium	2.22	1	U	EPA 6010D
7440-22-4	Silver	0.447	1	U	EPA 6010D
7440-23-5	Sodium	143	1		EPA 6010D
7440-28-0	Thallium	2.22	1	U	EPA 6010D
7440-62-2	Vanadium	18.0	1		EPA 6010D
7440-66-6	Zinc	23.9	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

EB_061224

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Water Laboratory ID: 24F0829-05 File ID: QBI061724A-033

Sampled: 06/12/24 12:00 Prepared: 06/14/24 08:45 Analyzed: 06/17/24 11:39

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF40938 Sequence: S4F1721 Calibration: 06/17/24 1 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.0556	1	U	EPA 6010D
7440-39-3	Barium	0.0278	1	U	EPA 6010D
7440-70-2	Calcium	0.153	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7439-89-6	Iron	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	0.0556	1	U	EPA 6010D
7439-96-5	Manganese	0.00556	1	U	EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	0.0556	1	U	EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D
7440-23-5	Sodium	0.556	1	U	EPA 6010D
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.0278	1	U	EPA 6010D

Mercury
Method 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-17

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-01 File ID:

Sampled: 06/12/24 10:30 Prepared: 06/13/24 15:28 Analyzed: 06/14/24 17:53

Solids: 94.29 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40899 Sequence: S4F1436 Calibration: 06/14/24 1 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0318	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-67

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-02	File ID:	
Sampled:	06/12/24 10:45	Prepared:	06/13/24 15:22	Analyzed:	06/14/24 21:00
Solids:	94.32	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Batch:	BF40897	Sequence:	S4F1440	Calibration:	06/14/24 2
Instrument:	ICP5900-01				

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0318	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-18

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-03 File ID:

Sampled: 06/12/24 11:00 Prepared: 06/13/24 15:22 Analyzed: 06/14/24 21:00

Solids: 93.50 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40897 Sequence: S4F1440 Calibration: 06/14/24 2 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0321	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

EP-68

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-04 File ID:

Sampled: 06/12/24 11:20 Prepared: 06/13/24 15:22 Analyzed: 06/14/24 21:00

Solids: 94.02 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BF40897 Sequence: S4F1440 Calibration: 06/14/24 2 Instrument: ICP5900-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0319	1	U	EPA 7473

Mercury
Method 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

EB_061224

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Water	Laboratory ID:	24F0829-05	File ID:	QBHg06122024A-065
Sampled:	06/12/24 12:00	Prepared:	06/13/24 08:51	Analyzed:	06/13/24 08:51
Solids:	0.00	Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL
Batch:	BF40849	Sequence:		Calibration:	06/13/24 0
Instrument:	Buck 410				

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

Total Solids

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-17

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-01 File ID:

Sampled: 06/12/24 10:30 Prepared: 06/13/24 07:30 Analyzed: 06/13/24 10:34

Solids: 94.29 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40841 Sequence: Calibration: 06/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	94.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-67

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-02 File ID:

Sampled: 06/12/24 10:45 Prepared: 06/13/24 07:30 Analyzed: 06/13/24 10:34

Solids: 94.32 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40841 Sequence: Calibration: 06/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	94.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-18

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24F0829

Client: YU & Associates Project: 22254 43-25 52nd Street

Matrix: Soil Laboratory ID: 24F0829-03 File ID:

Sampled: 06/12/24 11:00 Prepared: 06/13/24 07:32 Analyzed: 06/13/24 10:40

Solids: 93.50 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BF40842 Sequence: Calibration: 06/13/24 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

EP-68

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24F0829
Client:	YU & Associates			Project:	22254 43-25 52nd Street
Matrix:	Soil	Laboratory ID:	24F0829-04	File ID:	
Sampled:	06/12/24 11:20	Prepared:	06/13/24 07:30	Analyzed:	06/13/24 10:34
Solids:	94.02	Preparation:	% Solids Prep	Initial/Final:	5 g / 5 g
Batch:	BF40841	Sequence:		Calibration:	06/13/24 1
Instrument:	Inst				

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	94.0	1		SM 2540G

ATTACHMENT B

CASE NARRATIVE & COC

Report Date: 07/23/2024
Client Project ID: 22254 43-25 52nd Street
York Project (SDG) No.: 24F0829

YU & Associates
611 River Drive, 3rd Floor
Elmwood Park NJ, 07407
Attention: Chengyu Hang

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 12, 2024 and listed below. The project was identified as your project: **22254 43-25 52nd Street**.

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

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

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

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

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F0829-01	EP-17	Soil	06/12/2024	06/12/2024
24F0829-02	EP-67	Soil	06/12/2024	06/12/2024
24F0829-03	EP-18	Soil	06/12/2024	06/12/2024
24F0829-04	EP-68	Soil	06/12/2024	06/12/2024
24F0829-05	EB_061224	Water	06/12/2024	06/12/2024
24F0829-06	TB_061224	Water	06/12/2024	06/12/2024

Work Order Narrative

York Analytical Work Order No.: 24F0829

Client : YU & Associates

Client Project ID : 22254 43-25 52nd Street

Prepared for : Chengyu Hang

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 06/12/2024 7:40 PM

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.1}°C**

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.7}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
EP-17	24F0829-01	Soil	06/12/2024 10:30 AM	06/12/2024 7:40 PM
EP-67	24F0829-02	Soil	06/12/2024 10:45 AM	06/12/2024 7:40 PM
EP-18	24F0829-03	Soil	06/12/2024 11:00 AM	06/12/2024 7:40 PM
EP-68	24F0829-04	Soil	06/12/2024 11:20 AM	06/12/2024 7:40 PM
EB_061224	24F0829-05	Water	06/12/2024 12:00 PM	06/12/2024 7:40 PM
TB_061224	24F0829-06	Water	06/12/2024 12:00 PM	06/12/2024 7:40 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5035A	EPA 8260C
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3510C	EPA 8270D SIM
SVOA	EPA 3550C	EPA 8270D SIM
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3015A	EPA 6010D
METALS	EPA 3050B	EPA 6010D
METALS	EPA 3015A	EPA 6020B
HG	EPA SW846-7470A	EPA 7470
HG	EPA 7473 soil	EPA 7473
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 24F0829

Page _____ of _____

Report To:	Invoice To:
Company: Yu & Associates	Company:
Address: 611 River Drive, Elmwood Park, NJ 07407	Address:
Phone.: 201-873-7543	Phone.:
Contact: Chengyu Hang	Contact:
E-mail: Chang@yu-associates.com	E-mail:

YOUR Project Name / Number: 22254

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day ✓ | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

MATTHEW O'ROURKE

Matthew O'Rourke

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	TCL VOCs	TCL SVOCs	TAL Metals	Pest/PCBs	Grab or Comp. G/C
EP-17	6/12/24	1030	S	4		1								✓	✓	✓	✓	
EP-17-MS		1035												✓	✓	✓	✓	
EP-17-MSD		1040												✓	✓	✓	✓	
EP-67		1045												✓	✓	✓	✓	
EP-18		1100												✓	✓	✓	✓	
EP-18-MS		1105												✓	✓	✓	✓	
EP-18-MSD		1115												✓	✓	✓	✓	
EP-68	↓	1120	↓	↓		↓								✓	✓	✓	✓	
EB-061224	↓	1200	W	4	3		1							✓	✓	✓	✓	
TB-061224			W		2									✓				

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; ~~NJ Reduced~~; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered | Lab Filtered

Comments: Rush TAT for metals, VOCs only

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

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N

COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N

Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company	Date/Time
Matthew O'Rourke YU	14:00 6/12/24
2. Samples Received by / Company	Date/Time
YRJ	6/12/24 1435 3.1c
4. Samples Relinquished by / Company	Date/Time
Roman Duran	6/12/24 19:40

1. Samples Received by / Company	Date/Time
[illegible]	6/12/24 14
3. Samples Relinquished by / Company	Date/Time
YRJ 6/12/24	80
4. Samples Received by / Company	Date/Time

2. Samples Relinquished by / Company	Date/Time
[illegible]	6/12/24 14
3. Samples Received by / Company	Date/Time
Roman Duran	6/12/24 19:40
Samples Received in LAB by	Date/Time / Temperature
KMA	6/12/24 19:40 3.7 Degrees C

Appendix M — Foundation Plan

A. GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE NEW YORK CITY BUILDING CODE & OSHA REQUIREMENTS. CONTRACTOR TO PROVIDE ALL NECESSARY SAFETY MEANS TO PROTECT ALL PERSONALS, ADJACENT AND EXISTING PROPERTIES, ETC, AS REQUIRED.
2. BEFORE COMMENCING WORK, CONTRACTOR SHALL ASCERTAIN THE LOCATIONS AND PROTECT ALL UTILITIES, EITHER ABOVE GROUND OR UNDERGROUND THAT MAY BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY AND OBTAIN PERMITS FROM GOVERNING AGENCIES, INCLUDING BUT NOT LIMITED TO DOB, DEP, DOT, CONEDISON, ETC, AS NECESSARY.
3. BEFORE COMMENCING WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD, COORDINATE SOE DESIGN WITH ARCHITECTURAL, STRUCTURAL AND OTHER APPLICABLE DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE DESIGN APPLICANTS FOR EVALUATION.
4. CONTRACTOR SHALL NOTIFY NYC DOB 24 TO 48 HOURS BEFORE COMMENCING WORK (BC3304.3.1).
5. NOTICE TO ADJACENT PROPERTY OWNERS SHALL BE PROVIDED AS PER NYC BC3304.3.2 & 3309.1.1.
6. PRE-CONSTRUCTION INSPECTION OF THE ADJACENT BUILDINGS AND MONITORING SURVEYING SHALL BE CONDUCTED PER NYC BC CHAPTER 3309 REQUIREMENT. WHEN PERMISSION TO ENTER ADJOINING PROPERTY IS OBTAINED, A PHYSICAL EXAMINATION OF INTERIOR OF SUCH PROPERTY SHALL ALSO BE CONDUCTED BY THE PERSON INITIATING THE CONSTRUCTION OPERATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. A SPECIAL INSPECTION AGENCY SHALL BE RETAINED BY THE OWNER TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS AS PER NYC BUILDING CODE REQUIREMENTS.
8. ELEVATIONS SHOWN ON THE PLANS AND SECTIONS ARE RELATIVE TO NAVD 1988.

B. EXCAVATION NOTES:

1. THE PERIMETER OF THE GENERAL EXCAVATION SHALL BE RETAINED AND PROTECTED BY THE SOE SYSTEM WHERE APPLICABLE. THE INSTALLATION, MAINTENANCE AND REMOVAL (WHERE REQUIRED) OF THE SOE SYSTEM SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE AND OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOE SYSTEM, IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. PRIOR TO ANY EXCAVATION OR INSTALLATION OF ELEMENTS OF THE SOE SYSTEM, THE CONTRACTOR SHALL ESTABLISH SURVEY POINTS AROUND THE PERIMETER OF THE AREA TO BE EXCAVATED AND OTHER POINTS UP TO 200 FEET BEYOND THE PERIMETER AS NECESSARY. THESE POINTS SHALL BE SURVEYED FOR VERTICAL AND HORIZONTAL MOVEMENT AT FREQUENT INTERVALS DURING ACTUAL EXCAVATION AND CONTINUING DURING EACH SUBSEQUENT PHASE OF THE WORK AND SUBMITTED TO THE ENGINEER FOR INFORMATION
3. THE GENERAL EXCAVATION ACROSS THE SITE SHALL NOT EXTEND DEEPER THAN THE SLAB-ON-GRADE SUBGRADE ELEVATION. THE EXCAVATIONS FOR FOOTINGS, GRADE BEAMS, PILE CAPS, MATS, PITS, SLABS, ETC. SHALL BE EXCAVATED ON AN INDIVIDUAL, LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE LEVEL.
4. ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS AS MAY BE NECESSARY BASED ON A DESIGN USING APPROPRIATED EARTH AND HYDRAULIC PRESSURES AND OTHER CONSTRUCTION LOADINGS.
5. THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW/ICE.
6. DRAINAGE DURING CONSTRUCTION SHALL CONFORM TO BC 3303.14. PROVISIONS SHALL BE MADE TO PREVENT THE ACCUMULATION OF WATER OR WATER DAMAGE TO ANY FOUNDATIONS ON THE PREMISES OR TO ADJOINING PROPERTY (3303.14.1); DRAINAGE OF EXCAVATIONS SHALL CONFORM TO BC 3303.14.2.
7. THE CONTRACTOR SHALL PROVIDE, INSTALL AND SURVEY: (A) VERTICAL AND HORIZONTAL MOVEMENTS OF THE TOP OF THE SOIL RETENTION SYSTEM: AND (B) BENCH MARKS ADJACENT TO AND AWAY FROM THE SITE PERIMETER FOR VERTICAL AND HORIZONTAL MOVEMENTS.
8. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDERFLOOR UTILITY AND GROUNDING REQUIREMENTS.
9. ANY OPEN CUT AREAS SHALL HAVE A MINIMUM SLOPE OF 1 HORIZ. TO 1 VERTICAL. U.N.O
10. EXCAVATED MATERIAL AND SUPERIMPOSED LOADS SUCH AS EQUIPMENT AND TRUCK SHALL NOT BE PLACED CLOSER TO THE EDGE OF THE EXCAVATION THAN A DISTANCE EQUAL TO ONE AND ONE-HALF TIMES THE DEPTH OF SUCH EXCAVATION.
11. ALL OPEN EDGES OF AN EXCAVATION THAT ARE 6 FT OR GREATER IN DEPTH SHALL BE PROTECTED BY A GUARDRAIL SYSTEM MEETING THE REQUIREMENTS OF SECTIONS 3308.7.1 THROUGH 3308.7.5, OR BY A SOLID ENCLOSURE AT LEAST 3 FT 6 IN HIGH (BC3304.4.4). REQUIRED PROTECTION FOR THE SIDES OF THE EXCAVATION SHALL BE INSTALLED AS THE EXCAVATION ADVANCES (BC3304.4.6)
12. CONSTRUCTION FENCE SHALL BE PROVIDED PER NYC BC 3304.4.3.
13. BEFORE COMMENCEMENT OF CONSTRUCTION, A SITE SAFETY PLAN (SSP) SHALL BE PREPARED FOR THE SITE-SPECIFIC SAFETY AND PROTECTION REQUIREMENT DURING SOE WORK PER NYC BC CHAPTER 33. THE SSP SHALL ALSO INCLUDE DETAILS FOR TREE PROTECTIONS (BC 3309.11), PROTECTION OF PEDESTRIAN (BC 3307.2 & BC 3307.6.2.), ETC, AS APPLICABLE.

C. TIMBER LAGGING NOTES

1. TIMBER LAGGING SHALL BE MINIMUM THREE-INCH (FULL) THICKNESS. TIMBER LAGGING SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF 1200 PSI.
2. LAGGING SHALL BE INSTALLED SUCH THAT GAPS BETWEEN THE LAGGING BOARDS DO NOT EXCEED ONE INCH. VOIDS IN THE RETAINED EARTH BEHIND THE TIMBER LAGGING SHALL BE BACKFILLED WITH PEA GRAVEL (OR EQUIVALENT GRANULAR MATERIAL). AND THE GAPS BETWEEN THE TIMBER LAGGING SHALL BE PACKED WITH HAY AS REQUIRED TO PREVENT EROSION OF THE RETAINED SOIL BUT STILL ALLOW GROUNDWATER TO SEEP OUT.
3. THE MAXIMUM EXPOSED HEIGHT OF SOIL IN FRONT OF THE WALL SHALL NOT EXCEED 2FT PRIOR TO INSTALLING TIMBER LAGGING.

F. GENERAL UNDERPINNING SEQUENCE & NOTES

1. STARTING WITH SEGMENTS A ONLY, EXCAVATE TO BOTTOM OF EXISTING FOOTING ELEVATION AND EXTEND EXCAVATION LATERALLY TO ALLOW UNDERPINNING EXCAVATION TO BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS.
2. EXCAVATE UNDERPINNING PIT, 3'-0" WIDE MAXIMUM (UNLESS AS SPECIFIED ON PLAN) WITH HAND SHOVELS AND INSTALL TIMBER LAGGING AS REQUIRED AND AS SHOWN ON DRAWINGS. ALL PITS TO BE SHEETED ON ALL FOUR SIDES. PACK VOIDS BETWEEN SHEETING AND SOIL WITH CEMENT. LEAVE A MINIMUM OF 12'-0" OF EXISTING SOIL BETWEEN PITS. EACH UNDERPINNING PIT EXCAVATION SHALL BE PROTECTED FROM ADVERSE WEATHER AND UNDER NO CIRCUMSTANCES SHALL UNDERPINNING PIT EXCAVATION BE LEFT OPEN OVER NIGHT.
3. CLEAN BOTTOM OF EXISTING FOOTING WITH HAND EXCAVATION TO AVOID DISTURB SUBGRADE AND COMPACT THE SOIL AT BOTTOM. LOSS OF GROUND SHOULD BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH GROUT PUMPED INTO THE VOIDS.
4. POUR CONCRETE INTO UNDERPINNING PIT WITHIN 2 IN NEW CONCRETE FOR THE UNDERPINNING PITS. BACKFILL APPROACH PIT FOR TERMPORARY BRACING. ALLOW CONCRETE TO CURE FOR AT LEAST 24 HOURS.
5. 5A. HAMMER IN THE TAPERED STEEL SHIM PLATES (3" WIDE X 1'-6" LONG MIN. @ 1'-6" O.C)

   5B. IF NO HORIZONTAL REBARS ARE REQUIRED, THE SPACE SHOULD BE DRYPACKED AFTER THE TAPERED SHIM PLATES ARE TIGHTENED.

   5C. WHERE HORIZONTAL REBARS ARE REQUIRED FOR UNDERPINNING, THE TAPERED SHIM PLATES OF PIN A SHALL BE HAMMER-TIGHTENED AGAIN ("ADDITIONAL TIGHTENING") AFTER THE TAPERED STEEL SHIMS OF THE ADJACENT PINS B & E ARE HAMMER-TIGHTENED, AND THE SPACE SHOULD THEN BE DRYPACKED.
6. REPEAT 1~6 FOR SECTION B,C,D,E. (SEE PLAN).
7. 7A. WHERE HORIZONTAL REBARS ARE REQUIRED FOR UNDERPINNING, EACH PIN (EXCEPT THE LAST ONES) SHOULD RECEIVE AN ADDITIONAL TIGHTENING AS DESCRIBED IN STEP 5 AFTER THE NEXT PIN IS TIGHTENED. DRYPACK SHOULD BE APPLIED AFTER THE STEEL SHIMS HAVE BEEN INSTALLED AT BOTH OF THE ADJACENT PINS.

   7B. FOR DOUBLE TIER UNDERPINNING (IF REQUIRED) AFTER COMPLETION OF UNDERPINNING TIER 1, SOIL BEHIND EACH FINISHED SEGMENT SHALL BE BACKFILLED TO THE BERM LEVEL BEFORE PROCEED TO NEXT SEGMENT. INSTALL REQUIRED BRACING FOR TIER 1 PER PLAN. REPEAT STEP 1 TO STEP 7A FOR UNDERPINNING TIER 2. HAMMER IN TAPERED STEEL SHIMS @ 1'-6" O.C. BETWEEN 1ST TIER AND 2ND TIER BEFORE DRYPACKING, AND EACH PIN (EXCEPT THE LAST ONES) SHOULD RECEIVE AN ADDITIONAL TIGHTENING AFTER THE NEXT PIN IS TIGHTENED.
8. WHEN BOTTOM OF ADJACENT UNDERPINNING PITS ARE AT DIFFERENT ELEVATION, THE DEEPER PIT SHALL BE INSTALLED FIRST.
9. UNDERPINNING PITS CLOSER THAN 12' APART SHALL NOT BE EXCAVATED AT THE SAME TIME.
10. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI (UNLESS AS SPECIFIED ON PLAN) AT 28 DAYS.
11. ALL GROUT SHALL BE NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI (UNLESS SPECIFIED ON PLAN).
12. ALL DRYPACK SHALL BE MIXTURE OF 1 PART CEMENT AND 2 PARTS DAMP SAND, WITH 0'" SLUMP.
13. ALL UNDERPINNING SHALL BEAR ON UNDISTURBED, DRY SUBGRADE. THE ENGINEER RESPONSIBLE FOR THE SPECIAL INSPECTION OF UNDERPINNING SHALL INSPECT AND APPROVE THE SUBGRADE PRIOR TO CASTING CONCRETE.
14. APPROACH PIT WITH TIMBER-LAGGING SHORING SHALL BE PROVIDED UNLESS APPROPRIATE SLOPE EXCAVATION CAN BE PROVIDED.
15. PRIOR TO UNDERPINNING, THE ADJACENT BUILDING FOUNDATION WALL SHALL BE PARGE-COATED USE SAND-CEMENT MORTAR UPON EXPOSED. IF THE EXISTING WALLS ARE FOUND TO BE WATER-PROOFED, THE WEATHERPROOF SHALL BE RESTORED AND PROTECTED INSTEAD OF PARGE-COATING.
16. EXCAVATION BELOW THE WATER TABLE SHOULD BE AVOIDED. IF POSSIBLE, DEWATER THE SITE PRIOR TO EXCAVATION. EXCAVATION MAY ONLY PROCEED AFTER REVIEW BY THE ENGINEER OF RECORD.
17. ALL SIDES OR SLOPE OF EXCAVATIONS OR EMBANKMENTS SHALL BE INSPECTED AFTER RAINSTORMS.
18. THE EXPOSED FACE OF THE UNDERPINNING CONCRETE SHOULD BE VERTICAL (OR AS OTHERWISE SPECIFIED), CLEAN AND NEAT, UPON COMPLETION
19. PERMISSIONS AND/OR LICENSE AGREEMENT SHALL BE OBTAINED FROM THE ADJACENT BUILDING OWNER(S) FOR THE UNDERPINNING WORK.
20. A PRECONSTRUCTION INVESTIGATION OF ADJACENT BUILDING(S) SHALL BE CONDUCTED AND REPORT SHALL BE PREPARED BY AN ENGINEER HIRED BY THE OWNER/CONTRACTOR PER NYC BC CHAPTER 1814 & 3309.
21. THE OWNER/CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO SURVEY ALL LOAD BEARING WALL, PIERS AND COLUMNS TO BE UNDERPINNED. THE SURVEYOR SHALL CHECK THE DATUM OF SUCH STRUCTURAL ELEMENTS EVERY TWO WEEKS FOR THE DURATION OF THE WORK. LANDMARK BUILDINGS SHALL BE CHECKED EVERY FIVE WORKING DAYS MIN. UNLESS OTHERWISE NOTED ON THIS DRAWING OR REQUIRED BY RELEVANT PARTIES
22. THE CONTRACTOR AND/OR SUB-CONTRACTOR(S) SHALL HAVE COMPLETED NO LESS THAN FIVE (5) UNDERPINNING PROJECTS OF A COMPARABLE SIZE AND TYPE TO THE PROJECT, AND MUST HAVE AT LEAST FIVE (5) YEARS EXPERIENCE IN THE WORK AND/OR APPLICABLE TRACE. SUBMIT EVIDENCE OF SUCH EXPERIENCE FOR REVIEW.
23. A PRE-CONSTRUCTION MEETING SHALL BE HOLD WITH THE OWNER, ARCHITECT, ENGINEER OF RECORD, SPECIAL INSPECTOR, GENERAL CONTRACTOR AND SUB-CONTRACTOR(S) PRIOR TO WORK COMMENCING.
24. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL UNDERPINNING REQUIREMENTS IF APPLICABLE.

G. SURVEY & MONITORING NOTES:

1. MONITORING OF ADJACENT BUILDINGS/STRUCTURES SHALL CONFORM TO THE REQUIREMENT OF NYC BC 3309.4.4, 3309.16 AND TPPN #10/88.
2. WHEN PERMISSION TO ENTER ADJACENT PROPERTY IS GRANTED, A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT BUILDING(S)/STRUCTURE(S) SHALL BE PREFORMED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH THE RESULTS OF THE SURVEY AND SHALL ALSO MAKE A VISUAL INSPECTION OF THE ADJACENT STRUCTURES (INSIDE AND OUT) PRIOR TO COMMENCEMENT OF THE WORK. INSPECTIONS OF THE ADJACENT BUILDINGS DURING CONSTRUCTION SHALL ALSO BE CONDUCTED IF REQUIRED AND PERMITTED.
3. OPTICAL MONITORING CRITERIA:
   - A LICENSED SURVEYOR SHALL BE ENGAGED TO MONITOR THE ADJOINING BUILDINGS AND STRUCTURES BY OPTICAL MONITORS SET UP AT ABOUT 25-FT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT. THE APPROXIMATE OPTICAL MONITORING LOCATIONS ARE SHOWN ON THE MONITORING/SOE PLAN.
   - OBTAIN BASELINE READINGS (HORIZONTAL AND VERTICAL DATA) OF THE MONITORING POINTS PRIOR TO EXCAVATION AND NEW CONSTRUCTION.
   - PERFORM OPTICAL SURVEYS DAILY DURING UNDERPINNING CONSTRUCTION, AND AT LEAST TWICE PER WEEK DURING SOE PHASE AND ONCE A WEEK DURING FOUNDATION CONSTRUCTION TILL 1ST FLOOR SLAB IS CASTED. IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS RECOMMENDED BY ENGINEER.
4. CRACK MONITORING:
   - CRACK GAUGES SHALL BE INSTALLED ON OBSERVED (ADJOINING BUILDINGS/STRUCTURES) CRACKS TO MONITOR THE CRACK STATUS DURING SOE/UNDERPINNING FOUNDATION OPERATIONS IF APPLICABLE. BASELINE READINGS SHALL BE CONDUCTED UPON INSTALLATION OF CRACK MONITORS. FREQUENCY OF CRACK MONITORING READING SHOULD BE THE SAME AS OPTICAL MONITORING.
5. VIBRATION MONITORING:
   - VIBRATION MONITORS (SEISMOGRAPHS) SHALL BE PLACED ADJACENT TO OR WITHIN THE ADJACENT BUILDINGS (IF PERMITTED), CLOSE TO THE VIBRATION SOURCE.
   - VIBRATION MONITORING SHALL TAKE REAL-TIME READINGS.
6. BUILDING MOVEMENT AND VIBRATION CRITERIA:
   A. ALL DATA READING FREQUENCIES SHALL COMPLY WITH TPPN 10/88.

   B. IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/8-INCH OR ANY CRACK GAUGE READING REACHES 2MM, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER.

   C. IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/4-INCH OR ANY CRACK GAUGE READING REACHES 3MM, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER AND ENGINEER, UPON ASSESSMENT OF THE FIELD CONDITIONS AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES.

   D. IF THE VIBRATIONS EXCEED 0.5-IPS, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER AND ENGINEER, UPON ASSESSMENT OF THE FIELD CONDITIONS AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES.
7. ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER AT THE END OF EACH DAY, OR AT AGREED-UPON INTERVALS.
8. PRE-CONSTRUCTION REPORT AND MONITORING REPORT/DATA SHALL BE MADE AVAILABLE TO DOB UPON REQUEST.

SUMMARY OF MOVEMENT CRITERIA			
TYPE	BASELINE	WARNING POINT	STOP WORK
CRACK MONITOR	0	2MM	3MM
VIBRATION MONITOR	0	0.4-IPS	0.5-IPS
OPTICAL MONITOR	0	1/8"	1/4"

H. SOIL, SUBGRADE & GROUND WATER NOTES:

SEE BORING REPORT DATED NOV 11, 2022 BY PROFESSIONAL SOLUTIONS GROUP, INC, THE EXPECTED SOIL TYPE AT BOTTOM OF FOOTING ELEVATION IS CLASS 3b SOIL WITH 3 TON/FT^2 BEARING CAPACITY.

NO GROUNDWATER ENCOUNTERED DURING THE BORING TEST.

J. ECCNYC STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, ALL SOE WORK UNDER THIS APPLICATION IS EXEMPT FROM ENERGY CONSERVATION CODE OF NEW YORK CITY (2020), IN ACCORDIANCE WITH THE SCOPE OF WORK INVOLVES A TEMPORARY STRUCTURE.

K. ELEVATION NOTE:

ALL ELEVATIONS IN THE DRAWING ARE NAVD 1988, UNLESS OTHERWISE NOTED.

L. LANDMARK NOTES

THIS BUILDING IS NOT A LANDMARK BUILDING AND IS NOT WITHIN 90 FT OF A LANDMARK STRUCTURE.

M. CONCRETE NOTES:

1. DESIGN MATERIALS AND METHOD OF CONSTRUCTION SHALL COMPLY WITH NEW YORK CITY BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 OF THE AMERICAN CONCRETE INSTITUTE.
2. THE ULTIMATE DESIGN STRENGTH AT 28 DAYS FOR ALL CONCRETE SHALL BE 4000 PSI.
3. ALL CONCRETE FORM WORK SHALL BE CLEAN AND FREE FROM ANY DEBRIS.

N. TR1 SPECIAL INSPECTION:

SPECIAL AND PROGRESS INSPECTIONS SHALL BE PERFORMED AS PER THE NEW YORK CITY BUILDING CODE FOR ALL THE FOLLOWING ITEMS:

1. UNDERPINNING
2. STRUCTURAL STABILITY - EXISTING BUILDINGS
3. FINAL

O. SCOPE OF WORK:

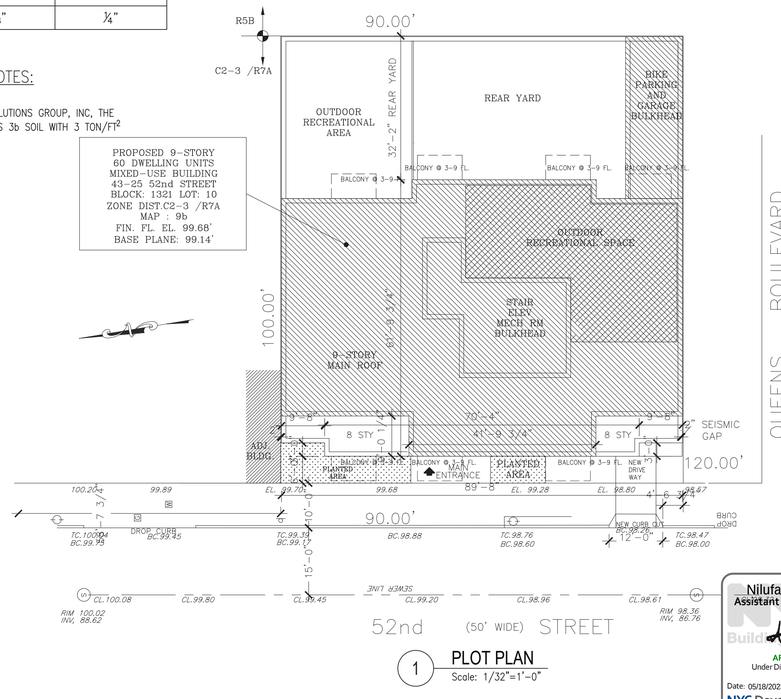
UNDERPINNING DESIGN TO FACILITATE THE CONSTRUCTION OF 9-STORY FOUNDATION. DOBNOW NB #Q00711760-I1

P. RELATED APPLICATION

NB: Q00711760-I1
SE: Q00711761-S1
FO: Q00711760-S2
ST: Q00711760-S3

Q. LIST OF DRAWINGS:

FO-200: GENERAL NOTES AND PLOT PLAN
FO-201: UNDERPINNING PLAN
FO-202: ELEVATION AND SECTION
FO-203: UNDERPINNING TYPICAL DETAILS



PROPOSED 9-STORY
60 DWELLING UNITS
MIXED-USE BUILDING
43-25 52nd STREET
BLOCK: 1321 LOT: 10
ZONE DIST.C2-3 /R7A
MAP : 9b
FIN. FL. EL. 99.68'
BASE PLANE: 99.14'

1 PLOT PLAN
Scale: 1/32"=1'-0"

PROJECT NAME:

4325 52 LLC

ARCHITECT:
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Key Plan

Examiner Stamp

No	Date	Description
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Project:

PROPOSED A
9-STORY RESIDNETIAL
BUILDING
43-25 52ND ST
FLUSHING, NY 11377

Drawing Title

GENERAL NOTES AND PLOT PLAN

Stamp

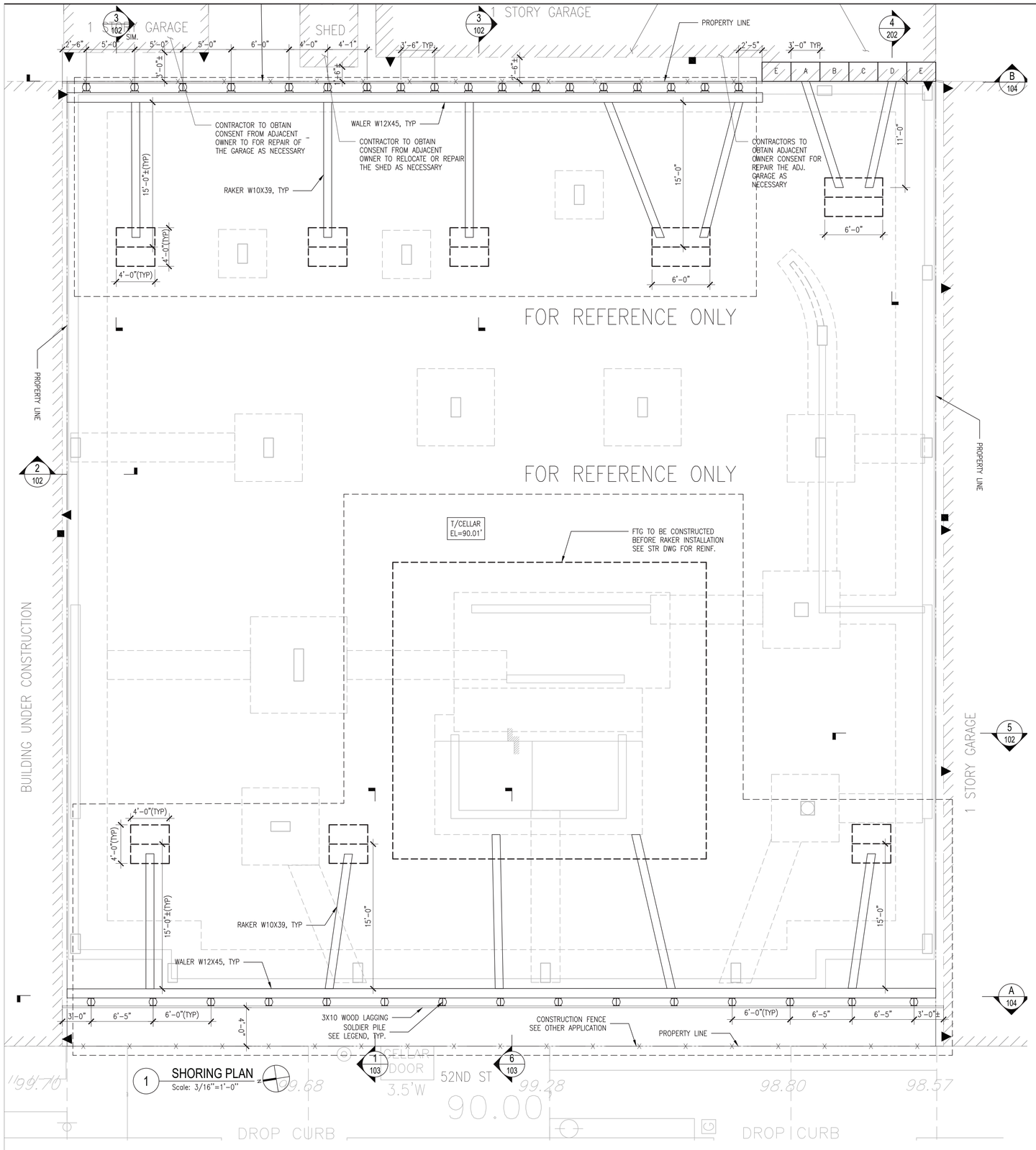
STATE OF NEW YORK — JING WANG — 036043 — PROFESSIONAL ENGINEER

Nilufar Roushan
Assistant Plan Examiner

DOBNOW #
APPROVED
Under Directive 2 of 1975
Date: 05/18/2023
NYC Development Hub

Sheet No:	1 OF 4
Scale	AS NOTED
Date	05/11/2023
Project No.	2201220
Drawn By:	TJ
Drawing No.	FO-200.00

Q00711760-Z2



1 **SHORING PLAN**
Scale: 3/16"=1'-0"

LEGEND:

- INDICATE APPROX. OPTICAL MONITORING LOCATION ON ADJ. BLDG WALL FOR REQUIREMENT, SEE GENERAL NOTES
- INDICATE APPROX. VIBRATION MONITORING LOCATION ON ADJ. BLDG WALL. SEE GENERAL NOTES FOR REQUIREMENTS.
- DRILL INSTALLED ø9.625X0.545 (API N80) SOLDIER PILE WITH F'c=4000 PSI MIN. LEAN CONCRETE/GROUT INFILL.
- ALT W10X39

NOTES:

1. ALL DIMENSIONS, ELEVATIONS & ADJACENT BUILDINGS INFORMATION SHALL BE VERIFIED WITH ARCHITECTURAL, STRUCTURAL DRAWINGS AND IN FIELD BEFORE AND DURING CONSTRUCTION. TEST PITS OF ADJACENT BUILDING SHALL BE PERFORMED. ANY DISCREPANCIES AND FIELD CONDITIONS SHALL BE REPORTED TO EOR FOR EVALUATION UPON DISCOVERING.
2. ALL EXCAVATION WORK SHALL CONFORM TO THE REQUIREMENT OF NEW YORK CITY BUILDING CODE, CHAPTER 33, THE CONTRACTOR SHALL ENSURE THE SAFETY & STABILITY OF THE ADJACENT STRUCTURES AT ANYTIME THROUGHOUT THE CONSTRUCTION.
3. ANY EXCAVATION DEEPER THAN 5 FEET SHALL BE PROTECTED AND MAINTAINED BY SHORING, BRACING, SHEETING OR BY OTHER RETAINING STRUCTURES PER B.C. 3304.4
4. WOOD LAGGING TO BE INSTALLED IMMEDIATELY AFTER SOIL IS REMOVED. NO MORE THAN 24" HIGH SOIL SHALL BE EXPOSED W/O PROTECTION OF LAGGING.
5. THE TEMPORARY BRACINGS SHALL REMAIN IN PLACE UNTIL 1ST FLOOR SLAB IS HARDENED.
6. CONTRACTOR SHALL OBTAIN PERMISSIONS FROM ADJACENT PROPERTY OWNER FOR ANY WORK BEYOND PROPERTY LINE.
7. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM DEPARTMENT OF TRANSPORTATION FOR ANY WORK ON SIDEWALKS.
8. CONTRACTOR SHALL PROVIDE STAYFORM WHEN POURING CONCRETE AGAINST ADJACENT BUILDING WALL PER NYC DOB BB 2009-011.
9. FOR GENERAL NOTES & OTHER BALANCE INFORMATION, SEE SOE-100; FOR SECTIONS SEE SOE-102; FOR TYPICAL DETAIL SEE SOE-104. REFER TO FOUNDATION DWG FOR FOUNDATION INFO. REFER TO SSP DWG FOR SITE SAFETY REQUIREMENT.
10. REFER TO ARCHITECTURAL DWG FOR WATER/DAMP PROOFING REQUIREMENTS.
11. UNDERPINNING REINFORCEMENT TO BE #5@12" EACH FACE HORIZONTAL & VERTICAL..

FOR UNDERPINNING CONSTRUCTION OF ADJACENT 1 STORY BUILDING AT EXPOSURE 4:

1. START FROM SEGMENTS A OF TIER 1, EXCAVATE UNDERPINNING PIT DOWN TO PROPOSED DEPTH & INSTALL THE SHORING BOX AS PER TYPICAL DETAILS. REMOVE & PATCH ANY LOOSE BRICKS & VOIDS BETWEEN THEM BEFORE PIT EXCAVATION. INSTALL REBAR AND FORM WORK.
2. PLACE CONCRETE FOR THE UNDERPINNING SEGMENTS A. AFTER CONCRETE PLACEMENT, BACKFILL THE APPROACH PIT FOR TEMPORARY BRACING.
3. ALLOW CONCRETE TO CURE FOR AT LEAST 24 HOURS AND ATTAINS MIN. 50% OF DESIGNED STRENGTH, THEN HAMMER IN THE TAPERED STEEL SHIMMING PLATES & DRY PACK.
3. REPEAT STEP 1~3 FOR SEGMENT B, C, D & E OF TIER 1.
4. AFTER ALL SEGMENTS OF TIER 1 ARE COMPLETED, MAINTAIN THE HORIZONTAL EARTH BERM AND SPOT/SLOPE EXCAVATE TO CONSTRUCT FOOTBLOCK FOR RAKER SUPPORT.
5. AFTER CONCRETE IS CURED AND ATTAINS MIN. 50% OF DESIGNED STRENGTH, SLOPE/CHANNEL EXCAVATE TO INSTALL RAKER AS PER PLAN AND SECTION.
6. AFTER THE 1ST TIER UNDERPINNING IS FIRMLY BRACED, CONTINUE TO TIER 2 UNDERPINNING CONSTRUCTION PER STEPS 1-3.
7. AFTER ALL UNDERPINNING IS CONSTRUCTED AND BRACED, CONTINUE TO CONSTRUCT FOUNDATIONS.
8. CONTINUE TO CONSTRUCT FOUNDATION WALLS.

NOTE:
AT INTERSECTIONS BETWEEN SHORING AND UNDERPINNING, THE EXCAVATION AND INSTALLATION OF SHORING AND LAGGING SHALL PROCEED SIMULTANEOUSLY WITH THE CONSTRUCTION OF ADJOINING UNDERPINNING FOR PROTECTION OF THE ADJACENT FOOTING AND STABILITY OF SOIL.

PROJECT NAME:

4325 52 LLC

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Key Plan

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No	Date	Description
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Project:

PROPOSED A
9-STORY RESIDNETIAL
BUILDING
43-25 52ND ST
FLUSHING, NY 11377

Drawing Title

UNDERPINNING PLAN

Stamp

STATE OF NEW YORK JIAG WANG 085045 LICENSED PROFESSIONAL ENGINEER

Sheet No:	2 OF 4
Scale	AS NOTED
Date	05/11/2023
Project No.	2201220
Drawn By:	TJ
Drawing No.	FO-201.00

Nilufar Roushad
Assistant Plan Examiner
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Under Directive 2 of 1975
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NYC Development Hub
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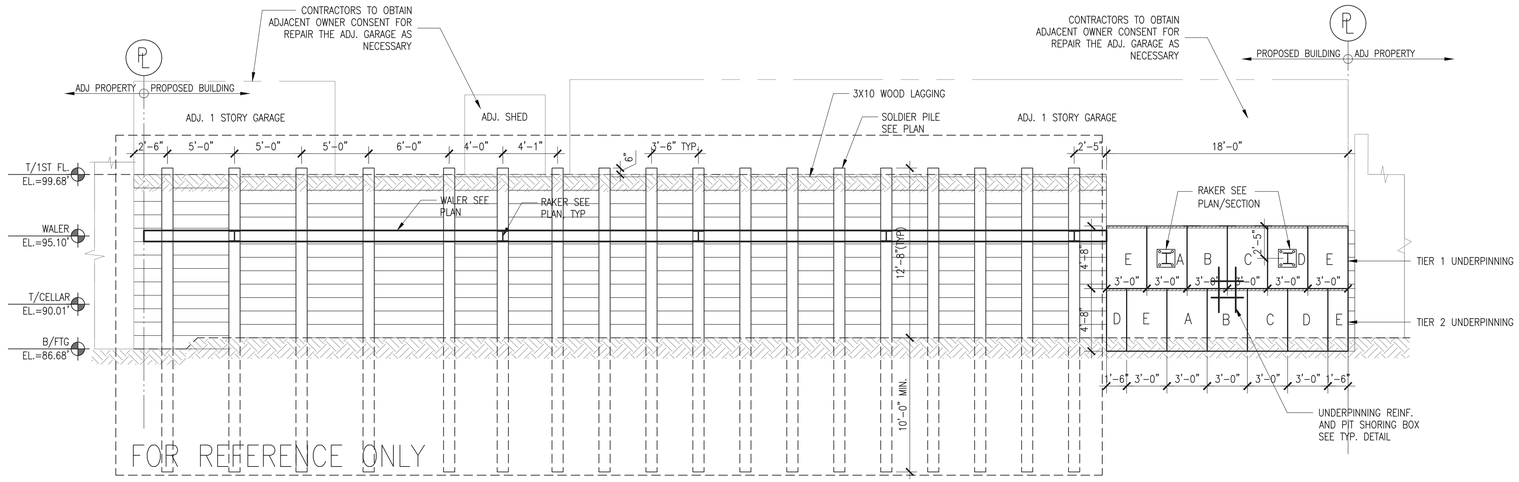
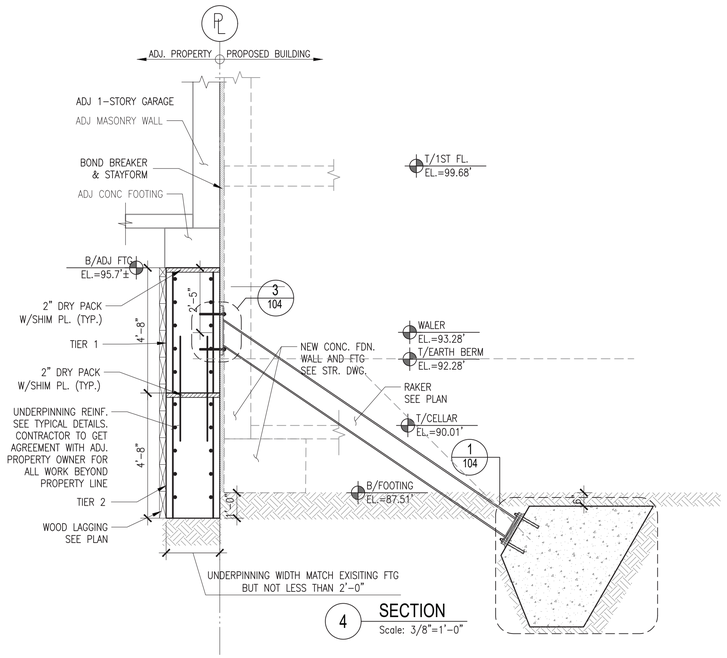


B ELEVATION AT EXPOSURE 3

Scale: 3/16"=1'-0"



4 SECTION

Scale: 3/8"=1'-0"

PROJECT NAME:

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Key Plan

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FLUSHING, NY 11377

Drawing Title

ELEVATION AND SECTION

Stamp

STATE OF NEW YORK · HSIUNG WANG · 23804 · PROFESSIONAL ENGINEER

Sheet No:	3 OF 4
Scale	AS NOTED
Date	05/11/2023
Project No.	2201220
Drawn By:	TJ
Drawing No.	FO-202.00

Nilufar Roushad
Assistant Plan Examiner
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Date: 05/18/2023
NYC Development Hub

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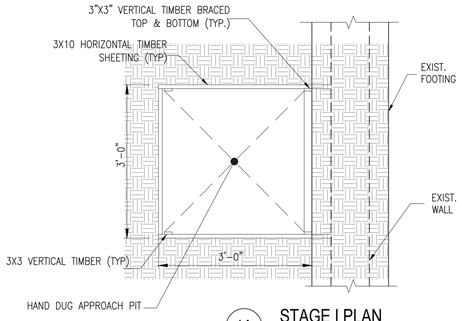
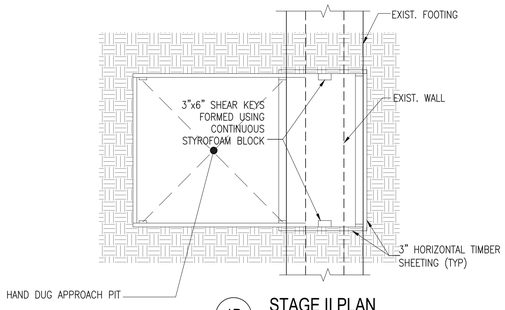
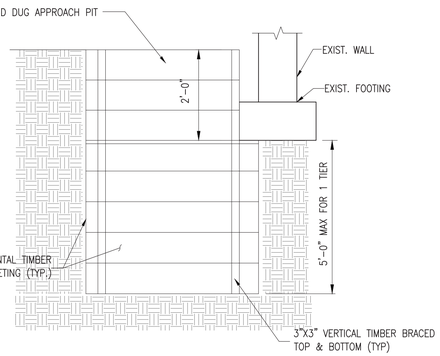


1A STAGE I PLAN
SCALE: N.T.S



1B STAGE II PLAN
SCALE: N.T.S



1C STAGE I SECTION
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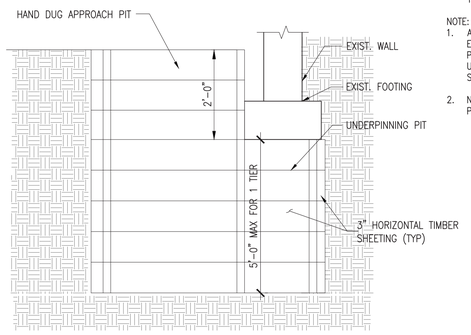


1D STAGE II SECTION
SCALE: N.T.S

1 UNERPINNING PIT SHEETING DETAIL
SCALE: N.T.S

NOTE:

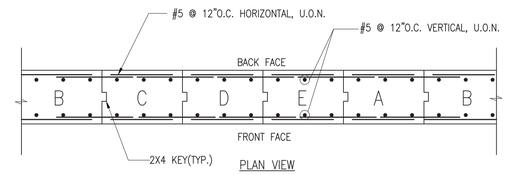
TIMBER SHEETING TO BE INSTALLED IMMEDIATELY AFTER SOIL IS REMOVED. NO MORE THAN 2'-0" HIGH SOIL SHALL BE EXPOSED W/O PROTECTION OF SHEETING.

RECOMMENDED CONSTRUCTION PROCEDURE FOR UNDERPINNING OF ADJACENT 2 STORY BUILDING:

1. START FROM SEGMENTS A OF TIER 1, EXCAVATE UNDERPINNING PIT DOWN TO PROPOSED DEPTH & INSTALL THE SHORING BOX AS PER TYPICAL DETAILS. REMOVE & PATCH ANY LOOSE BRICKS & VOIDS BETWEEN THEM BEFORE PIT EXCAVATION. INSTALL REBAR AND FORM WORK.
2. PLACE CONCRETE FOR THE UNDERPINNING SEGMENTS A. AFTER CONCRETE PLACEMENT, BACKFILL THE APPROACH PIT FOR TEMPORARY BRACING.
3. ALLOW CONCRETE TO CURE FOR AT LEAST 24 HOURS AND ATTAINS MIN. 50% OF DESIGNED STRENGTH, THEN HAMMER IN THE TAPERED STEEL SHIMMING PLATES & DRY PACK.
4. REPEAT STEP 1~3 FOR SEGMENT B, C, D & E OF TIER 1.
5. AFTER ALL SEGMENTS OF TIER 1 ARE COMPLETED, MAINTAIN THE HORIZONTAL EARTH BERM AND SPOT/SLOPE EXCAVATE TO CONSTRUCT INTERIOR FOOTING FOR RAKER SUPPORT.
6. AFTER CONCRETE IS CURED AND ATTAINS MIN. 50% OF DESIGNED STRENGTH, SLOPE/CHANNEL EXCAVATE TO INSTALL RAKERS AS PER PLAN.
7. AFTER THE 1ST TIER UNDERPINNING IS FIRMLY BRACED, CONTINUE TO TIER 2 UNDERPINNING CONSTRUCTION PER STEPS 1~4.
8. AFTER ALL UNDERPINNING IS CONSTRUCTED AND BRACED, CONTINUE TO CONSTRUCT FOUNDATIONS.

NOTE:

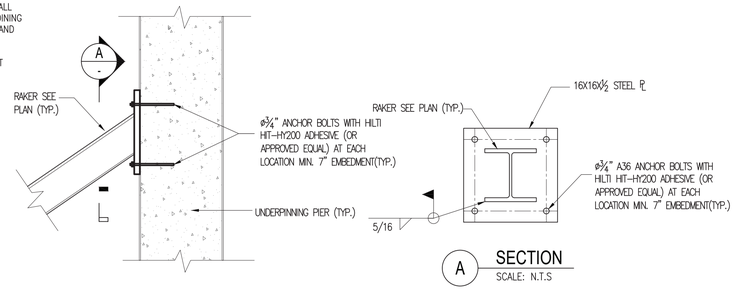
1. AT INTERSECTIONS BETWEEN SHORING AND UNDERPINNING, THE EXCAVATION AND INSTALLATION OF SHORING AND LAGGING SHALL PROCEED SIMULTANEOUSLY WITH THE CONSTRUCTION OF ADJOINING UNDERPINNING FOR PROTECTION OF THE ADJACENT FOOTING AND STABILITY OF SOIL.
2. NO MORE THAN 2 FT HIGH SOIL SHALL BE EXPOSED WITHOUT PROTECTION OF WOOD LAGGINGS.



2 TYP UNERPINNING REINFORCING DETAIL
SCALE: N.T.S

NOTES:

1) SEE UNDERPINNING PLAN AND SECTIONS FOR DIMENSIONS
2) REBAR SPLICE ("S") TO BE 30" VERTICALLY AND 18" HORIZONTALLY.
3) PROVIDE 2"X4" KEY IN VERTICAL DIRECTION.



A SECTION
SCALE: N.T.S

3 RAKER TO UNDERPINNING DETAIL
SCALE: N.T.S

PROJECT NAME:

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Key Plan

Examiner Stamp

Nilufar Roushad
Assistant Plan Examiner
APPROVED
Under Directive 2 of 1975
Date: 05/18/2023
NYC Development Hub
DOBNOW #
Q00711760-Z2

No Date Description
Issued/Revised

Project:

PROPOSED A
9-STORY RESIDNETIAL
BUILDING
43-25 52ND ST
FLUSHING, NY 11377

Drawing Title

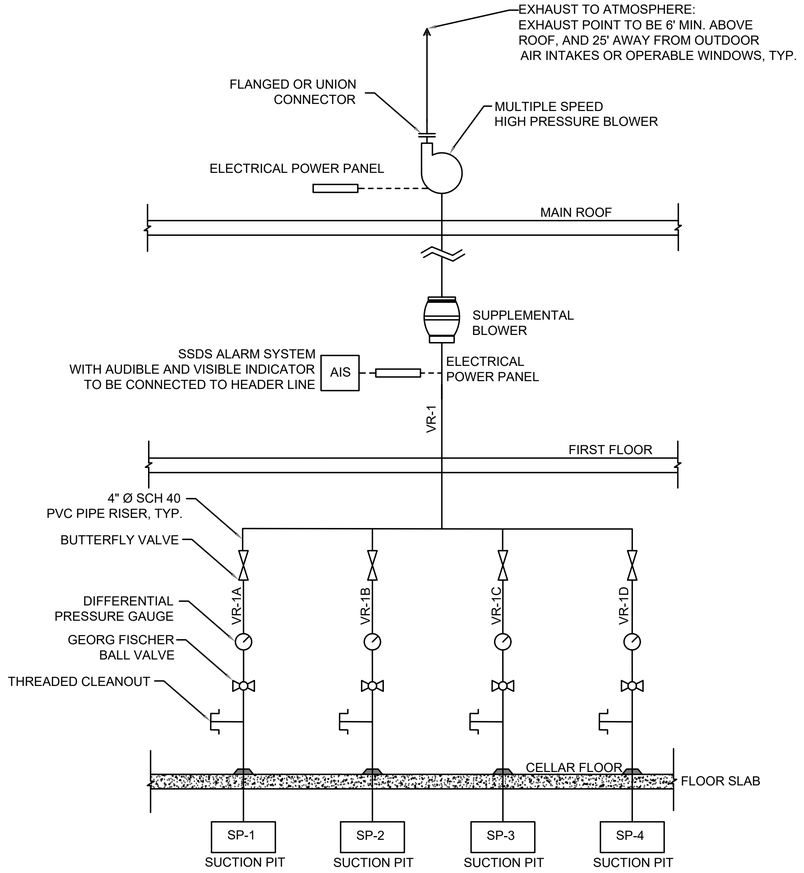
UNDERPINNING
TYPICAL DETAILS

Stamp

JING WANG
STATE OF NEW YORK
036042
LICENSED PROFESSIONAL ENGINEER

Sheet No:	4 OF 4
Scale	AS NOTED
Date	05/11/2023
Project No.	2201220
Drawn By:	TJ
Drawing No.	FO-203.00

Appendix N — SSDS and SVE System As-Built Drawings



1 SSDS PROCESS FLOW DIAGRAM
SCALE: N.T.S

GENERAL NOTES:

1) DESIGN DETAILS AND DRAWINGS WERE ADAPTED FROM EPA TECHNICAL MANUAL EPA/625/R-92/016.
2) INSTALLATION OF THE SUB-SLAB DEPRESSURIZATION (SSD) SYSTEM WAS COORDINATED WITH OTHER UTILITIES.
3) ALL CONNECTIONS AT VAPOR PIPE FITTINGS AND JOINTS WERE CONSTRUCTED AIR-TIGHT IN ACCORDANCE WITH THE MANUFACTURER'S PROCEDURES.
4) REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION AND DETAILS. REFER TO STRUCTURAL AND UTILITY DRAWINGS FOR UNDER-SLAB UTILITIES OTHER THAN THE VAPOR PIPING.
5) REFER TO ARCHITECTURAL DRAWINGS FOR ROUTING OF VAPOR PIPING ALONGSIDE BUILDING WALL(S) AND TERMINATION OF PIPING FOR EXHAUST VENTILATION.
6) FIRE STOP COLLARS WERE INSTALLED FOR ALL PENETRATIONS OF FIRE-RATED WALLS.
7) VALVES, VACUUM GAUGES, AND BLOWERS WERE INSTALLED AT ACCESSIBLE LOCATIONS.
8) VALVES AND GAUGES WERE INSTALLED AT APPROXIMATELY 5 FEET ABOVE FINISHED FLOOR ELEVATION.

BLOWER NOTES:

1) THE BLOWER INSTALLED WAS SELECTED TO EFFECTIVELY MINIMIZE SOIL VAPOR INTRUSION WHILE MINIMIZING EXCESS ENERGY USAGE, AND TO MEET REQUIREMENTS FOR SAFETY, SYSTEM PERFORMANCE INDICATION, AND NOISE REDUCTION.
2) THE BLOWER WAS NOT LOCATED IN OR BELOW A LIVABLE OR OCCUPIED AREA OF THE BUILDING.
3) THE BLOWER WAS HOUSED IN A SOUND ENCLOSURE.

SSD SYSTEM NOTES:

1) SUCTION PITS, MANIFOLD, VALVES, PORTS, PIPING, AND TYPICAL SLAB-ON-GRADE CONSTRUCTION ARE SHOWN ON CONSTRUCTION DETAIL DRAWINGS.
2) SSD SYSTEM PIPING WAS INSTALLED AS 4-INCH DIAMETER SCHEDULE 40 PVC PIPE (OR EQUIVALENT). WHERE PIPE SUPPORTS WERE REQUIRED, TYPE, PLACEMENT, AND NUMBER OF SUPPORTS WERE APPROVED BY THE MECHANICAL ENGINEER.
3) A MINIMUM 6-INCH-THICK CRUSHED STONE LAYER AND GEOTEXTILE FABRIC WERE INSTALLED CONTINUOUSLY UNDER THE ENTIRE SSD SUCTION PITS AND SUB-SLAB PIPING, AS SHOWN ON CONSTRUCTION DETAILS H103-02 & H103-07.
4) SUCTION PITS WERE LOCATED AT SAFE DISTANCES FROM COMBUSTION APPLIANCES TO AVOID BACK-DRAFTING ISSUES.
5) ALL HORIZONTAL PIPE RUNS WERE PITCHED AT A MINIMUM OF 1/8 INCH PER FOOT TOWARD THE SUCTION PITS TO ALLOW CONDENSATION WATER TO DRAIN INTO THE PIT.
6) VALVES AND GAUGES WERE MOUNTED IN TEE FITTINGS INSTALLED PARALLEL TO ADJACENT WALLS.
7) ROOF PENETRATIONS WERE INSTALLED IN ACCORDANCE WITH ARCHITECTURAL CONSTRUCTION DETAILS.
8) RAIN GUARDS/CAPS WERE INSTALLED AT THE EXHAUST POINT TO PREVENT BLOCKAGE AND REDUCE THE POTENTIAL FOR SUBSURFACE VAPOR RE-ENTRY.
9) THE SSD SYSTEM WAS TESTED TO MAINTAIN A MINIMUM NEGATIVE PRESSURE OF -0.004 INCHES WATER COLUMN (W.C.) UNDER THE SLAB.
10) FINAL SUCTION PIT LOCATIONS WERE COORDINATED AND APPROVED BY THE ENGINEER.

SYSTEM STARTUP AND CALIBRATION:

1) ALL EQUIPMENT AND ACCESSORIES SHALL BE ADJUSTED AND CALIBRATED BEFORE ANY STARTUP.
2) AFTER INSTALLATION, THE SSD SYSTEM PERFORMANCE MUST BE VERIFIED.
3) ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT, INCLUDING RELATED CONTROL SYSTEMS, SHALL BE SUBJECTED TO PRELIMINARY OPERATION AND TESTING BEFORE THE INDIVIDUAL FACILITIES AND SYSTEMS ARE PUT INTO OPERATION. TESTS SHALL BE DONE TO DETERMINE WHETHER THE EQUIPMENT HAS BEEN PROPERLY ASSEMBLED, ALIGNED, WIRED, OR CONNECTED. REQUIRED REPAIRS SHALL BE COMPLETED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4) COMMUNICATION TESTS SHALL BE USED TO CONFIRM THAT THE SYSTEM MAINTAINS AN ADEQUATE NEGATIVE PRESSURE UNDER THE SLAB. A MINIMUM SUB-SLAB PRESSURE OF -0.004 INCHES W.C. IS REQUIRED. A SUB-SLAB PRESSURE OF -0.01 INCHES W.C. IS RECOMMENDED. EXCESSIVE DEPRESSURIZATION SHALL BE AVOIDED TO PREVENT BACK-DRAFTING OF COMBUSTION APPLIANCES.
5) SUB-SLAB PRESSURE SHALL BE CONTROLLED BY ADJUSTING BLOWER FLOW VALVE AND/OR BLOWER SIZE. PRESSURE SHALL BE SET AT A LEVEL TO MINIMIZE SOIL VAPOR INTRUSION EFFECTIVELY WHILE MINIMIZING EXCESS ENERGY USAGE, TO AVOID COMPROMISING MOISTURE AND TEMPERATURE CONTROLS AND OTHER COMFORT FEATURES, AND TO MINIMIZE NOISE PER NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) SOIL VAPOR INTRUSION GUIDANCE DATED OCTOBER 2006 INCLUDING UPDATES UNTIL FEBRUARY 2024.
6) SMOKE TEST SHALL BE CONDUCTED IF ADEQUATE PRESSURE IS NOT OCCURRING UNDER THE SLAB. THE LEAKING AREA SHALL BE IDENTIFIED AND RESEALED.

OPERATION, MAINTENANCE, AND MONITORING NOTES:

1. AS APPROPRIATE, PREVENTATIVE MAINTENANCE, REPAIRS AND/OR ADJUSTMENTS SHALL BE MADE TO SSD SYSTEM TO ENSURE ITS EFFECTIVENESS.
2. OPERATION, MAINTENANCE, AND MONITORING REQUIREMENT DETAILS SHALL BE DETERMINED BY ENVIRONMENTAL ENGINEER ACCORDING TO SUB-SURFACE ENVIRONMENTAL INVESTIGATION RESULTS.
3. AS A MINIMUM, THE FOLLOWING OM&M ACTIVITIES ARE REQUIRED ACCORDING TO NYSDOH SOIL VAPOR INTRUSION GUIDANCE DATED OCTOBER 2006 INCLUDING UPDATES UNTIL FEBRUARY 2024 AT A VAPOR INTRUSION SITE:
   - 3.a. VACUUM GAUGE IS REQUIRED TO BE CHECKED WEEKLY TO ENSURE ADEQUATE PRESSURE IS MAINTAINED UNDER SLAB.
   - 3.b. ROUTINE MAINTENANCE IS REQUIRED TO COMMENCE WITHIN 18 MONTHS AFTER SSD SYSTEM BECOMES OPERATIONAL AND SHALL OCCUR EVERY 12 TO 18 MONTHS THEREAFTER BY QUALIFIED ENVIRONMENTAL ENGINEER.
   - 3.c. POST-MITIGATION INDOOR AND OUTDOOR AIR SAMPLING IS REQUIRED AFTER 30 DAYS OF DEPRESSURIZATION SYSTEM INSTALLATION.
4. BLOWER MOTOR OPERATION SHALL BE VISUALLY CHECKED AT LEAST WEEKLY TO CONFIRM SYSTEM IS RUNNING.
5. CONTROL PANEL STATUS LIGHTS, SWITCHES, AND ANY INSTALLED ALARMS SHALL BE INSPECTED DURING EACH SITE VISIT AND MALFUNCTIONS ADDRESSED IMMEDIATELY.
6. SYSTEM VACUUM READINGS AND FLOW RATES AT EACH EXTRACTION POINT SHALL BE RECORDED DURING ROUTINE MAINTENANCE AND COMPARED TO BASELINE START-UP DATA.
7. FILTERS, MUFFLERS, OR MOISTURE TRAPS (IF PRESENT) SHALL BE CLEANED OR REPLACED AS NECESSARY TO MAINTAIN SYSTEM PERFORMANCE.
8. ROOF AND INTERIOR RISERS SHALL BE VISUALLY INSPECTED FOR DAMAGE, LEAKS, OR DETERIORATION AT LEAST ONCE PER YEAR, AND REPAIRS MADE AS NEEDED.
9. ALL OPERATIONAL DATA, MAINTENANCE ACTIVITIES, AND REPAIRS SHALL BE DOCUMENTED IN A SYSTEM LOGBOOK KEPT ONSITE OR WITH THE RESPONSIBLE PARTY.
10. ANY SIGNIFICANT DEVIATION FROM BASELINE OPERATING PARAMETERS SHALL PROMPT AN INVESTIGATION BY THE ENVIRONMENTAL ENGINEER TO DETERMINE THE CAUSE AND NECESSARY CORRECTIVE ACTIONS.

No.	Date	Revision

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PROJECT:

43-25 52nd STREET
WOODSIDE, QUEENS

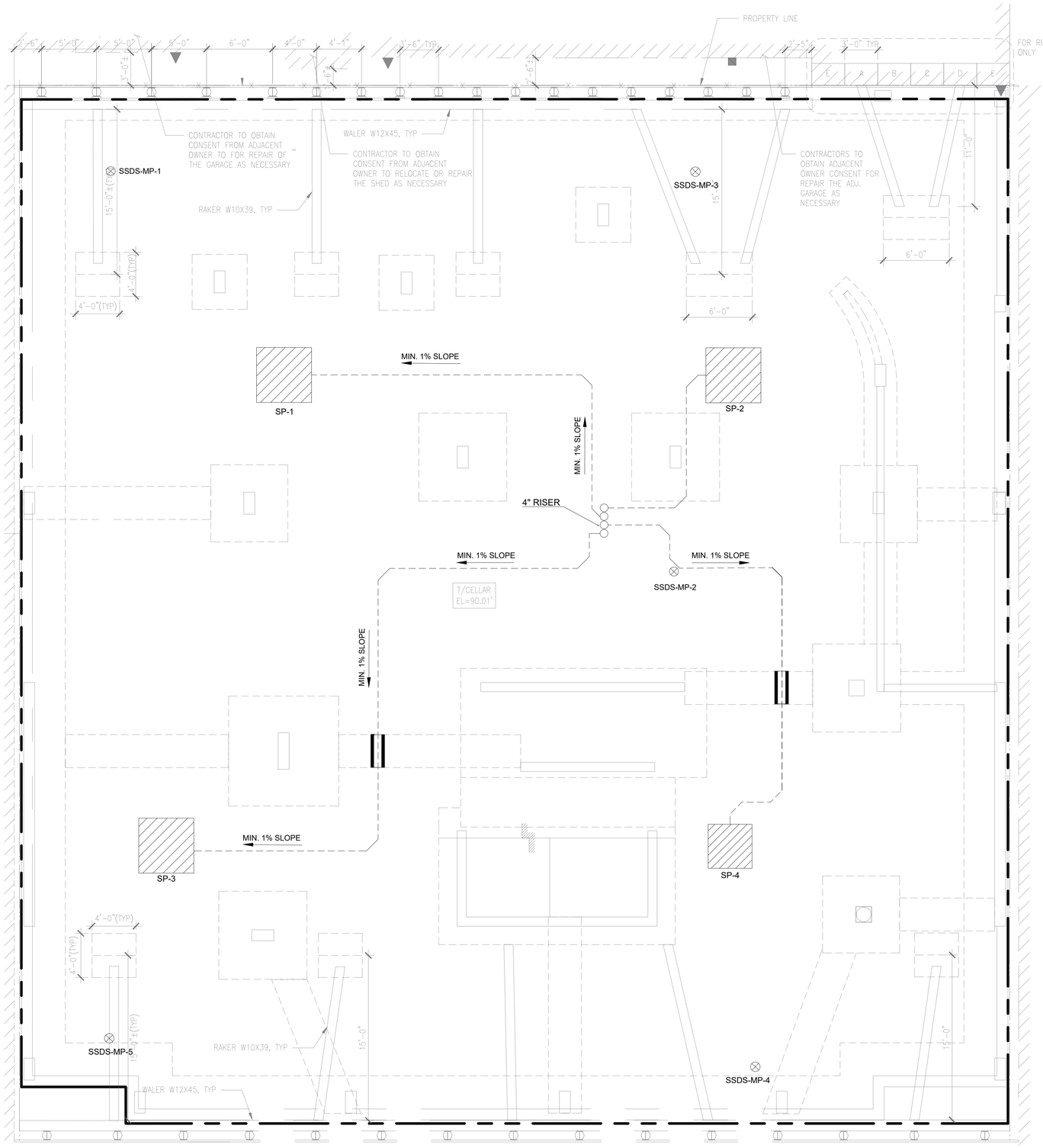
TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM DIAGRAM AND GENERAL NOTES

JOB NO:	22254	DRAWING NO:	H200.00
DATE:	08/11/2024		
SCALE:	AS SHOWN		
DRAWN BY:	ND		
CHECKED BY:	CH	SHEET 1 OF 7	

P:\23\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SSDS Drawings 7-18-25.dwg Aug 15, 2025 - 3:00pm dhong

NOTES:

1. THE BASE MAP IS FROM THE FOUNDATION PLAN (SEE SOE-101)
2. AS-BUILT LOCATION OF PITS ARE SHOWN. THE EXACT LOCATIONS OF THE PITS, PIPING, AND RISER PIPE WILL REQUIRE OTHER DESIGN TEAM'S APPROVAL TO ACCOMODATE BUILDING COMPONENTS OR ARCHITECTURAL DETAILS.
3. SLOPE HORIZONTAL PIPE A MINIMUM OF 1/8-INCH VERTICAL PER FOOT HORIZONTAL (1% SLOPE) UNIFORMLY TOWARDS SUB-SLAB SUCTION PIT OR TO UNDERGROUND CONDENSATE DRAIN (SEE DETAIL 2/H103.00) WHEN UNDERGROUND PIPE CANNOT BE SLOPED TOWARD THE PIT. THE SYSTEM SHALL BE INSTALLED SUCH THAT NO PORTION WILL ALLOW EXCESS ACCUMULATION OF CONDENSATE.
4. PENETRATION SLEEVE USED IS MADE OF SCHEDULE 80 PVC FOR PENETRATION THROUGH FOUNDATION BEAMS AND ELEMENTS.



② SSDS FOUNDATION PLAN
SCALE: 1" = 5'-0"

LEGEND:

- BUILDING BOUNDARY
- 4-INCH PVC RISER PIPE (SEE DETAIL 4 ON H103.00)
- SP-1 — SUB-SLAB SUCTION PIT (SEE DETAILS 1&2 ON H103.00)
- 4-INCH PVC SUB-SLAB DEPRESSURIZATION SYSTEM UNDERGROUND PIPING
- SSDS-MP-X — SUB-SLAB DEPRESSURIZATION MONITORING POINT
- PENETRATION SLEEVE THROUGH FOUNDATION ELEMENT

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PROJECT:

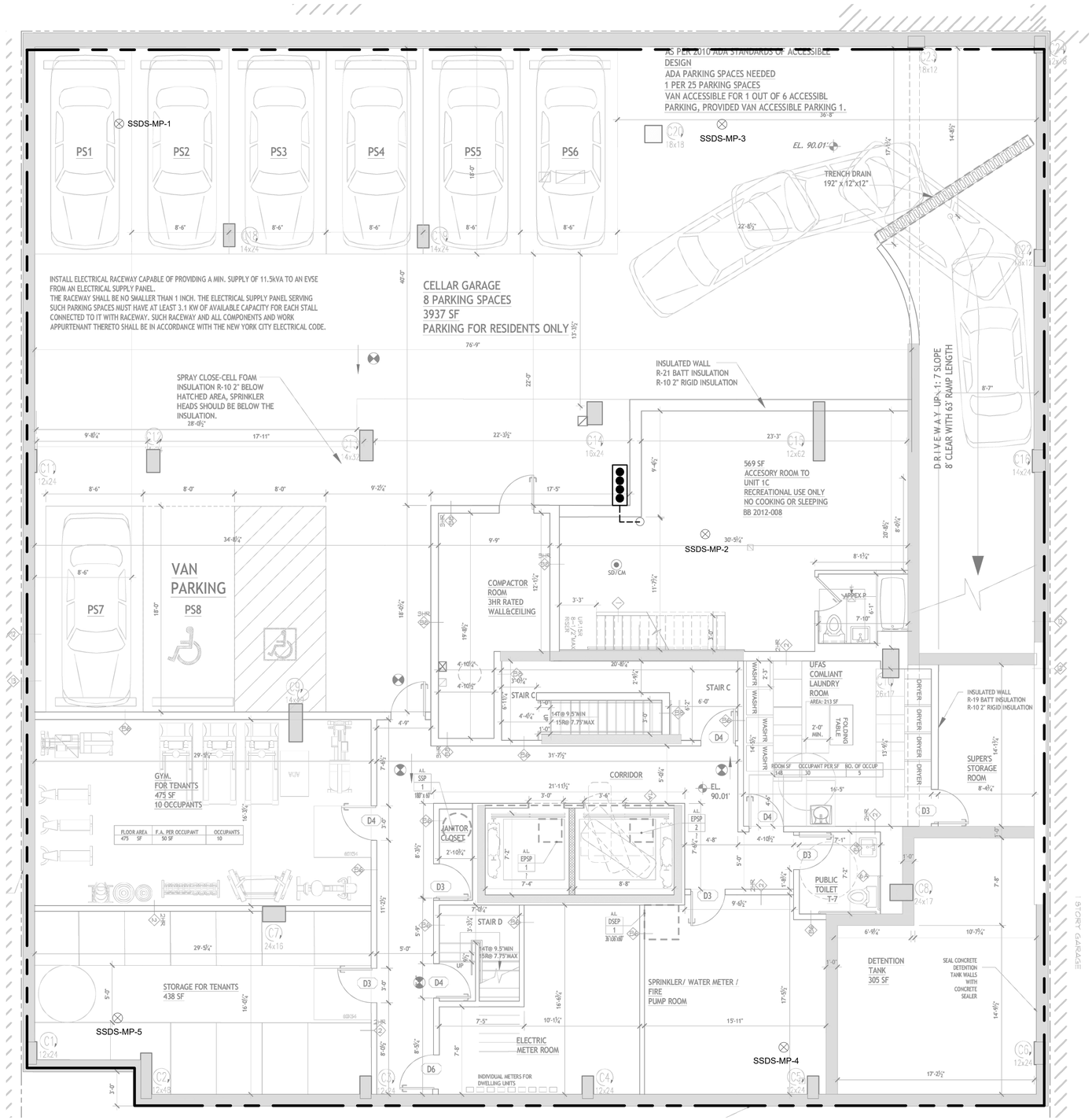
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT: FOUNDATION PLAN AS-BUILT

JOB NO:	22254	DRAWING NO:	H201.00
DATE:	11/07/2025		
SCALE:	AS SHOWN		
DRAWN BY:	ND		
CHECKED BY:	CH	SHEET	2 OF 7

NOTES:

1. THE BASE MAP IS FROM THE CELLAR PLAN.
2. SLOPE HORIZONTAL PIPE A MINIMUM OF 1/8-INCH VERTICAL PER FOOT HORIZONTAL (1% SLOPE) UNIFORMLY TOWARDS SUB-SLAB SUCTION PIT OR TO UNDERGROUND CONDENSATE DRAIN (SEE DETAIL 2/H103.00) WHEN UNDERGROUND PIPE CANNOT BE SLOPED TOWARD THE PIT. THE SYSTEM SHALL BE INSTALLED SUCH THAT NO PORTION WILL ALLOW EXCESS ACCUMULATION OF CONDENSATE.
3. PENETRATION SLEEVE USED IS MADE OF SCHEDULE 80 PVC FOR PENETRATION THROUGH FOUNDATION BEAMS AND ELEMENTS.



2 SSDS CELLAR PLAN
SCALE: 1" = 5'-0"

LEGEND:

- PROPERTY BOUNDARY
- 4-INCH PVC RISER PIPE
- VERTICAL RISER OFFSET (UP / DOWN)
- SUB-SLAB DEPRESSURIZATION MONITORING POINT (SSDS-MP-X)
- PIPING MANIFOLD

No.	Date	Revision

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PROJECT:

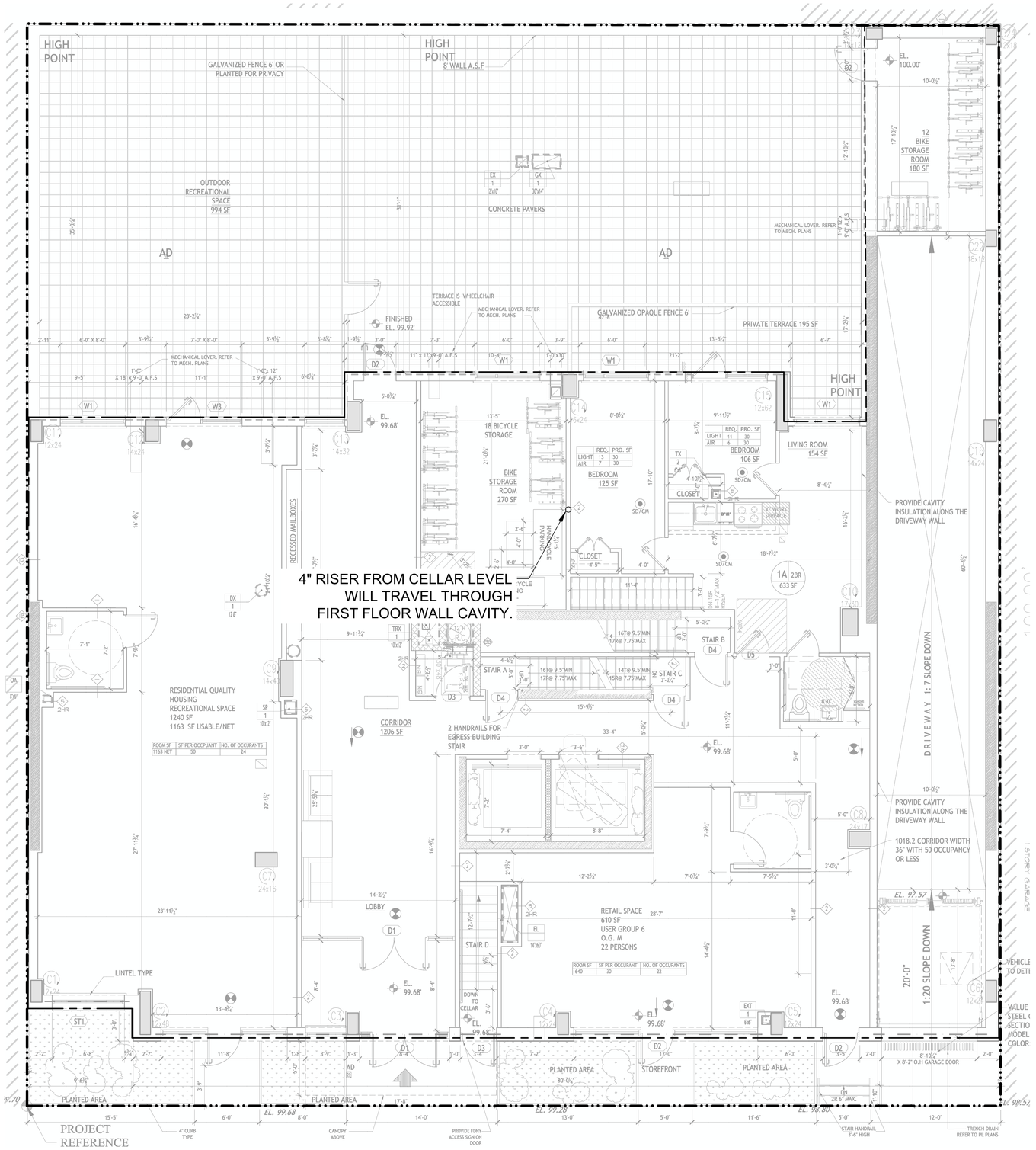
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT: CELLAR PLAN AS-BUILT

JOB NO:	22254	DRAWING NO:	H202.00
DATE:	11/07/2025		
SCALE:	AS SHOWN		
DRAWN BY:	ND		
CHECKED BY:	CH	SHEET	2 OF 7

NOTES:

1. THE BASE MAP IS FROM THE ARCHITECT DRAWING M-102.00 PROPOSED FIRST FLOOR PLAN PREPARED BY ARCHITECTS STUDIO P.C., DATED APRIL 25, 2023.
2. THE AS-BUILT LOCATIONS OF PITS ARE SHOWN. THE EXACT LOCATIONS OF THE PITS, PIPING, AND RISER PIPE WILL REQUIRE OTHER DESIGN TEAM'S APPROVAL TO ACCOMODATE BUILDING COMPONENTS OR ARCHITECTURAL DETAILS.



4 SSDS FIRST FLOOR PIPING PLAN
SCALE: 1" = 5'-0"

LEGEND:

- PROPERTY BOUNDARY
- BUILDING BOUNDARY
- 4-INCH PVC RISER PIPE

No.	Date	Revision

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PROJECT:

43-25 52nd STREET
WOODSIDE, QUEENS

TITLE:

SUB-SLAB DEPRESSURIZATION SYSTEM FIRST FLOOR PLAN AS-BUILT

JOB NO: 22254	DRAWING NO: H203.00
DATE: 08/14/2025	
SCALE: AS SHOWN	
DRAWN BY: ND	
CHECKED BY: CH	SHEET 4 OF 7

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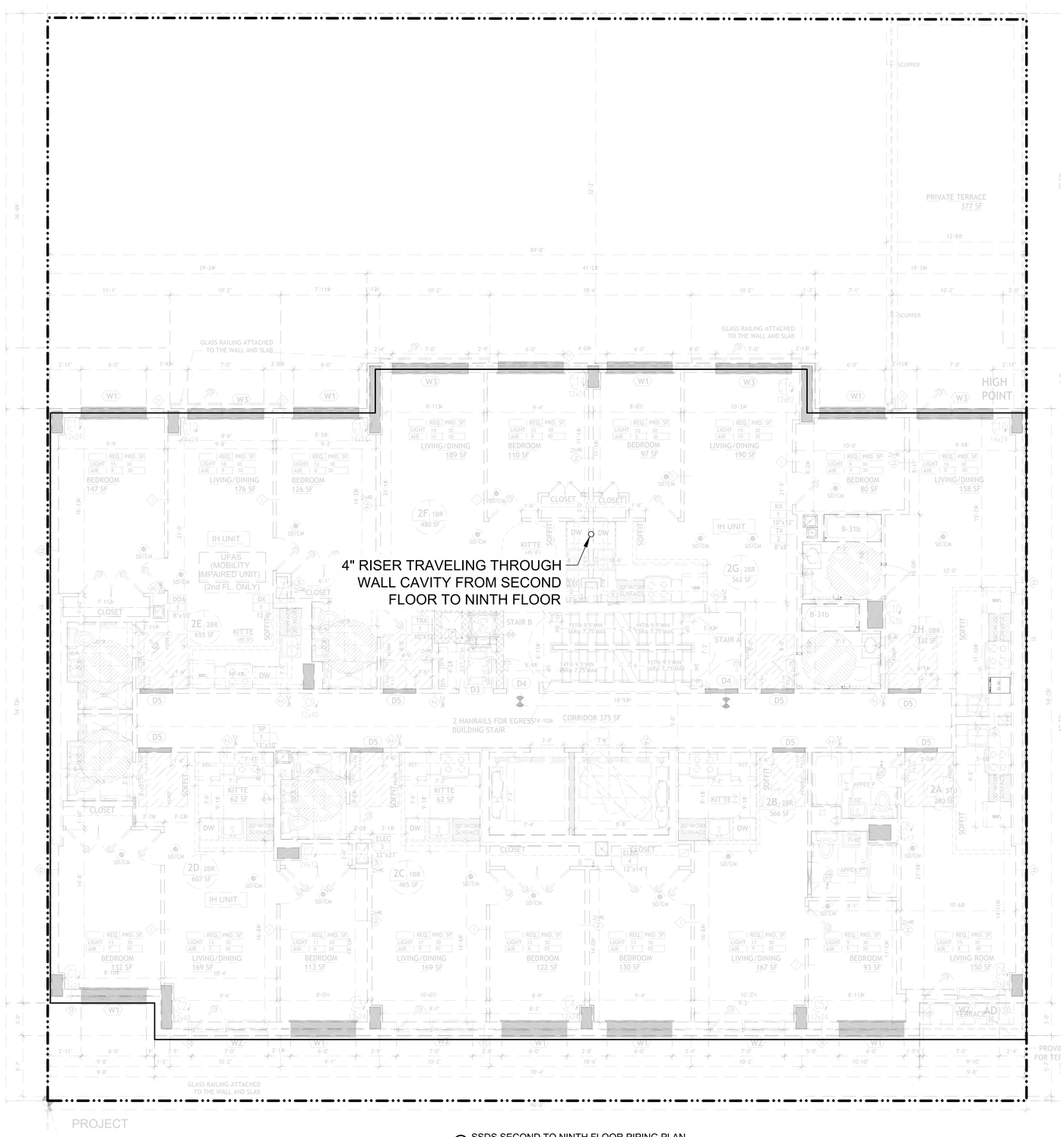
NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING NO. A-102.00 PROPOSED SECOND FLOOR PLAN PREPARED BY ARCHITECTS STUDIO P.C., DATED NOVEMBER 01, 2022
2. THE AS-BUILT LOCATIONS OF PITS ARE SHOWN. THE EXACT LOCATIONS OF THE PITS, PIPING, AND RISER PIPE WILL REQUIRE OTHER DESIGN TEAM'S APPROVAL TO ACCOMMODATE BUILDING COMPONENTS OR ARCHITECTURAL DETAILS.
3. THE AS-BUILT SECOND TO NINTH FLOOR PLANS FOLLOW A STANDARDIZED LAYOUT AND WILL CONTAIN THE SAME 4" RISER LOCATION THROUGHOUT.



5 SSDS SECOND TO NINTH FLOOR PIPING PLAN
SCALE: 1" = 5'-0"

LEGEND:

- PROPERTY BOUNDARY
- BUILDING BOUNDARY
- 4-INCH PVC RISER PIPE

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PROJECT:

43-25 52nd STREET
WOODSIDE, QUEENS

TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM SECOND TO NINTH FLOOR PLAN AS-BUILT

JOB NO:	22254	DRAWING NO:	H204.00
DATE:	08/14/2025		
SCALE:	AS SHOWN		
DRAWN BY:	ND		
CHECKED BY:	CH	SHEET	5 OF 7

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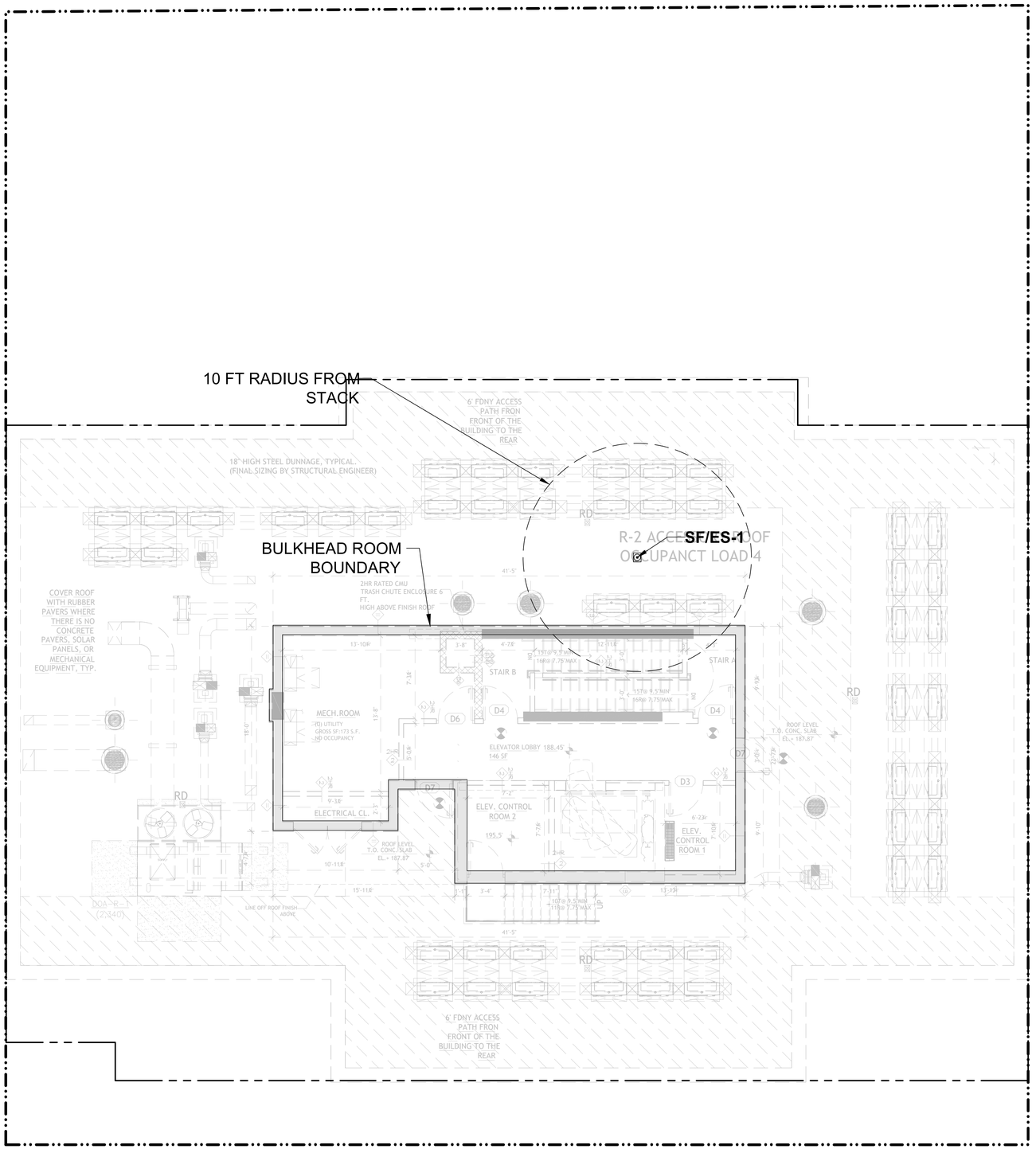
NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING NO. A-102.00 PROPOSED ROOFTOP PLAN PREPARED BY ARCHITECTS STUDIO P.C., DATED NOVEMBER 01, 2022
2. THE AS-BUILT LOCATIONS OF PITS ARE SHOWN. THE EXACT LOCATIONS OF THE PITS, PIPING, AND RISER PIPE WILL REQUIRE OTHER DESIGN TEAM'S APPROVAL TO ACCOMMODATE BUILDING COMPONENTS OR ARCHITECTURAL DETAILS.
3. THE AS-BUILT SECOND TO NINTH FLOOR PLANS FOLLOW A STANDARDIZED LAYOUT AND WILL CONTAIN THE SAME 4" RISER LOCATION THROUGHOUT.



6 SSDS ROOF PLAN
SCALE: 1" = 5'-0"

LEGEND:

- PROPERTY BOUNDARY
- BUILDING BOUNDARY
- BULKHEAD ROOM
- RADIUS OF IMPACT
- ES-1 — EXHAUST STACK (SEE DETAIL 5 ON H106.00)
- SF-1 — SUCTION FAN (SEE DETAIL 5 ON H106.00)

No.	Date	Revision

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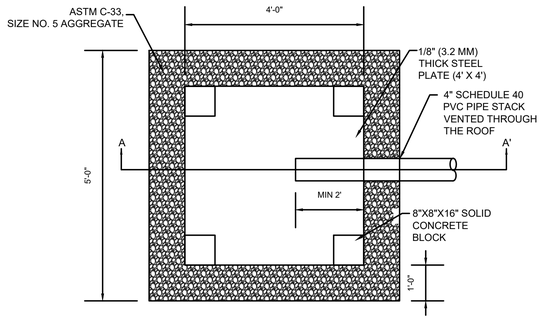
PROJECT:

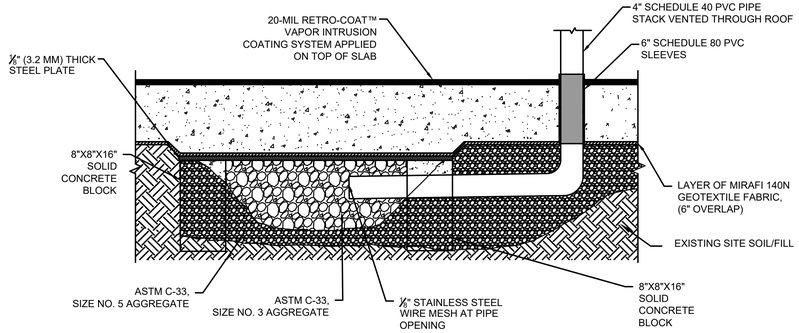
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT: ROOF PLAN AS-BUILT

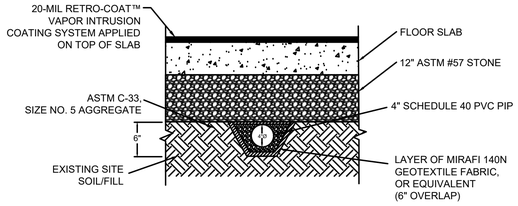
JOB NO:	22254	DRAWING NO:	H205.00
DATE:	08/18/2025		
SCALE:	AS SHOWN		
DRAWN BY:	ND		
CHECKED BY:	CH	SHEET 6	OF 7



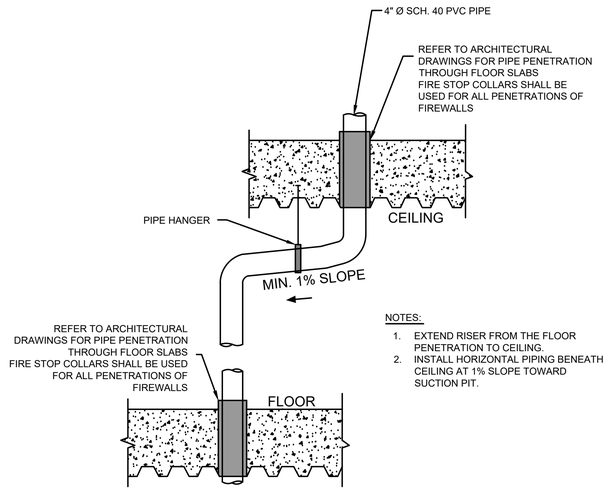
1 SSDS SUCTION PIT - PLAN VIEW
SCALE: N.T.S



2 SSDS SUCTION PIT - SECTION A-A'
SCALE: N.T.S



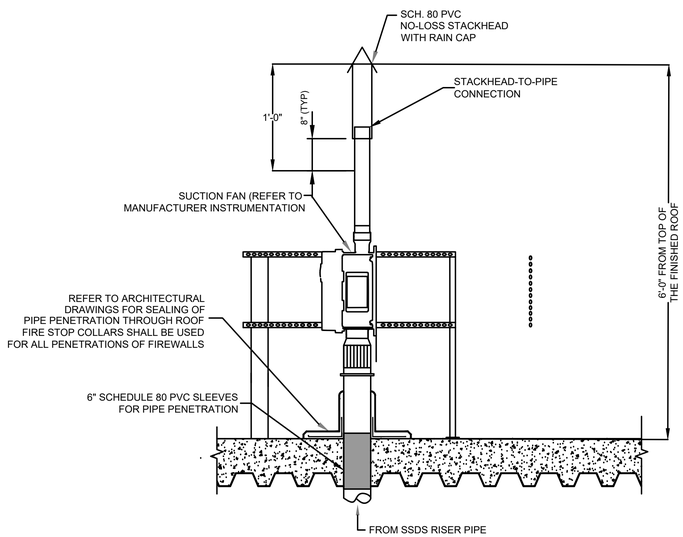
3 TYPICAL SUB-SLAB PIPING PROFILE
SCALE: N.T.S



NOTES:

1. EXTEND RISER FROM THE FLOOR PENETRATION TO CEILING.
2. INSTALL HORIZONTAL PIPING BENEATH CEILING AT 1% SLOPE TOWARD SUCTION PIT.

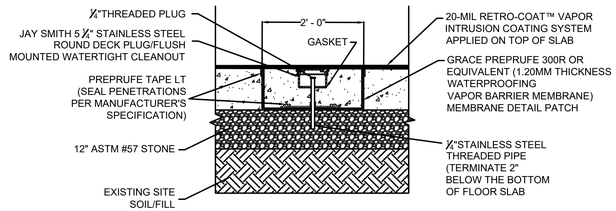
4 TYPICAL PIPING OFFSET
SCALE: N.T.S



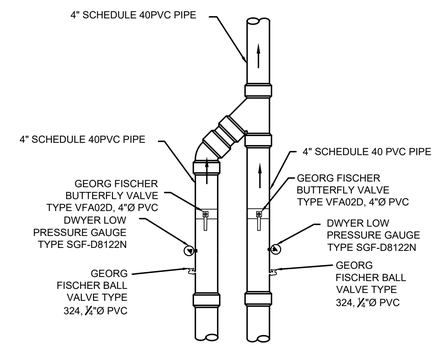
NOTES:

1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOWN FOR SCHEMATIC PURPOSES ONLY (NOT TO SCALE).
4. ALL ROOF PENETRATIONS WERE COORDINATED WITH OTHER TRADES TO ENSURE PENETRATIONS ARE SEALED IN ACCORDANCE WITH WARRANTY.
5. DISCHARGE EXHAUST STACK MINIMUM 6' ABOVE FINISHED ROOF AND MINIMUM 25' FROM ANY WINDOWS AND AIR INTAKES.
6. PROVIDE FAN MOUNTING AND VIBRATION ISOLATION TO MEET MC301.10 AND 928.3.

5 TYPICAL SUCTION FAN LAYOUT FOR STAND-ALONE EXHAUST STACK
SCALE: N.T.S



6 SSDS MONITORING POINT
SCALE: N.T.S



NOTE:

1. VALVES AND GAUGES SHALL BE INSTALLED AT THE HEIGHT OF 5 FEET ABOVE FINISHED FLOOR.

7 TYPICAL PIPING MANIFOLD
SCALE: N.T.S

No.	Date	Revision

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PROJECT:

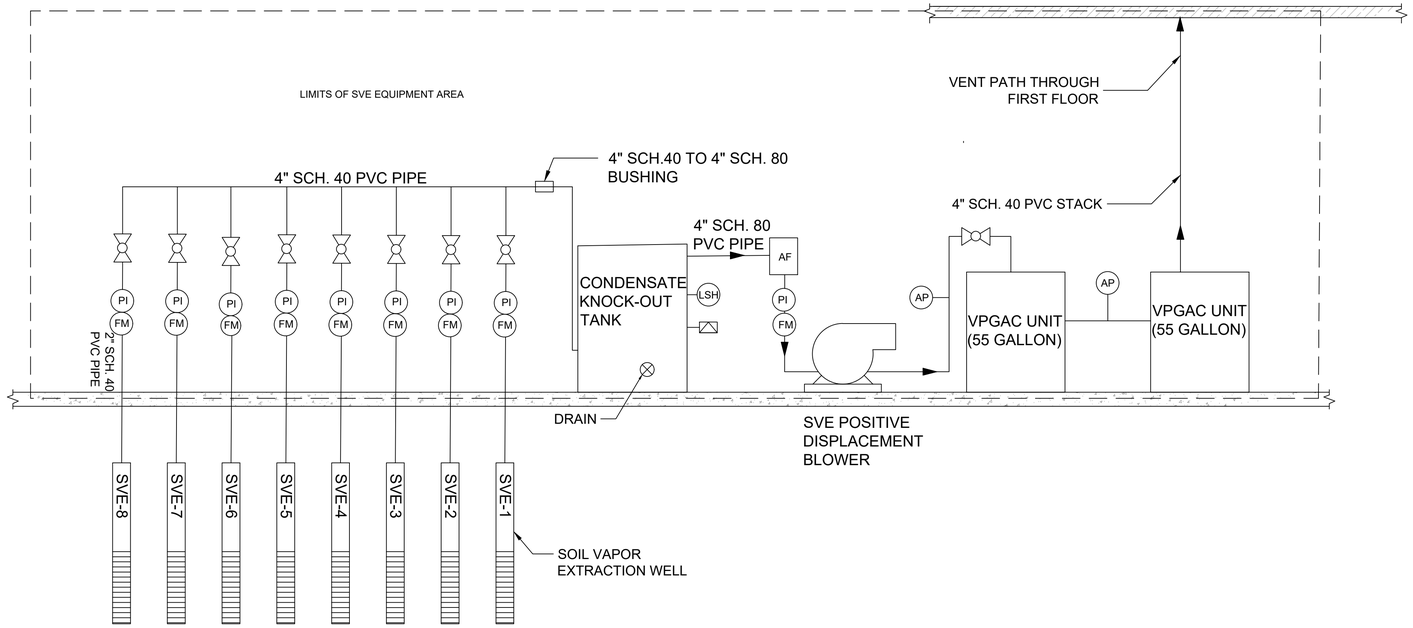
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE:

SUB-SLAB DEPRESSURIZATION SYSTEM CONSTRUCTION DETAILS AS-BUILT

JOB NO: 22254	DRAWING NO: H206.00
DATE: 08/17/2025	
SCALE: AS SHOWN	
DRAWN BY: ND	
CHECKED BY:	SHEET 7 OF 7

P:\21\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SSDS Drawings 7-16-25.dwg Aug 18, 2025 - 12:58pm dhong



LEGEND:

- SOLID 2" Ø SCHEDULE 40 PVC SVE PIPING
- SVE REGENERATIVE BLOWER
- (AP) ACCESS POINT FOR SAMPLING
- BALL VALVE
- (AF) AIR FILTER
- FLOW DIRECTION
- (LSH) LEVEL SWITCH HIGH
- VACUUM RELIEF VALVE
- (PI) PRESSURE INDICATOR
- (FM) FLOW MEASUREMENT PORT
- VPGAC VAPOR PHASE GRANULAR ACTIVATED CARBON

1 SOIL VAPOR EXTRACTION SYSTEM PROCESS DIAGRAM
SCALE: N.T.S

GENERAL NOTES:

1) THIS DRAWING REPRESENTS THE AS-BUILT CONDITIONS OF THE SOIL VAPOR EXTRACTION (SVE) SYSTEM AS INSTALLED IN THE FIELD.
2) ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
3) VERIFY ALL DIMENSIONS, LOCATIONS, AND ELEVATIONS IN THE FIELD PRIOR TO ANY FUTURE WORK.
4) AS-BUILT INFORMATION IS BASED ON FIELD MEASUREMENTS AND INSTALLER MARK-UPS OF CONSTRUCTION DRAWINGS.
5) ALL WORK WAS COMPLETED IN ACCORDANCE WITH THE APPROVED REMEDIAL DESIGN REPORT (RDR) DATED NOVEMBER 19, 2024, AND NYSDEC REQUIREMENTS FOR BCP SITE ID# C241269.
6) SVE SYSTEM COMPONENTS INCLUDE EXTRACTION WELLS, SUB-SLAB PIPING, MANIFOLDS, BLOWER UNIT, MOISTURE SEPARATOR, VAPOR PHASE GRANULAR ACTIVATED CARBON (VPGAC) VESSELS, AND ROOFTOP EXHAUST STACK.
7) MATERIALS AND EQUIPMENT ARE AS SPECIFIED IN THE CONTRACT DOCUMENTS UNLESS OTHERWISE NOTED.
8) ALL UNDERGROUND PIPING LOCATIONS ARE APPROXIMATE AND BASED ON INSTALLATION RECORDS.
9) REFER TO MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR SYSTEM OPERATION, MAINTENANCE, AND SAFETY REQUIREMENTS.
10) TWO SVE MONITORING POINTS WERE INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS. THE MONITORING POINTS ARE PROVIDED TO ALLOW ROUTINE MEASUREMENT OF SYSTEM PERFORMANCE, VERIFY VACUUM DISTRIBUTION IN THE SUBSURFACE, AND SUPPORT TROUBLESHOOTING OR ADJUSTMENTS DURING O&M ACTIVITIES.

SVE BLOWER SKID SPECIFICATIONS:

1) 15 HP, 208-230/460V, 3PH, XP MOTOR, 1765 RPM, RATED 225 CFM @ 130" W.C.
2) DIRECT DRIVE, 2" SCH80 PVC INLET, SOLBERG INLINE FILTER, 1.5" DILUTION VALVE WITH FILTER SILENCER.
3) VACUUM RELIEF VALVE, VACUUM GAUGE, DISCHARGE TEMP/PRESSURE GAUGES, DISCHARGE SAMPLE PORT.
4) 30-GALLON AIR/WATER MOISTURE SEPARATOR WITH HIGH-LEVEL ALARM SWITCH.
5) PAINTED STEEL EFFLUENT PIPING, COMMON SKID MOUNTED, FACTORY TESTED.

SVE CONTROL PANEL:

1) 230V, 60HZ, 1PH SUPPLY; MOTOR STARTER WITH ADJUSTABLE THERMAL OVERLOAD.
2) HAND–OFF–AUTO SELECTOR SWITCH; ALARM LIGHT FOR MOISTURE SEPARATOR HIGH LEVEL.
3) NEMA 4, UL698A LISTED PANEL; MOTOR CIRCUIT BREAKER AND MAIN DISCONNECT.

SYSTEM STARTUP AND CALIBRATION:

1) ALL EQUIPMENT, ACCESSORIES, INSTRUMENTATION, AND CONTROLS WERE INSTALLED, ALIGNED, WIRED, AND SECURED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2) FOLLOWING INSTALLATION, THE SVE SYSTEM PERFORMANCE WAS VERIFIED TO ACHIEVE DESIGN FLOW RATES, VACUUM LEVELS, AND OPERATING TEMPERATURES.
3) THE BLOWER SKID, MOISTURE SEPARATOR, VACUUM RELIEF VALVE, GAUGES, AND CONTROL PANEL WERE SUBJECTED TO PRELIMINARY OPERATION AND FUNCTIONAL TESTING PRIOR TO PLACING THE SYSTEM INTO SERVICE. ANY REQUIRED REPAIRS OR ADJUSTMENTS WERE COMPLETED PER THE MANUFACTURER'S SPECIFICATIONS.
4) INITIAL FIELD TESTING CONFIRMED THAT ADEQUATE VACUUM WAS MAINTAINED AT EXTRACTION WELLS AND WITHIN THE TARGETED SUBSURFACE ZONES. A MINIMUM VACUUM OF - 0.01 INCHES W.C. AT MONITORING POINT WAS ACHIEVED DURING STARTUP TESTING.
5) SYSTEM VACUUM AND FLOW RATES WERE SET USING THE BLOWER FLOW VALVE, VACUUM RELIEF VALVE, AND/OR VARIABLE FREQUENCY DRIVE (IF EQUIPPED) TO MAINTAIN TARGET PERFORMANCE WHILE MINIMIZING ENERGY CONSUMPTION AND NOISE.

OPERATION, MAINTENANCE, AND MONITORING NOTES:

1) THE SVE SYSTEM IS OPERATED USING THE INSTALLED BLOWER SKID AND CONTROL PANEL AS PER MANUFACTURER SPECIFICATIONS.
2) VACUUM, FLOW, AND PRESSURE READINGS SHALL BE RECORDED AT EACH MONITORING POINT DURING ROUTINE INSPECTIONS TO ENSURE SYSTEM PERFORMANCE IS MAINTAINED.
3) FILTERS AND MOISTURE SEPARATORS SHALL BE CLEANED OR REPLACED AS REQUIRED BASED ON DIFFERENTIAL PRESSURE READINGS OR MANUFACTURER RECOMMENDATIONS.
4) MOTORS, BLOWERS, AND ROTATING EQUIPMENT SHALL BE INSPECTED QUARTERLY FOR EXCESSIVE VIBRATION, UNUSUAL NOISE, OR SIGNS OF WEAR.
5) ALL ELECTRICAL CONNECTIONS AT THE CONTROL PANEL SHALL BE CHECKED SEMI-ANNUALLY FOR SIGNS OF LOOSENING, OVERHEATING, OR CORROSION.
6) SYSTEM START/STOP SEQUENCES, SAFETY INTERLOCKS, AND ALARMS SHALL BE FUNCTION TESTED SEMI-ANNUALLY TO CONFIRM PROPER OPERATION.
7) THE CONDENSATE DRAIN SYSTEM SHALL BE CHECKED MONTHLY FOR BLOCKAGES, PROPER FLOW, AND POTENTIAL FREEZING CONDITIONS IN COLD WEATHER.
8) ALL SYSTEM ACCESS POINTS, PIPING CONNECTIONS, AND WELL HEADS SHALL BE INSPECTED ANNUALLY FOR LEAKS, DAMAGE, OR CORROSION, AND REPAIRED PROMPTLY AS REQUIRED.
9) MAINTENANCE ACTIVITIES SHALL BE DOCUMENTED IN A LOGBOOK, INCLUDING DATE, PERSONNEL, OBSERVATIONS, MEASUREMENTS, AND ANY REPAIRS OR ADJUSTMENTS MADE.
10) ENVIRONMENTAL PERFORMANCE SHALL BE REVIEWED ANNUALLY BY A QUALIFIED ENGINEER BASED ON MONITORING DATA, TO ASSESS IF SYSTEM SETTINGS NEED TO BE OPTIMIZED OR MODIFIED.
11) THE SYSTEM SHALL BE OPERATED TO MAINTAIN TARGET VACUUM LEVELS AT EXTRACTION WELLS AND MAINTAIN NEGATIVE PRESSURE IN ALL TARGETED AREAS.
12) ANNUAL INDOOR AIR / OUTDOOR AMBIENT AIR SAMPLING SHALL BE PERFORMED PER REGULATORY REQUIREMENTS AND SITE MANAGEMENT PLAN TO CONFIRM CONTINUED MITIGATION PERFORMANCE.

No.	Date	Revision

REVISIONS

STATE OF NEW YORK · CHENGYU JIANG · LICENSED PROFESSIONAL ENGINEER · 10838201

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Fax: (201) 791-4533

PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

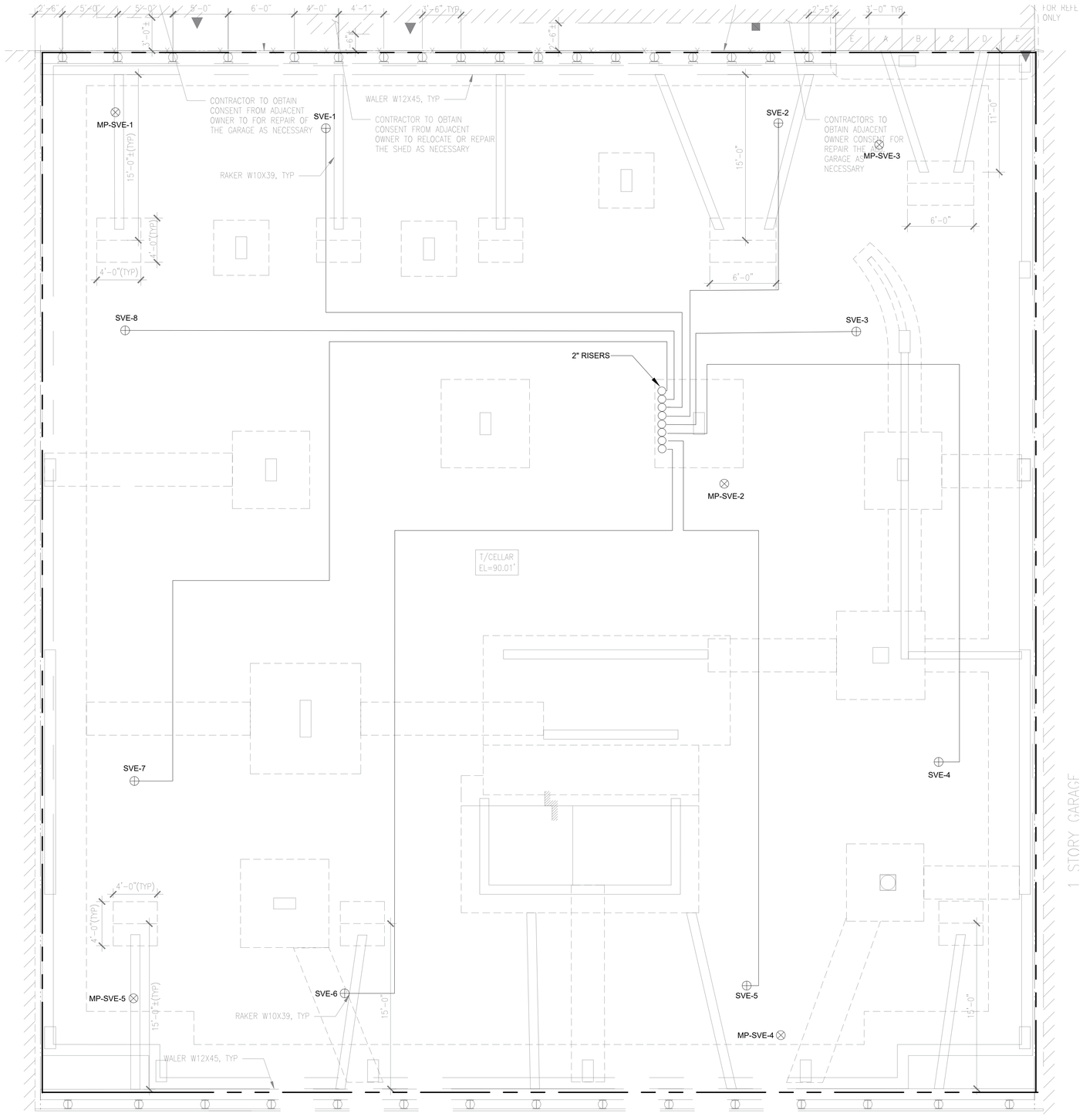
TITLE:
SOIL VAPOR EXTRACTION SYSTEM DIAGRAM AND GENERAL NOTES AS-BUILT

JOB NO: 22254	DRAWING NO: H100.00
DATE: 08/11/2025	
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 1 OF 7

P:\22\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 08-07-25.DWG Aug 15, 2025 - 11:52am dhong

NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING SET A101.00 THROUGH A108.00 43-25 52ND ST PREPARED BY ARCHITECTS STUDIO P.C. DATED SEPTEMBER 15, 2023.
2. THE SVE EXTRACTION WELL WERE INSTALLED AT 15-20 FT BGS INTERVAL
3. THE LOCATIONS OF THE WELLS, SVE UNIT ENCLOSURE, PIPING, AND RISER PIPE ARE APPROXIMATE AND ARE BASED ON FIELD MEASUREMENTS.
4. EQUIPMENT SPECIFICATIONS OF SVE UNIT ENCLOSURE IS INCLUDED IN APPENDIX C OF REMEDIAL DESIGN DOCUMENT.



2 SVE SYSTEM FOUNDATION PLAN
SCALE: 1" = 5'-0"

LEGEND:

- BUILDING BOUNDARY
- RISER PIPE
- SOLID 2" Ø SCHEDULE 40 PVC SOIL VAPOR EXTRACTION (SVE) PIPING
- SVE WELL LOCATION
- SVE MONITORING POINT LOCATION

No.	Date	Revision

REVISIONS

STATE OF NEW YORK
CHENGYU HANG
10838201
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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

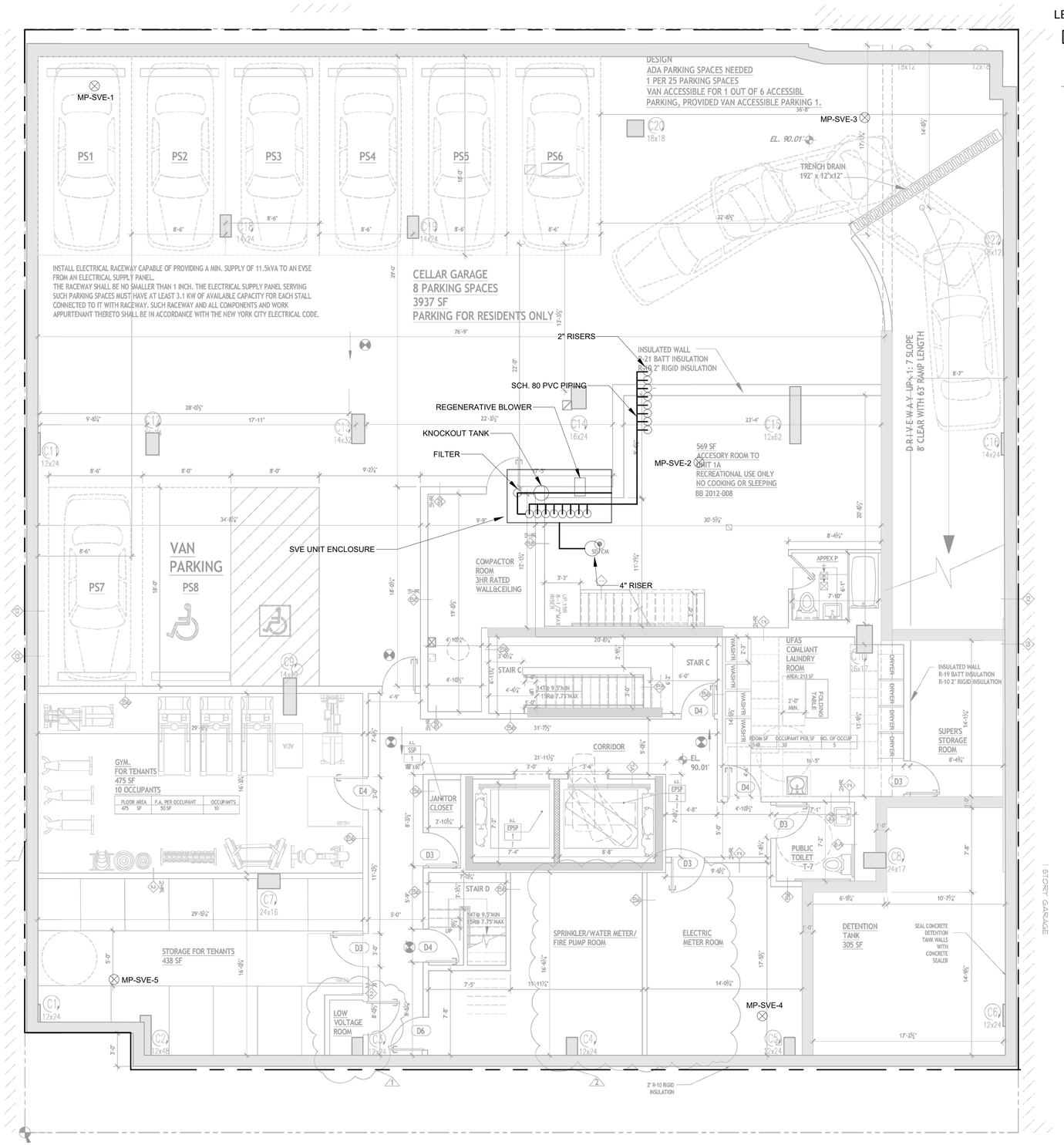
TITLE:
SOIL VAPOR EXTRACTION SYSTEM LAYOUT - FOUNDATION PLAN AS-BUILT

JOB NO: 22254	DRAWING NO: H101.00
DATE: 11/07/2025	
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 2 OF 7

P:\22\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 10-13-25.Dwg Nov 07, 2025 - 3:47pm ushcd

NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING SET A101.00 THROUGH A108.00 43-25 52ND ST PREPARED BY ARCHITECTS STUDIO P.C. DATED SEPTEMBER 15, 2023.
2. THE SVE EXTRACTION WELL WERE INSTALLED AT 15-20 FT BGS INTERVAL
3. THE LOCATIONS OF THE WELLS, SVE UNIT ENCLOSURE, PIPING, AND RISER PIPE ARE APPROXIMATE AND ARE BASED ON FIELD MEASUREMENTS.
4. EQUIPMENT SPECIFICATIONS OF SVE UNIT ENCLOSURE IS INCLUDED IN APPENDIX C OF REMEDIAL DESIGN DOCUMENT.



3 SVE SYSTEM CELLAR PLAN
SCALE: 1" = 5'-0"

LEGEND:

- BUILDING BOUNDARY
- RISER PIPE
- SOLID 2" Ø SCHEDULE 40 PVC SOIL VAPOR EXTRACTION (SVE) PIPING
- SVE WELL LOCATION
- SVE MONITORING POINT LOCATION

No.	Date	Revision

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STATE OF NEW YORK · GHEORGHE YU · 10838201 · LICENSED PROFESSIONAL ENGINEER

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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

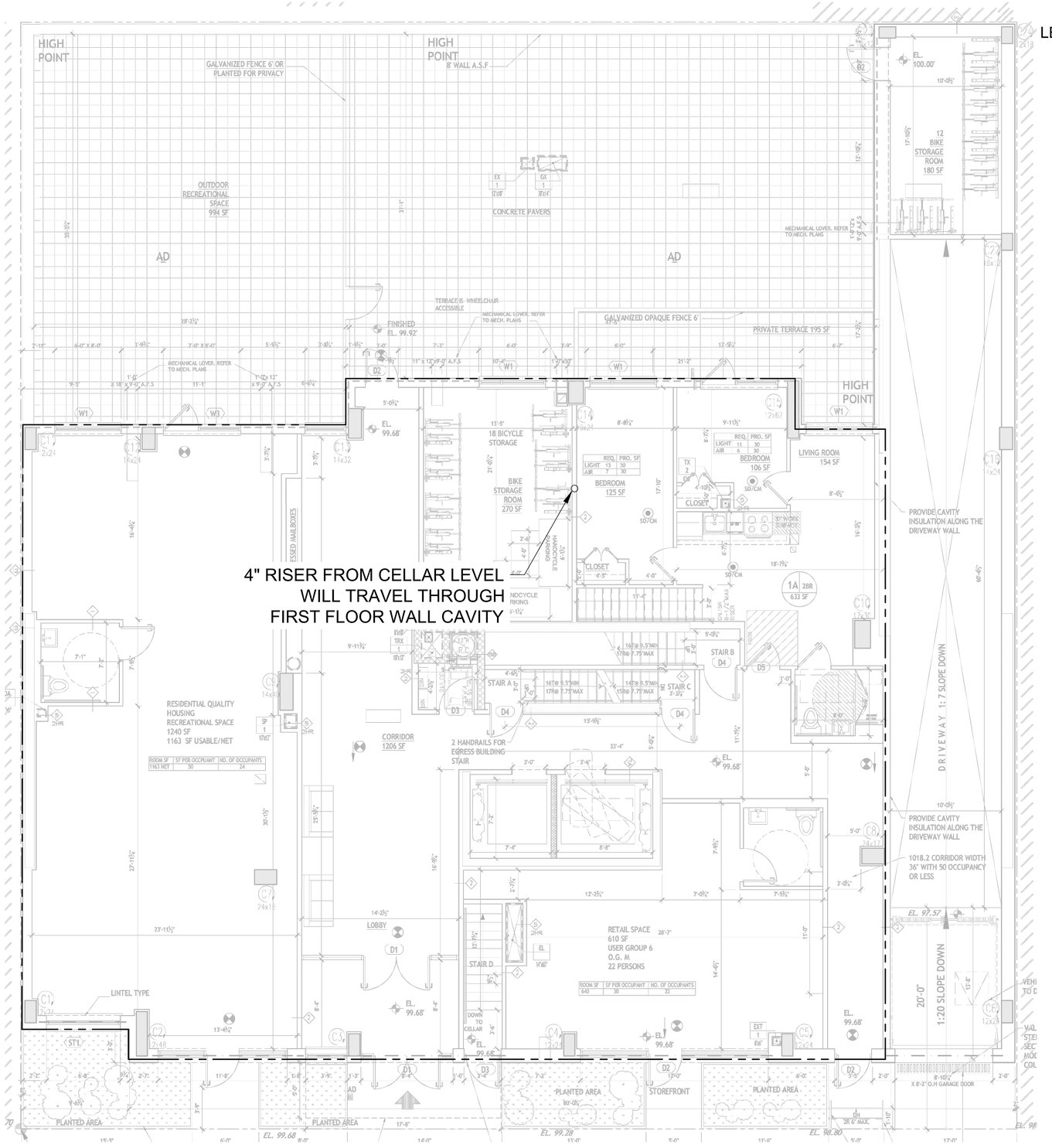
TITLE:
SOIL VAPOR EXTRACTION SYSTEM LAYOUT - CELLAR PLAN
AS-BUILT

JOB NO: 22254	DRAWING NO: H102.00
DATE: 11/07/2025	
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 3 OF 7

P:\22\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 10-15-25.dwg Nov 07, 2025 - 3:53pm rafael

NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING SET A101.00 THROUGH A108.00 43-25 52ND ST PREPARED BY ARCHITECTS STUDIO P.C. DATED SEPTEMBER 15, 2023.
2. 4" SVE RISER FROM CELLAR LEVEL ROUTED WITHIN INTERIOR WALL CAVITY, MAINTAINING CLEARANCE FROM ELECTRICAL AND PLUMBING LINES.
3. SVE RISER SHALL BE INSTALLED PLUMB AND SECURELY STRAPPED AT INTERVALS NOT EXCEEDING 6 FEET.
4. ALL PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED AIRTIGHT USING FIRE-RATED, NON-SHRINK SEALANT PER LOCAL BUILDING CODE REQUIREMENTS.
5. ENSURE RISER REMAINS ACCESSIBLE FOR INSPECTION; DO NOT CONCEAL WITH NON-REMOVABLE FINISHES.
6. FINAL INSTALLATION WERE DOCUMENTED WITH PHOTOS INCLUDED IN THE FINAL ENGINEERING REPORT.



4 SVE SYSTEM FIRST FLOOR PLAN
SCALE: 1" = 5'-0"

LEGEND:

- BUILDING BOUNDARY
- RISER PIPE

No.	Date	Revision

REVISIONS

STATE OF NEW YORK · CHENGYU HANG · 10838201 · LICENSED PROFESSIONAL ENGINEER

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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

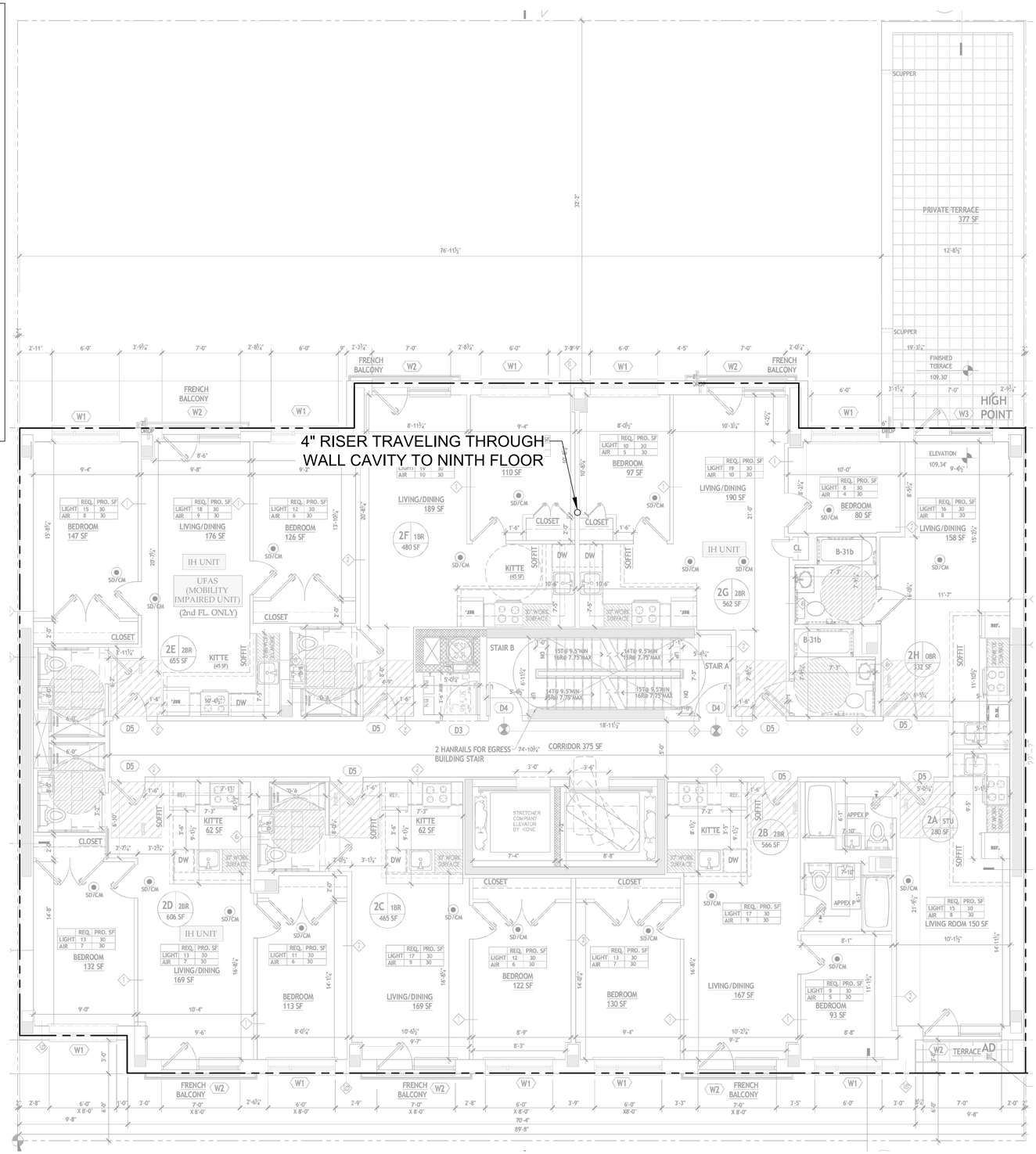
TITLE:
SOIL VAPOR EXTRACTION SYSTEM LAYOUT - FIRST FLOOR PLAN

JOB NO: 22254	DRAWING NO: H103.00
DATE: 08/11/2025	
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 4 OF 7

P:\22\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 08-07-25.dwg Aug 18, 2025 - 2:17pm chang

NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING SET A101.00 THROUGH A108.00 43-25 52ND ST PREPARED BY ARCHITECTS STUDIO P.C. DATED SEPTEMBER 15, 2023.
2. 4" SVE RISER FROM CELLAR LEVEL ROUTED WITHIN INTERIOR WALL CAVITY, MAINTAINING CLEARANCE FROM ELECTRICAL AND PLUMBING LINES.
3. SVE RISER SHALL BE INSTALLED PLUMB AND SECURELY STRAPPED AT INTERVALS NOT EXCEEDING 6 FEET.
4. ALL PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED AIRTIGHT USING FIRE-RATED, NON-SHRINK SEALANT PER LOCAL BUILDING CODE REQUIREMENTS.
5. ENSURE RISER REMAINS ACCESSIBLE FOR INSPECTION; DO NOT CONCEAL WITH NON-REMOVABLE FINISHES.
6. FINAL INSTALLATION WERE DOCUMENTED WITH PHOTOS INCLUDED IN THE FINAL ENGINEERING REPORT.



5 SVE SYSTEM SECOND THROUGH NINTH FLOOR PLAN
SCALE: 1" = 5'-0"

LEGEND:

- BUILDING BOUNDARY
- RISER PIPE

No.	Date	Revision

REVISIONS

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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE:
SVE SYSTEM LAYOUT - SECOND THROUGH NINTH FLOOR PLAN
AS-BUILT

JOB NO: 22254	DRAWING NO:
DATE: 08/11/2025	H104.00
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 5 OF 7

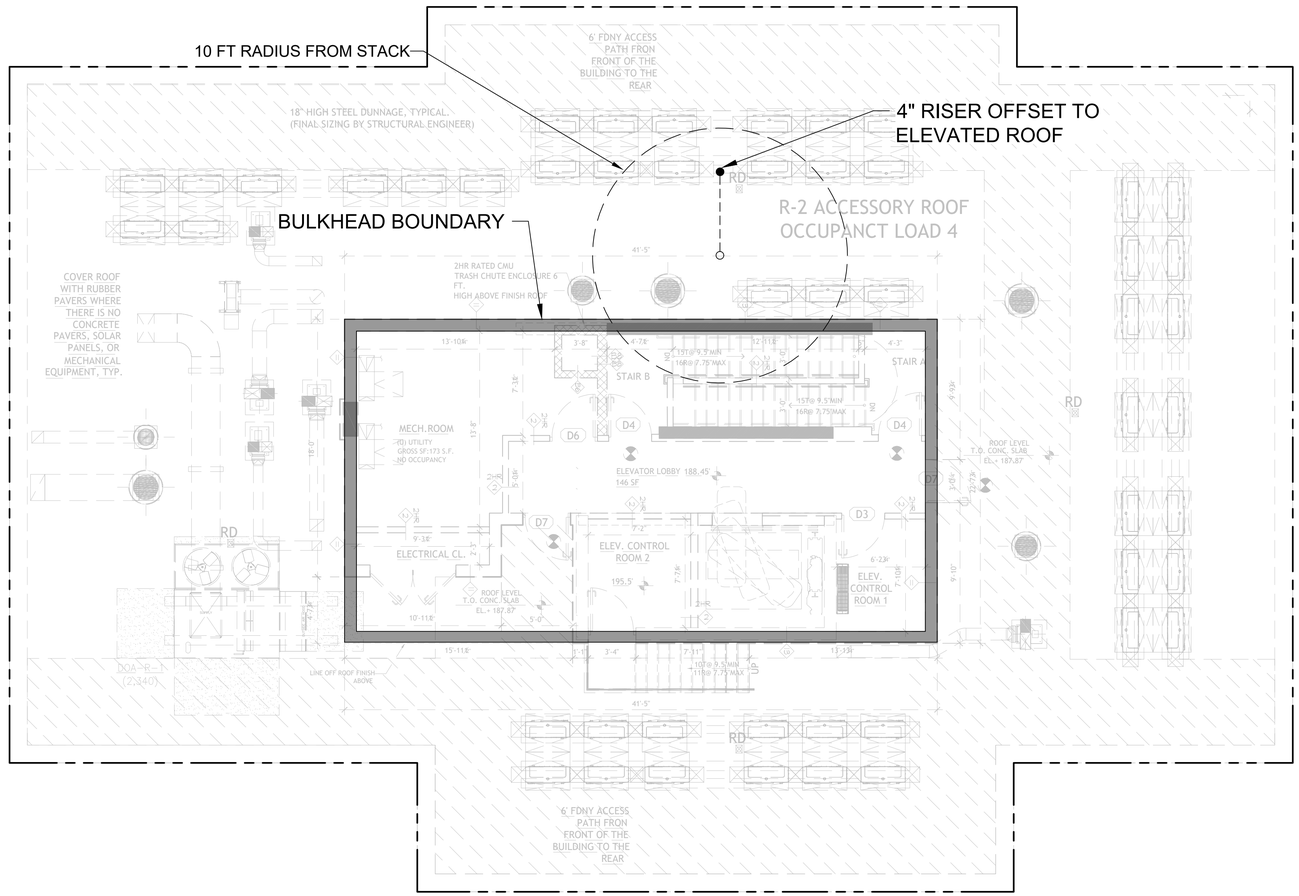
P:\22\22254 (43-25nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 08-07-25.Dwg Aug 18, 2025 - 2:26pm chong

NOTES:

1. THE BASE MAP IS FROM ARCHITECT DRAWING SET A101.00 THROUGH A108.00 43-25 52ND ST PREPARED BY ARCHITECTS STUDIO P.C. DATED SEPTEMBER 15, 2023.
2. 4" SVE RISER FROM CELLAR LEVEL ROUTED WITHIN INTERIOR WALL CAVITY, MAINTAINING CLEARANCE FROM ELECTRICAL AND PLUMBING LINES.
3. SVE RISER SHALL BE INSTALLED PLUMB AND SECURELY STRAPPED AT INTERVALS NOT EXCEEDING 6 FEET.
4. ALL PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED AIRTIGHT USING FIRE-RATED, NON-SHRINK SEALANT PER LOCAL BUILDING CODE REQUIREMENTS.
5. ENSURE RISER REMAINS ACCESSIBLE FOR INSPECTION; DO NOT CONCEAL WITH NON-REMOVABLE FINISHES.
6. FINAL INSTALLATION WERE DOCUMENTED WITH PHOTOS INCLUDED IN THE FINAL ENGINEERING REPORT.

LEGEND:

- BUILDING BOUNDARY
- RISER PIPE
- VERTICAL PIPE OFFSET (UP / DOWN)



6 SVE SYSTEM ROOFTOP PLAN
SCALE: 1" = 5'-0"

No.	Date	Revision

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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE:
SOIL VAPOR EXTRACTION SYSTEM LAYOUT - ROOFTOP PLAN AS-BUILT

JOB NO: 22254	DRAWING NO: H105.00
DATE: 08/11/2025	
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 6 OF 7

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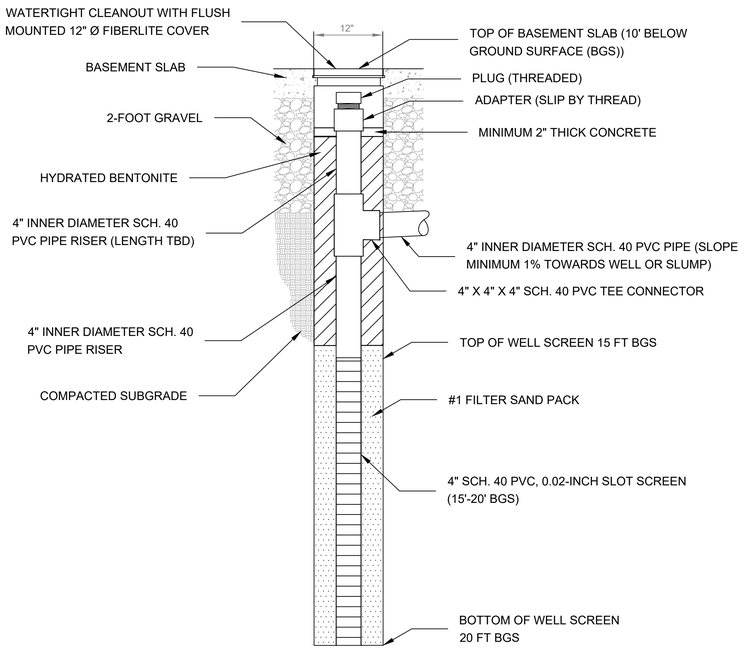
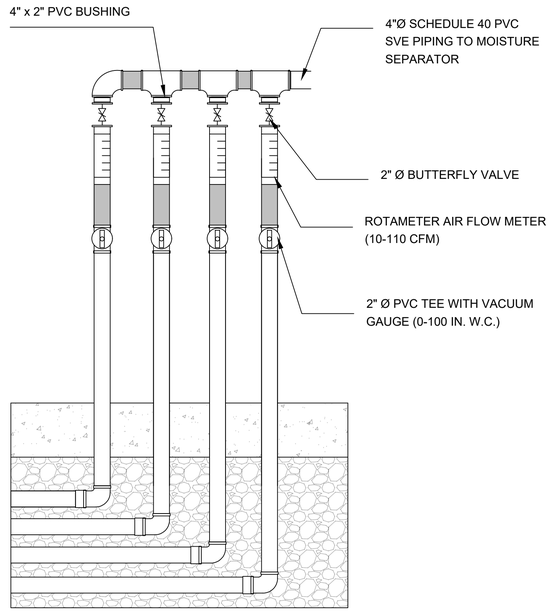
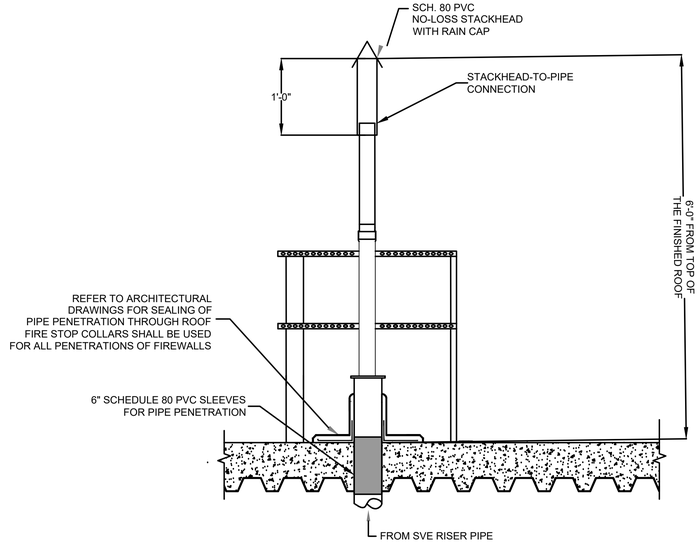


TYPICAL SVE WELL CONSTRUCTION
SCALE: NOT TO SCALE (N.T.S)



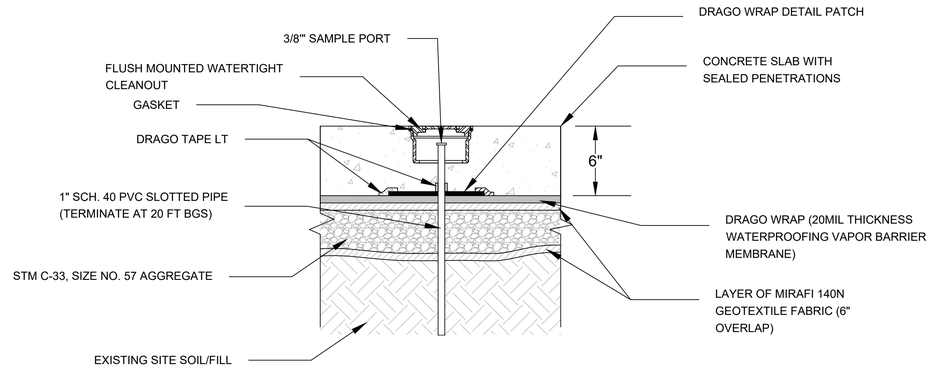
TYPICAL SVE MANIFOLDS CONSTRUCTION
SCALE: NOT TO SCALE (N.T.S)



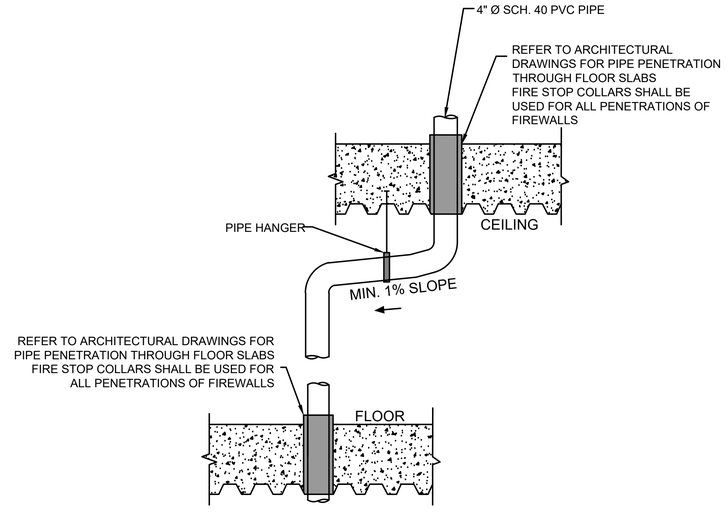
NOTES:

1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOWN FOR SCHEMATIC PURPOSES ONLY (NOT TO SCALE).
4. ALL ROOF PENETRATIONS WERE COORDINATED WITH OTHER TRADES TO ENSURE PENETRATIONS ARE SEALED IN ACCORDANCE WITH WARRANTY.
5. DISCHARGE EXHAUST STACK MINIMUM 6' ABOVE FINISHED ROOF AND MINIMUM 25' FROM ANY WINDOWS AND AIR INTAKES.
6. PROVIDE FAN MOUNTING AND VIBRATION ISOLATION TO MEET MC301.10 AND 928.3.

TYPICAL SUCTION FAN LAYOUT FOR STAND-ALONE EXHAUST STACK
SCALE: N.T.S



TYPICAL MONITORING POINT
SCALE: NOT TO SCALE (N.T.S)



TYPICAL PIPING OFFSET
SCALE: NOT TO SCALE (N.T.S)

No.	Date	Revision

REVISIONS

STATE OF NEW YORK · CHUNGYU HANG · LICENSED PROFESSIONAL ENGINEER · 10838201

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PROJECT:
43-25 52nd STREET
WOODSIDE, QUEENS

TITLE:
SOIL VAPOR EXTRACTION SYSTEM CONSTRUCTION DETAILS
AS-BUILT

JOB NO: 22254	DRAWING NO:
DATE: 08/11/2025	H106.00
SCALE: AS SHOWN	
DRAWN BY: DH	
CHECKED BY: CH	SHEET 7 OF 7

P:\22\22254 (43-52nd Street)\Final Engineering Report\DWG\ As-Built SVE Drawings 08--27--25 DH.dwg Aug 20, 2025 - 4:56pm chong

Appendix O — Environmental Easement and Proof of Filing

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2025071100348001001EE172

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 11**

Document ID: 2025071100348001 Document Date: 07-08-2025 Preparation Date: 07-11-2025
Document Type: EASEMENT
Document Page Count: 10

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560 LEXINGTON AVENUE, 15TH FLOOR
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212-421-2150
NDUNCAN@SPRLAW.COM

RETURN TO:
SIVE PAGET & RIESEL, P.C.
560 LEXINGTON AVENUE, 15TH FLOOR
NEW YORK, NY 10022
212-421-2150
NDUNCAN@SPRLAW.COM

PROPERTY DATA

Borough	Block	Lot		Unit	Address
QUEENS	1321	7	Entire Lot		43-27 52 STREET

Property Type: OTHER Easement

Borough	Block	Lot		Unit	Address
QUEENS	1321	10	Entire Lot		43-25 52 STREET

Property Type: OTHER Easement

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
43-25 52 LLC
46-02 70TH STREET, UNIT PH
WOODSIDE, NY 11377

GRANTEE/BUYER:
PEOPLE OF NEW YORK BY DEPT. ENVIRONMENTAL CONSERVA
625 BROADWAY
ALBANY, NY 12233

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	90.00
Affidavit Fee:	$	0.00

Filing Fee: $ 100.00

NYC Real Property Transfer Tax: $ 0.00

NYS Real Estate Transfer Tax: $ 0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 07-16-2025 15:48
City Register File No.(CRFN): **2025000188344**

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this ____ day of _____, 202_, between Owner, 43-25 52 LLC, having an office at 46-02 70th, Unit PH, Woodside, County of Queens, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 43-27 & 43-25 52nd Street in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 1321 Lots 7 & 10, being the same as those properties conveyed to Grantor by deed dated as of September 13, 2022 and recorded in the City Register of the City of New York in City Register File No. 2022000361392 and by deed dated as of May 6, 2022 and recorded in the City Register of the City of New York in City Register File No. 2022000205476. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.207 +/- acres, and is hereinafter more fully described in the Land Title Survey dated March 6, 2025 prepared by Vincent Teutonico, License No. 050307, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C241269-04-23, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C241269
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

43-25 52 LLC:

By: _____

Print Name: XIAO KE TANG

Title: Authorized Signatory Date: 6/20/2025

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Queens)

On the 20th day of June, in the year 2025, before me, the undersigned, personally appeared XIAO KE TANG, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

JINGLU HUANG
Notary Public, State of New York
No. 01HU6410507
Qualified in Nassau County
Commission Expires Oct. 26, 2028

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
David Harrington, Assistant Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 8th day of July, in the year 2025 before me, the undersigned, personally appeared David Harrington, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

Cheryl A. Salem
Notary Public State of New York
Registration No. 01SA0002177
Qualified In Albany County
My Commission Expires March 3, 2027

SCHEDULE "A" PROPERTY DESCRIPTION

Environmental Easement Legal Description

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and begin in the Borough and County of Queens, City and State of New York, bounded and described as follows:

BEGINNING at a point on the easterly side of 52nd Street (formerly Hancock Avenue), distant 120 feet northerly from the intersection of the northerly side of Queens Boulevard (formerly Thompson Avenue) with the easterly side of 52nd Street (formerly Hancock Avenue);

RUNNING THENCE easterly, parallel with Queens Boulevard, 100 feet;

THENCE northerly, parallel with 52nd Street, 90 feet;

THENCE westerly and again parallel with Queens Boulevard, 100 feet to the easterly side of 52nd Street;

THENCE southerly along the easterly side of 52nd Street, 90 feet to the point or place of BEGINNING.

Environmental Easement Area = 9,000 sq.ft = 0.207 acre

Recorded Deed Descriptions

Lot 7:

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough and County of Queens, City and State of New York, known and designated on a certain map entitled, "Map of 276 Valuable Building Lots, situate in Woodside Heights, near the line of Long Island City in the Village of Woodside, Town of Newton, Queens County, Long Island, New York surveyed August 1885 by Cornelius Hyatt" filed in t he Office of the Clerk of the County of Queens, New York, October 4, 1886 as and by Lots Numbers 34 and 35 in Block #2 and which said lots when taken together are more particularly bounded and described as follows:

BEGINNING at a point on the easterly side of 52nd Street (formerly Hancock Avenue), distant 120 feet northerly from the corner formed by the intersection of the northerly side of Queens Boulevard (formerly Thompson Avenue) with the easterly side of 52nd Street (formerly Hancock Avenue);

RUNNING THENCE easterly, parallel with Queens Boulevard, 100 feet;

THENCE northerly, parallel with 52nd Street, 40 feet;

THENCE westerly and again parallel with Queens Boulevard, 100 feet to the easterly side of 52nd Street;

THENCE southerly along the easterly side of 52nd Street, 40 feet to the point or place of BEGINNING.

Lot Area = 4,000 sq.ft. = 0.092 acre

Lot 10:

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough and County of Queens, City and State of New York, known and designated as and by Lots 32 and 33 and part of Lot 31 in Block 2 on "Map of 276 Valuable Building Lois [*sic*], situate in Woodside Heights, near the line of L.I.C.in Village of Woodside, Town of Newton, Queens County, LI., N.Y.", surveyed August 1885 by Cornelius Hyatt, Surveyor and filed in Queens County Clerk's Office 10-4-1886 as Map No. 225, bounded and described as follows:

BEGINNING at a point on the easterly side of 52nd Street, formerly called Hancock Place, distant 160 feet northerly from the corner formed by the intersection of said easterly side of 52nd Street and the northerly side of Queens Boulevard;

THENCE easterly parallel with Queens Boulevard, 100 feet;

THENCE northerly parallel with 52nd Street, 50 feet;

THENCE westerly parallel with Queens Boulevard, 100 feel [*sic*] to the easterly side of 52nd Street;

THENCE southerly along the easterly side of 52nd Street, 50 feet to the point or place of BEGINNING.

Lot Area = 5,000 sq.ft. = 0.115 acre

Appendix P — Imported Material Documentation

From:	Perez-Maldonado, Javier (DEC)
To:	Chengyu Hang
Cc:	Sixuan Wang
Subject:	43-25 52nd Street (Site No. C241269) - Request to import #2 crushed stone material from Braen Aggregates
Sent:	4/9/2024 8:02:01 AM

[EXTERNAL]
Chengyu,

The Department has reviewed the request dated April 2, 2024 to import up to 400 cubic yards of #2 crushed stone material from Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416 (NYSDOT 8-70RFM). Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and the Remedial Design Work Plan and approval by the Department is required for any additional material imported from this source.

Regards,

Javier Perez-Maldonado
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233
P: (518) 402-8172 | F: (518) 402-9773 | javier.perez-maldonado@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

CAUTION: This email originated from outside of **YU & Associates**. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

From:	Perez-Maldonado, Javier (DEC)
To:	Chengyu Hang
Cc:	Sixuan Wang
Subject:	43-25 52nd Street (Site No. C241269) - Request to import #2 crushed stone material from Braen Stone of Sparta
Sent:	4/9/2024 8:06:58 AM

[EXTERNAL]
Chengyu,

The Department has reviewed the request dated April 2, 2024 to import up to 400 cubic yards of #2 crushed stone material from Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 (NYSDOT 8-44R). Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and the Remedial Design Work Plan and approval by the Department is required for any additional material imported from this source.

Regards,

Javier Perez-Maldonado
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233
P: (518) 402-8172 | F: (518) 402-9773 | javier.perez-maldonado@dec.ny.gov
www.dec.ny.gov | | |

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From:	Perez-Maldonado, Javier (DEC)
To:	Chengyu Hang
Cc:	Sixuan Wang
Subject:	43-25 52nd Street (Site No. C241269) - Request to import #4 crushed stone material from source Mt. Hope Quarry
Sent:	4/9/2024 8:08:51 AM

[EXTERNAL]
Chengyu,

The Department has reviewed the request dated April 2, 2024 to import up to 400 cubic yards of #4 crushed stone material from Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County, NJ. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and the Remedial Design Work Plan and approval by the Department is required for any additional material imported from this source.

Regards,

Javier Perez-Maldonado
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233
P: (518) 402-8172 | F: (518) 402-9773 | javier.perez-maldonado@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

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From:	Perez-Maldonado, Javier (DEC)
To:	Chengyu Hang
Cc:	Sixuan Wang
Subject:	RE: 43-25 52nd Street (Site No. C241269) - Request to import #2 crushed stone material from Stone Industries, Inc.
Sent:	4/9/2024 8:04:38 AM

[EXTERNAL]
Chengyu,

The Department has reviewed the request dated April 2, 2024 to import up to 400 cubic yards of #2 crushed stone material from Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508 (NYSDOT 8-24R). Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and the Remedial Design Work Plan and approval by the Department is required for any additional material imported from this source.

Regards,

Javier Perez-Maldonado
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
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NEW YORK STATE | Department of Environmental Conservation

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Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

01/25/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product. We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
	3" (75mm)	100.0	%	100-100
	2 1/2" (63mm)	92.2	%	90-100
	2" (50mm)	52.7	%	35-70
	1 1/2" (37.5mm)	12.0	%	0-15
	3/4" (19mm)	2.4	%	0-5

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Crushed Stone, Washed Stone, Washed Sand Products, and Certified Fill, extracted, blended, and/or manufactured from the following virgin material sources of Marble/Limestone stone deposit; naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number fine aggregate 8-70RFM. NJ Mine Registration number 004862.

To the best of our knowledge this material contained no hazardous or contaminated materials prior to shipment.

If you have any questions, please call Russ Berger at 973-720-6443 or email rberger@braenstone.com

Name/Title John Morgan / QC Tech

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004862

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Braen Aggragates LLC

LOCATION: Braen Aggragates LLC
280 Corkhill Rd
Franklin, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Sussex

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
280 Corkhill Rd	
25.01, 35, 20000, 2	4, 24, 27, 32, 27, 17

MAILED
03/08/23

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

02/05/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product.
This Product conforms to 2019 NJDOT Standard Specifications; Section 900 § 901.
We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
AASHTO T2; T248; T27 / ASTM C136	3" (75mm)	99.4	%	100-100
	2 1/2" (63mm)	88.4	%	90-100
	2" (50mm)	50.6	%	35-70
	1 1/2" (37.5mm)	21.2	%	0-15
	3/4" (19mm)	0.8	%	0-5

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Fill Products are extracted and produced at our **virgin basalt trap rock** deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07,; Blk 1901, lot26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number of course aggregate 8-24R, The NJ Mine Registration # 004864.

If you have any questions, please call Russ Berger at 973-720-6443 or email RBerger@braenstone.com

Signature Russ Berger

Name/Title Russ Berger / Director of Quality Control

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004864

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Stone Industries

LOCATION: Stone Industries
400-402 Central Ave
Haledon, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Passaic

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
400-402 Central Ave	
58, 58.01, 59, 29.01, 1901, 2000	7, 1, 1, 1.071, 25, 26, 56, 57, 58

MAILED
03/8/23

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

01/22/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product. We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
	3" (75mm)	100.0	%	100-100
	2 1/2" (63mm)	90.8	%	90-100
	2" (50mm)	66.8	%	35-70
	1 1/2" (37.5mm)	4.3	%	0-15
	3/4" (19mm)	0.7	%	0-5

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 - Crushed Stone, Washed Sand Products, and Certified Fill, are extracted, blended, and/or manufactured from the following virgin material sources: granite-gneiss stone deposit; naturally occurring overburden soil material, located on Block 11001, 1.02, 108.01; Lot 1,171,172,173,174,1,2,4,5, 1, Borough of Sparta, Sussex County, The NYSDOT Source Numbers course aggregate 8-44R, and the fine aggregate 8-44RFM. NJ Mine Registration Number is 004863.
To the best of our knowledge this material contained no hazardous or contaminated materials prior to shipment.

If you have any questions, please call Russ Berger at 973-720-6443 or email RBerger@braenstone.com

Name/Title John Morgan / QC Tech

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004863

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Braen Royalties

LOCATION: Braen Royalties
217 Limecrest Rd
Lafayette, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Sussex

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
217 Limecrest Rd	
11001, 1.02, 108.01	1, 171, 172, 173, 174, 1, 2, 4, 5, 1

MAILED
03/08/23

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

01/25/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product. We do not expect any changes to this product for the duration of the project.

057-#57 Stone

Procedure	Sieve/Test	Average	Unit	ASTM C33 No. 57
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	95.6	%	95-100
	3/4" (19mm)	82.3	%	
	1/2" (12.5mm)	44.1	%	25-60
	3/8" (9.5mm)	23.0	%	
	#4 (4.75mm)	3.5	%	0-10
	#8 (2.36mm)	2.7	%	0-5
	#200 (75µm)	0.76	%	

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 - Crushed Stone, Washed Sand Products, and Certified Fill, are extracted, blended, and/or manufactured from the following virgin material sources: granite-gneiss stone deposit; naturally occurring overburden soil material, located on Block 11001, 1.02, 108.01; Lot 1,171,172,173,174,1,2,4,5, 1, Borough of Sparta, Sussex County, The NYSDOT Source Numbers course aggregate 8-44R, and the fine aggregate 8-44RFM. NJ Mine Registration Number is 004863.
To the best of our knowledge this material contained no hazardous or contaminated materials prior to shipment.

If you have any questions, please call Russ Berger at 973-720-6443 or email RBerger@braenstone.com

Signature Russ Berger

Name/Title Russ Berger / Director of Quality Control

Philip D. Murphy
Governor

Tahesha L. Way
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004863
Expiration Date: 03/31/2025

MINE REGISTRATION CERTIFICATE

ISSUED TO: Braen Royalties

LOCATION: Braen Royalties
217 Limecrest Rd
Lafayette, NJ

BLK NO(S): SEE BELOW
LOT NO(S): SEE BELOW
COUNTY: Sussex
FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RC Angelo
Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
217 Limecrest Rd	
11001, 1.02, 108.01	1, 171, 172, 173, 174, 1, 2, 4, 5, 1

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

A CRH COMPANY

People • Character • Innovation • Performance

April 16, 2024

EarthEfficient LLC
30 W Main St
Riverhead, NY 11901

Re: Mt Hope – ASTM#57

Customer;

As it is produced at Mt Hope quarry ASTM#57 is manufactured to meet the New York State Department of Transportation (NYSDOT) and New Jersey Department of Transportation (NJDOT), and ASTM Standard Specifications. Mount Hope source is included on the NJDOT Qualified Products List, available at:

www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Mount Hope quarry supplies 100% virgin granite (Gneiss) that is quarried and processed to finished sizes. Material shipped from our Mount Hope Facility is clean and free of contaminants prior to loading. Our Mount Hope Quarry source (#8-32R) was approved by the NYSDOT under test 20AR093 and the letter to this effect is attached.

Attached, please find, the gradation, and third-party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at leslie.dalessandro@tilconny.com
Very truly yours,
TILCON NEW YORK, INC.

Leslie Dalessandro

Leslie Dalessandro
Quality Control Department

Client: Tilcon New York Inc.
Project: 2024 Quality Control – Mount Hope, NJ
Project Code: 231663
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Advance Testing Co., Inc received four (4) aggregate samples on November 27, 2023. The Source of all aggregates was Mount Hope Quarry. At the client's request, the samples were tested for the following properties:

- Sand Equivalent Value: ASTM D2419
- Specific Gravities: ASTM C128
- Resistance to Degradation (Los Angeles Abrasion): ASTM C131
- Magnesium Sulfate Soundness: ASTM C88
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A
- Clay Lumps and Friable Particles in Aggregate: AASHTO T112, ASTM C142
- Lightweight Particles in Aggregate: ASTM C123, AASHTO T113

Client: Tilcon New York Inc.
Project: 2024 Quality Control – Mount Hope, NJ
Project Code: 231663
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Type of Test	Screenings	Sand	#8 Stone	#57 Stone
Sand Equivalent Value, %	72	93	Not Applicable	Not Applicable
Specific Gravity				
• **Bulk**	2.699	2.685	2.684	2.687
• **Bulk-SSD**	2.712	2.697	2.697	2.697
• **Apparent**	2.735	2.718	2.719	2.716
Water Absorption, SSD, %	0.49	0.45	0.52	0.39
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	29.2	24.2
Soundness, % Loss (5 Cycle Magnesium Sulfate)	5.94	6.37	0.32	0.11
Uncompacted Void Content, %	49.6	47.6	Not Applicable	Not Applicable
Clay Lumps and Friable Particles in Aggregate	Not Applicable	Not Applicable	Not Applicable	0.0
Percent Lightweight Particles in Aggregate	Not Applicable	Not Applicable	Not Applicable	0.0

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez
Laboratory Manager
Advance Testing Company, Inc.

TILCON
A CRH COMPANY

Quality Test Report

Plant 060_00418-Mt. Hope Quarry
Product 3/4"-ASTM 57
Specification ASTM 57

1717480898

Sample Information

Sample No 1717480898
Date Sampled 03/27/2024 12:12
Sampled By Yara Ibrahim
Type Production
Method Load-out Face

Split Sample ☐
Resample ☐

Gradation Results

Date Completed 03/27/2024 12:12
Tested By Yara Ibrahim

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
lb		17.15				

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1" (25mm)	0.00	0.00	0	0	100	100-100\100	95-100	
3/4" (19mm)	1.30	1.30	8	8	92			
1/2" (12.5mm)	9.80	11.10	57	65	35	31-69\50	25-60	
3/8" (9.5mm)	4.20	15.30	24	89	11			
#4 (4.75mm)	1.20	16.50	7	96	4	0-7\3	0-10	
#8 (2.36mm)	0.25	16.75	1	98	2		0-5	
Pan	0.40	17.15	2.3	100.0	0.0			

Philip D. Murphy
Governor

Tahesha L. Way
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004851

Expiration Date: 03/31/2025

MINE REGISTRATION CERTIFICATE

ISSUED TO: Tilcon New York Inc-Mt Hope Quarry

LOCATION: Tilcon New York Inc-Mt Hope Quarry
625 Mt Hope Rd
Wharton, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Morris

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
625 Mt Hope Rd	
20001, 70001,, 20101	501, 502, 7, 2, 6

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

March 28, 2023

EarthEfficient LLC
30 W Main Street, Suite 217
Riverhead, NY 11901

Re: Mt Hope ASTM#4

Hello;

As it is produced by our Mount Hope quarry, ASTM#4 is manufactured to meet New Jersey Department of Transportation and ASTM Standard Specifications. Mount Hope source appears on the NJDOT Qualified Products List, which is available at:

www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Our Mount Hope quarry supplies 100% virgin granite (Gneiss) that is quarried and processed to finished sizes. Material shipped from Mount Hope Facility is clean and free of contaminants prior to loading.

Attached, please find typical gradation, Clean Fill Certification and third-party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at leslie.dalessandro@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Leslie Dalessandro
Leslie Dalessandro
Quality Control Department

TILCON NEW YORK INC.

PHONE: 973-366-7741 9 ENTIN ROAD, PARSIPPANY, New Jersey 07054

2024 Clean Fill Material Certification- *NJ Locations Only*

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials, and conform to section 901 of the *2019 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*, the material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality List (QPL) of the NJDOT website

http://www.state.nj.us/transportation/eng/materials/qualified/QPRDB.shtm

Pompton Lakes Quarry- Granite Gneiss, 84 Borough of Pompton Lakes, Passaic County Blocks (No) 5105 Block No 5105- Lot 84, 14.2. Pompton Lakes quarry contains NJDOT approved crushed stone and certified fill products approved crushed stone and certified fill products.

Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot(s) 5.01,5.02,7; Block 70001 Lot No 2; Block No 20101 Lot No 6. Mt Hope quarry contains NJDOT-approved crushed stone, washed products, and certified fill products.

Tilcon NY Inc. has had Pompton Lakes and Mt Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the above quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry- Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Block 13, 12 Lot NO(s) 25, 26, 27, 29, 3. Riverdale Quarry NJDOT-approved crushed stone washed products and certified fill materials.

Oxford Quarry- Granite Gneiss and Limestone, Quarry and Mt Pisgah Avenue, White Township, Warren County Block 32- Lots 15,16 Block 33- Lots 22,23 Block 34 Lots 19,20 Block 25- Lots 3,5,9,90.1 NJDOT approved crushed stone, washed products and certified materials.

Tilcon New York, INC Quality Control 973-659-3790

An Equal Opportunity Employer

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2023
Project Code: 221548
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Advance Testing Co., Inc received four (4) aggregate samples on November 7, 2022. The Source of all aggregates was Mount Hope Quarry. At the client's request, the samples were tested for the following properties:

- Specific Gravities: ASTM C128
- Resistance to Degradation (Los Angeles Abrasion): ASTM C131
- Magnesium Sulfate Soundness: ASTM C88
- Sand Equivalent Value: ASTM D2419
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2022
Project Code: 210003
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Type of Test	Washed Sand	Screenings	#8 Stone	#57 Stone
Sand Equivalent Value, %	91	67	Not Applicable	Not Applicable
Specific Gravity				
• **Bulk**	2.682	2.699	2.619	2.721
• **Bulk-SSD**	2.700	2.709	2.645	2.727
• **Apparent**	2.731	2.725	2.689	2.739
Water Absorption, SSD, %	0.67	0.36	0.99	0.24
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	34.4	28.7
Soundness, % Loss (5 Cycle Magnesium Sulfate)	2.22	3.85	5.89	0.62
Uncompacted Void Content, %	47.0	49.4		Not Applicable
Rock Type	Granite			

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez

Laboratory Manager

Advance Testing Company, Inc.

Quality Test Report

Plant 060_00418-Mt. Hope Quarry
Product 1 1/4"-ASTM 4
Specification ASTM 4

1845654569

Sample Information

Sample No 1845654569
Date Sampled 03/08/2024 13:41
Sampled By Jarryd Megargel
Type Production
Method Load-out Face

Split Sample ☐
Resample ☐

Gradation Results

Date Completed 03/08/2024 13:41
Tested By Jarryd Megargel

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
lb		43.95				

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2" (50mm)	0.00	0.00	0	0	100		100-100	
1 1/2" (37.5mm)	0.00	0.00	0	0	100	100-100\100	90-100	
1" (25mm)	24.65	24.65	56	56	44	18-59\38	20-55	
3/4" (19mm)	18.70	43.35	43	99	1	0-6\3	0-15	
1/2" (12.5mm)	0.40	43.75	1	100	0			
3/8" (9.5mm)	0.05	43.80	0	100	0	0-2\1	0-5	
Pan	0.15	43.95	0.3	100.0	0.0			

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004851

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Tilcon New York Inc-Mt Hope Quarry

LOCATION: Tilcon New York Inc-Mt Hope Quarry
625 Mt Hope Rd
Wharton, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Morris

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

R A Angelo
Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
625 Mt Hope Rd	
20001, 70001,, 20101	501, 502, 7, 2, 6

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Choose an item

Have Ecological Resources been identified? Choose an item

Is this soil originating from the site? Choose an item

How many cubic yards of soil will be imported/reused? Choose an item

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? Choose an item

Does it contain less than 10%, by weight, material that passes a size 100 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? Choose an item

Is this material recycled concrete or brick from a DEC registered processing facility? Choose an item

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Chengyu Hang

Signature

04/02/2024

Date

Chengyu Hang

Print Name

YU & Associates, Inc.

Firm

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Russ Berger, Aggregate Division of Braen Stone Companies

Location where fill was obtained:

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416

Identification of any state or local approvals as a fill source:

NJDOT and NYSDOT

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Material specs and Mine Registration

The information provided on this form is accurate and complete.

Chengyu Hang

Signature

04-02-2024

Date

Chengyu Hang

Print Name

YU & Associates

Firm

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

01/25/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product. We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
	3" (75mm)	100.0	%	100-100
	2 1/2" (63mm)	92.2	%	90-100
	2" (50mm)	52.7	%	35-70
	1 1/2" (37.5mm)	12.0	%	0-15
	3/4" (19mm)	2.4	%	0-5

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Crushed Stone, Washed Stone, Washed Sand Products, and Certified Fill, extracted, blended, and/or manufactured from the following virgin material sources of Marble/Limestone stone deposit; naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number fine aggregate 8-70RFM. NJ Mine Registration number 004862.

To the best of our knowledge this material contained no hazardous or contaminated materials prior to shipment.

If you have any questions, please call Russ Berger at 973-720-6443 or email rberger@braenstone.com

Name/Title John Morgan / QC Tech

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004862

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Braen Aggragates LLC

LOCATION: Braen Aggragates LLC
280 Corkhill Rd
Franklin, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Sussex

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
280 Corkhill Rd	
25.01, 35, 20000, 2	4, 24, 27, 32, 27, 17

MAILED
03/08/23

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Russ Berger, Aggregate Division of Braen Stone Companies

Location where fill was obtained:

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508

Identification of any state or local approvals as a fill source:

NJDOT and NYSDOT

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Material specs and Mine Registration

The information provided on this form is accurate and complete.

Chengyu Hang

Signature

04-02-2024

Date

Chengyu Hang

Print Name

YU & Associates

Firm

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

02/05/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product.
This Product conforms to 2019 NJDOT Standard Specifications; Section 900 § 901.
We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
AASHTO T2; T248; T27 / ASTM C136	3" (75mm)	99.4	%	100-100
	2 1/2" (63mm)	88.4	%	90-100
	2" (50mm)	50.6	%	35-70
	1 1/2" (37.5mm)	21.2	%	0-15
	3/4" (19mm)	0.8	%	0-5

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Fill Products are extracted and produced at our **virgin basalt trap rock** deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07,; Blk 1901, lot26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number of course aggregate 8-24R, The NJ Mine Registration # 004864.

If you have any questions, please call Russ Berger at 973-720-6443 or email RBerger@braenstone.com

Signature Russ Berger

Name/Title Russ Berger / Director of Quality Control

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004864

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Stone Industries

LOCATION: Stone Industries
400-402 Central Ave
Haledon, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Passaic

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
400-402 Central Ave	
58, 58.01, 59, 29.01, 1901, 2000	7, 1, 1, 1.071, 25, 26, 56, 57, 58

MAILED
03/8/23

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Russ Berger, Aggregate Division of Braen Stone Companies

Location where fill was obtained:

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848

Identification of any state or local approvals as a fill source:

NJDOT and NYSDOT

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Material specs and Mine Registration

The information provided on this form is accurate and complete.

Chengyu Hang

Signature

04-02-2024

Date

Chengyu Hang

Print Name

YU & Associates

Firm

Aggregates Division

Approved Crushed Stone Certified Fill Products Washed Sand Products

Material Certification Calendar Year 2024

The Aggregate material**s** manufactured from our facilities listed below are virgin material sources. The products meet current requirements for State Projects as outlined in the NJDOT 2019 Standard Specifications Manual, Section 900, § 901, and the NYSDOT 2018 Standard Specifications Manual, Section 700, § 703.

Stone Industries, Inc. 400-402 Central Ave, Haledon, NJ 07508- Crushed Stone and Certified Fill Products are extracted and produced at our virgin basalt trap rock deposit located in the Borough of Haledon, Passaic County, on Blk 58, Lot 7; Blk 58.01, Lot 1; Block 59, Lot 1; Blk 29.01, Lot 1.07; Blk 1901, lot 26; Blk 2000, Lot 25,56,57,58, commonly known as 400/402 Central Avenue. The NYSDOT Source Number, of coarse, aggregate 8-24R, Test # 21AR037. The NJ Mine Registration # 004864.

Van Orden Sand & Gravel of Ringwood 589 Westbrook Rd Ringwood, NJ 07456- Crushed Stone, Washed Sand Products, are mined from the following virgin material sources of granite-gneiss stone deposit and Certified Fill from naturally occurring overburden soil material and/or glacial deposit of sand & gravel, located on Block 101; Lots 2 & 3, Borough of Ringwood, Passaic County, New Jersey. The NYSDOT Source Number for the coarse aggregate is 8-63R Test # 21AR020, and the fine aggregate - is 8-63RFM Test # 21AF 032. NJ Mine Registration Number 004865.

Braen Aggregates, LLC 280 Cork Hill Rd, Franklin, NJ 07416- Washed Crushed Stone, Washed Sand Products are mined from the following virgin material sources of Marble/Limestone stone deposit: The Certified Fill is from naturally occurring overburden soil material, located on Block 2501, 35, 20000.2; Lot 4,24,27,32,27,17, Borough of Franklin, Sussex County, New Jersey. The NYSDOT Source Number for the fine aggregate is 8-70RFM, and the NYSDOT test is # 21AF087. NJ Mine Registration number 004862.

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 – Washed Crushed Stone, Washed Sand Products, are mined from the following virgin material source: granite-gneiss stone deposit, and our Limestone products mined from Limestone deposit; The certified fill soil material, located on Block 11001, 108.01; Lot 171,172,173,174,2,4,5 Borough of Sparta, Sussex County, The NYSDOT Source Numbers for the coarse aggregate 8-44R Test # 21AR021, and the fine aggregate 8-44RFM, Test # 21AF033. NJ Mine Registration Number is 004863.

To the best of our knowledge, this material contained no hazardous or contaminated materials prior to shipment.

Braen Stone Companies

Aggregate Division

Visit our web site – www.braenstone.com
Phone – 973-720-7090
Fax 973-720-6456

01/22/2024

Dear Customer,

The values presented below represent typical grading (% Passing) and typical physical property values for this product. We do not expect any changes to this product for the duration of the project.

002-NJDOT # 2

Procedure	Sieve/Test	Average	Unit	NJDOT No.2
	3" (75mm)	100.0	%	100-100
	2 1/2" (63mm)	90.8	%	90-100
	2" (50mm)	66.8	%	35-70
	1 1/2" (37.5mm)	4.3	%	0-15
	3/4" (19mm)	0.7	%	0-5

Braen Stone of Sparta 217 Limecrest Road, Lafayette, NJ 07848 - Crushed Stone, Washed Sand Products, and Certified Fill, are extracted, blended, and/or manufactured from the following virgin material sources: granite-gneiss stone deposit; naturally occurring overburden soil material, located on Block 11001, 1.02, 108.01; Lot 1,171,172,173,174,1,2,4,5, 1, Borough of Sparta, Sussex County, The NYSDOT Source Numbers course aggregate 8-44R, and the fine aggregate 8-44RFM. NJ Mine Registration Number is 004863.
To the best of our knowledge this material contained no hazardous or contaminated materials prior to shipment.

If you have any questions, please call Russ Berger at 973-720-6443 or email RBerger@braenstone.com

Name/Title John Morgan / QC Tech

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004863

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Braen Royalties

LOCATION: Braen Royalties
217 Limecrest Rd
Lafayette, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Sussex

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

RA Angelo

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
217 Limecrest Rd	
11001, 1.02, 108.01	1, 171, 172, 173, 174, 1, 2, 4, 5, 1

MAILED
03/08/23

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Leslie Dalessandro, Quality Control Department of TILCON NEW YORK, INC.

Location where fill was obtained:

625 Mt Hope Rd, Wharton, NJ 07885

Identification of any state or local approvals as a fill source:

NJDOT

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

material spec, Clean Fill Certification and third-party test results

The information provided on this form is accurate and complete.

Chengyu Hang

Signature

04/02/2024

Date

Chengyu Hang

Print Name

YU & Associates

Firm

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

March 28, 2023

EarthEfficient LLC
30 W Main Street, Suite 217
Riverhead, NY 11901

Re: Mt Hope ASTM#4

Hello;

As it is produced by our Mount Hope quarry, ASTM#4 is manufactured to meet New Jersey Department of Transportation and ASTM Standard Specifications. Mount Hope source appears on the NJDOT Qualified Products List, which is available at:

www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Our Mount Hope quarry supplies 100% virgin granite (Gneiss) that is quarried and processed to finished sizes. Material shipped from Mount Hope Facility is clean and free of contaminants prior to loading.

Attached, please find typical gradation, Clean Fill Certification and third-party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at leslie.dalessandro@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Leslie Dalessandro
Leslie Dalessandro
Quality Control Department

TILCON NEW YORK INC.

PHONE: 973-366-7741 9 ENTIN ROAD, PARSIPPANY, New Jersey 07054

2024 Clean Fill Material Certification- *NJ Locations Only*

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials, and conform to section 901 of the *2019 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*, the material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality List (QPL) of the NJDOT website

http://www.state.nj.us/transportation/eng/materials/qualified/QPRDB.shtm

Pompton Lakes Quarry- Granite Gneiss, 84 Borough of Pompton Lakes, Passaic County Blocks (No) 5105 Block No 5105- Lot 84, 14.2. Pompton Lakes quarry contains NJDOT approved crushed stone and certified fill products approved crushed stone and certified fill products.

Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot(s) 5.01,5.02,7; Block 70001 Lot No 2; Block No 20101 Lot No 6. Mt Hope quarry contains NJDOT-approved crushed stone, washed products, and certified fill products.

Tilcon NY Inc. has had Pompton Lakes and Mt Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the above quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry- Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Block 13, 12 Lot NO(s) 25, 26, 27, 29, 3. Riverdale Quarry NJDOT-approved crushed stone washed products and certified fill materials.

Oxford Quarry- Granite Gneiss and Limestone, Quarry and Mt Pisgah Avenue, White Township, Warren County Block 32- Lots 15,16 Block 33- Lots 22,23 Block 34 Lots 19,20 Block 25- Lots 3,5,9,90.1 NJDOT approved crushed stone, washed products and certified materials.

Tilcon New York, INC Quality Control 973-659-3790

An Equal Opportunity Employer

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2023
Project Code: 221548
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Advance Testing Co., Inc received four (4) aggregate samples on November 7, 2022. The Source of all aggregates was Mount Hope Quarry. At the client's request, the samples were tested for the following properties:

- Specific Gravities: ASTM C128
- Resistance to Degradation (Los Angeles Abrasion): ASTM C131
- Magnesium Sulfate Soundness: ASTM C88
- Sand Equivalent Value: ASTM D2419
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2022
Project Code: 210003
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Type of Test	Washed Sand	Screenings	#8 Stone	#57 Stone
Sand Equivalent Value, %	91	67	Not Applicable	Not Applicable
Specific Gravity				
• **Bulk**	2.682	2.699	2.619	2.721
• **Bulk-SSD**	2.700	2.709	2.645	2.727
• **Apparent**	2.731	2.725	2.689	2.739
Water Absorption, SSD, %	0.67	0.36	0.99	0.24
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	34.4	28.7
Soundness, % Loss (5 Cycle Magnesium Sulfate)	2.22	3.85	5.89	0.62
Uncompacted Void Content, %	47.0	49.4		Not Applicable
Rock Type	Granite			

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez

Laboratory Manager

Advance Testing Company, Inc.

Quality Test Report

Plant 060_00418-Mt. Hope Quarry
Product 1 1/4"-ASTM 4
Specification ASTM 4

1845654569

Sample Information

Sample No 1845654569
Date Sampled 03/08/2024 13:41
Sampled By Jarryd Megargel
Type Production
Method Load-out Face

Split Sample ☐
Resample ☐

Gradation Results

Date Completed 03/08/2024 13:41
Tested By Jarryd Megargel

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
lb		43.95				

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2" (50mm)	0.00	0.00	0	0	100		100-100	
1 1/2" (37.5mm)	0.00	0.00	0	0	100	100-100\100	90-100	
1" (25mm)	24.65	24.65	56	56	44	18-59\38	20-55	
3/4" (19mm)	18.70	43.35	43	99	1	0-6\3	0-15	
1/2" (12.5mm)	0.40	43.75	1	100	0			
3/8" (9.5mm)	0.05	43.80	0	100	0	0-2\1	0-5	
Pan	0.15	43.95	0.3	100.0	0.0			

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004851

Expiration Date: 03/31/2024

MINE REGISTRATION CERTIFICATE

ISSUED TO: Tilcon New York Inc-Mt Hope Quarry

LOCATION: Tilcon New York Inc-Mt Hope Quarry
625 Mt Hope Rd
Wharton, NJ

BLK NO(S): SEE BELOW

LOT NO(S): SEE BELOW

COUNTY: Morris

FEE: $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

R A Angelo
Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)	LOT NO(S)
625 Mt Hope Rd	
20001, 70001,, 20101	501, 502, 7, 2, 6

Appendix Q — Documentation of Electronic Data Deliverables (EDD) Acceptance

Chengyu Hang

From: Noel D'Antonio
Sent: Wednesday, June 11, 2025 3:21 PM
To: Chengyu Hang
Subject: FW: Successfully loaded EDD (20250611 1435.C241269.NYSDEC_v5_MERGE.zip)
Attachments: 20250611 1435.C241269.NYSDEC_v5_MERGE.Commit.zip

Noel D'Antonio
Environmental Engineer

YU & Associates

Elmwood Park, NJ ▪ New York, NY

-----Original Message-----
From: NYENVDATA@dec.ny.gov <NYENVDATA@dec.ny.gov>
Sent: Wednesday, June 11, 2025 3:19 PM
To: Noel D'Antonio <ndantonio@yu-associates.com>
Subject: Successfully loaded EDD (20250611 1435.C241269.NYSDEC_v5_MERGE.zip)

[EXTERNAL]

Data from '20250611 1435.C241269.NYSDEC_v5_MERGE.zip' has been successfully loaded into the database.

CAUTION: This email originated from outside of YU & Associates. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

Appendix R - Environmental Footprint Analysis and Climate Screening Checklist

Sustainable Remediation Summary - Remediation

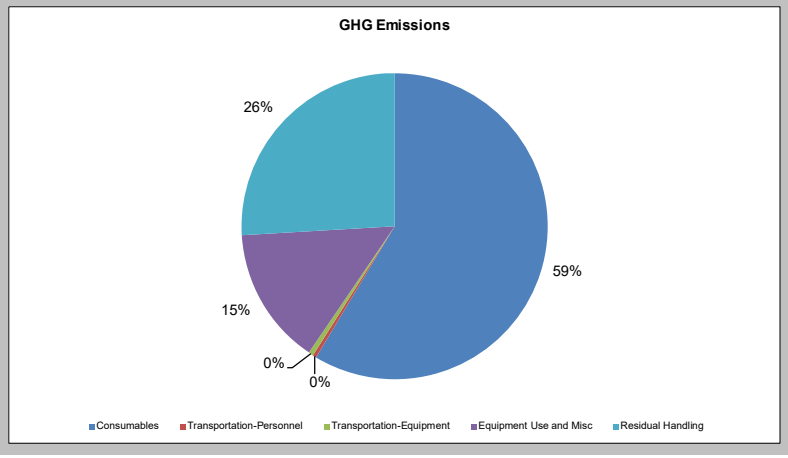
Activities	GHG Emissions	Percent Total	Total Energy Used	Percent Total	Water Consumption	Percent Total	Electricity Usage	Percent Total	Onsite NOx Emissions	Percent Total	Onsite SOx Emissions	Percent Total	Onsite PM10 Emissions	Percent Total	Total NOx Emissions	Percent Total	Total SOx Emissions	Percent Total	Total PM10 Emissions	Percent Total	Accident Risk Fatality	Percent Total	Accident Risk Injury	Percent Total
	metric ton	%	MMBTU	%	gallons	%	MWH	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%		%		%
Consumables	6,609.44	58.6	1.1E+05	62.7	NA	NA	NA	NA	NA	-	NA	-	NA	-	1.5E+01	60.5	2.5E+01	82.1	5.1E+00	85.9	NA	NA	NA	NA
Transportation-Personnel	43.99	0.4	5.4E+02	0.3	NA	NA	NA	NA	NA	-	NA	-	NA	-	1.3E-02	0.1	1.5E-02	0.1	2.6E-03	0.0	7.0E-04	0.9	5.8E-02	0.3
Transportation-Equipment	59.70	0.5	8.2E+02	0.5	NA	NA	NA	NA	NA	-	NA	-	NA	-	1.9E-02	0.1	7.8E-04	0.0	1.6E-03	0.0	3.3E-04	0.4	2.6E-02	0.1
Equipment Use and Misc	1,641.48	14.5	2.4E+04	13.5	5.3E+02	100.0	1.0E+00	100.0	2.0E+00	100.0	4.4E-01	100.0	1.9E-01	100.0	8.6E+00	35.5	5.4E+00	17.7	7.5E-01	12.8	6.5E-02	86.1	1.7E+01	95.2
Residual Handling	2,927.86	26.0	4.0E+04	23.0	NA	NA	NA	NA	0.0E+00	-	0.0E+00	-	0.0E+00	-	9.4E-01	3.9	3.8E-02	0.1	7.6E-02	1.3	9.5E-03	12.6	7.7E-01	4.4
Total	11,282.48	100.0	1.75E+05	100.0	5.34E+02	100.0	1.05E+00	100.0	1.99E+00	100.0	4.39E-01	100.0	1.87E-01	100.0	2.43E+01	100.0	3.02E+01	100.0	5.90E+00	100.0	7.59E-02	100.0	1.76E+01	100.0

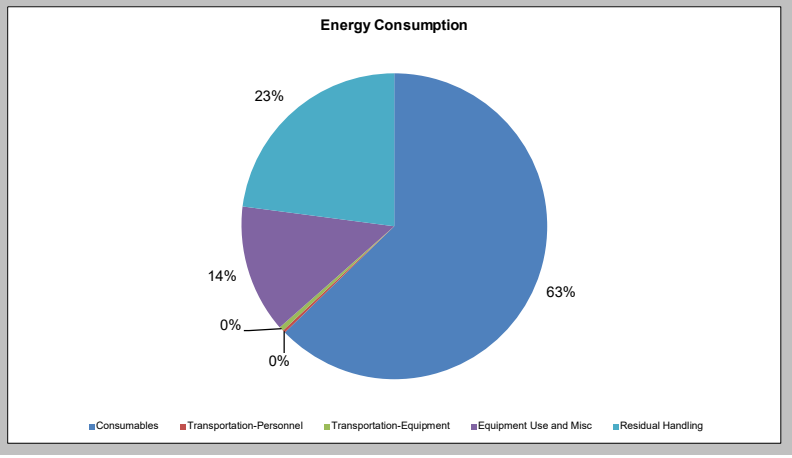
Additional Sustainability Metrics

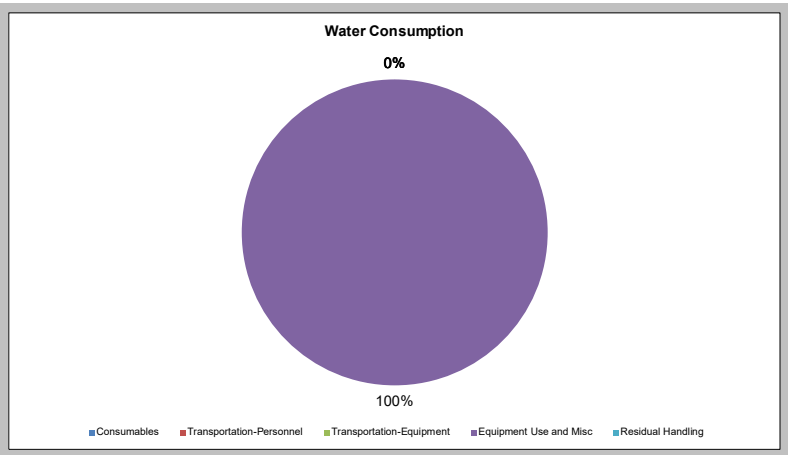
Non-Hazardous Waste Landfill Space (tons)	0.0
Hazardous Waste Landfill Space (tons)	0.0
Topsoil Consumption (yd^3)	0.0
Cost of Phase ($)	0.0
Lost Hours - Injury	140.5

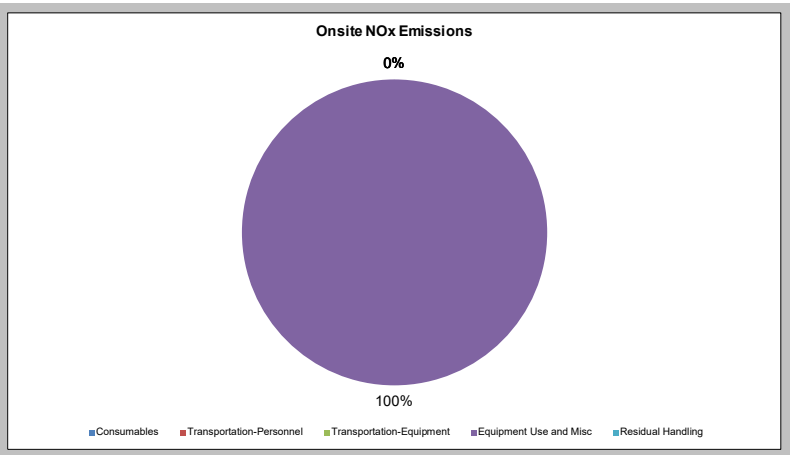
Footprint Reduction

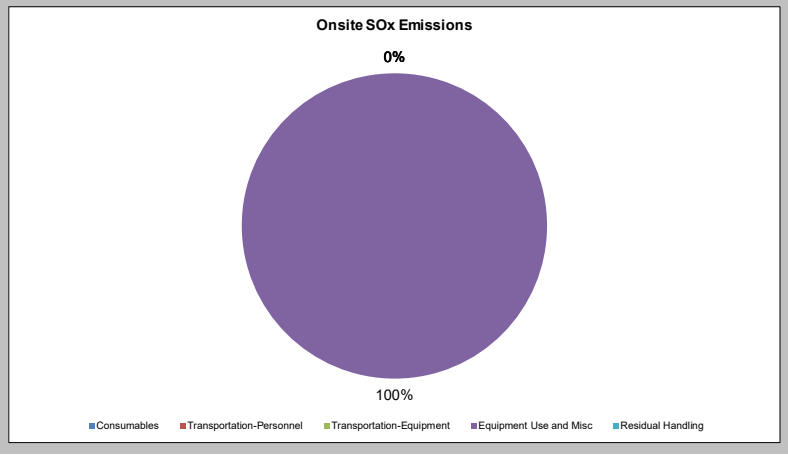
Total electricity replacement (MWh)	0.00E+00
Total electricity replacement (mmBtu)	0.00E+00
Percent electricity from renewable sources (%)	24.2%
Landfill gas reduction (metric ton CO_2 e)	0.00E+00
GHG emissions (metric ton CO2 e)	0.00E+00
NOx emissions (metric ton)	0.00E+00
SOx emissions (metric ton)	0.00E+00
PM10 emissions (metric ton)	0.00E+00

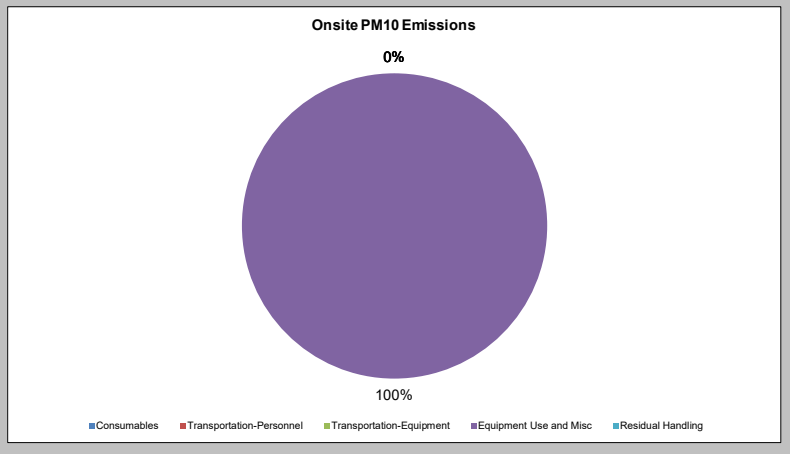


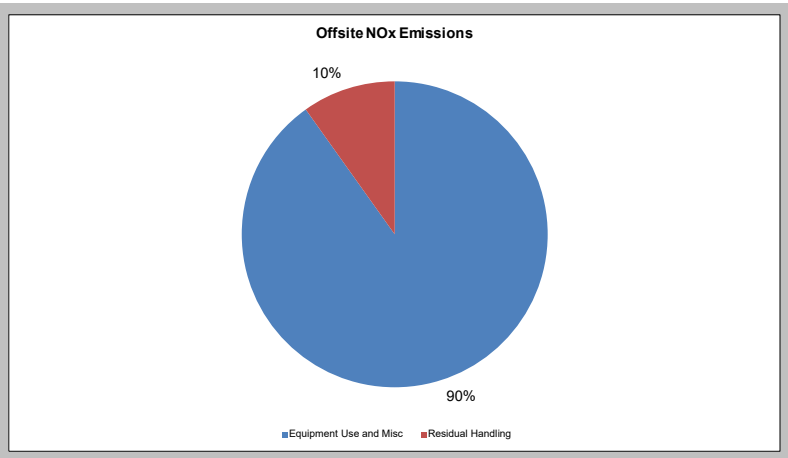


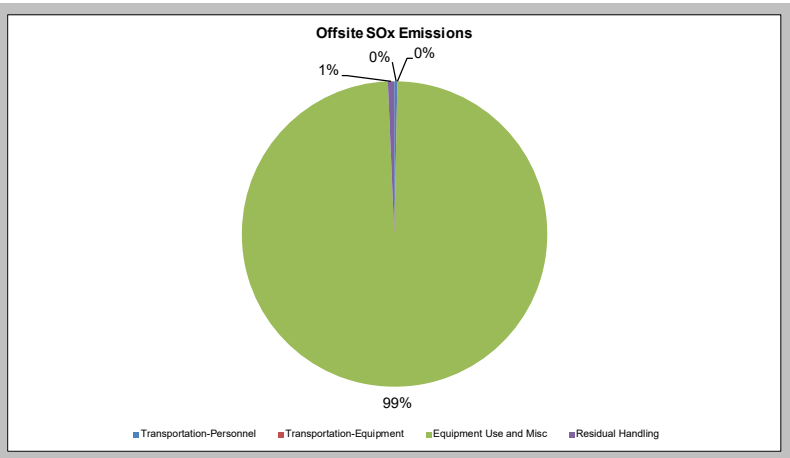

Water Consumption
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

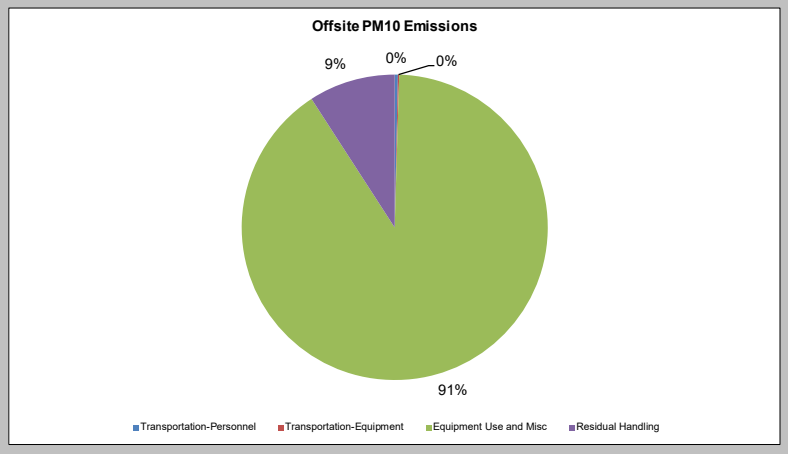

Onsite NOx Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

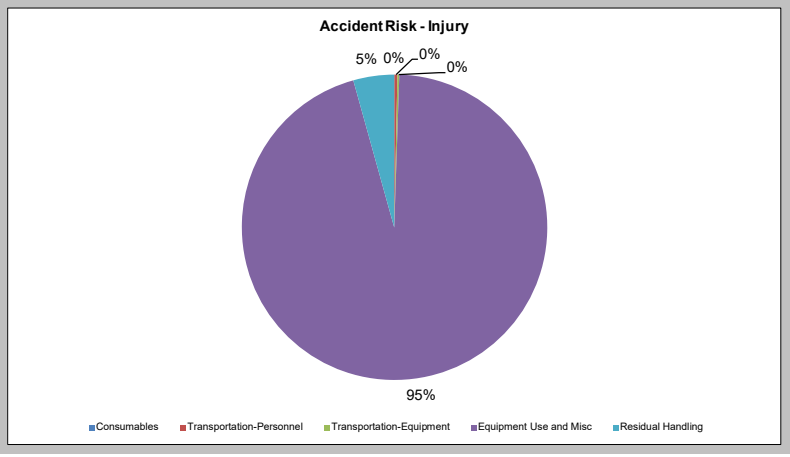

Onsite SOx Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

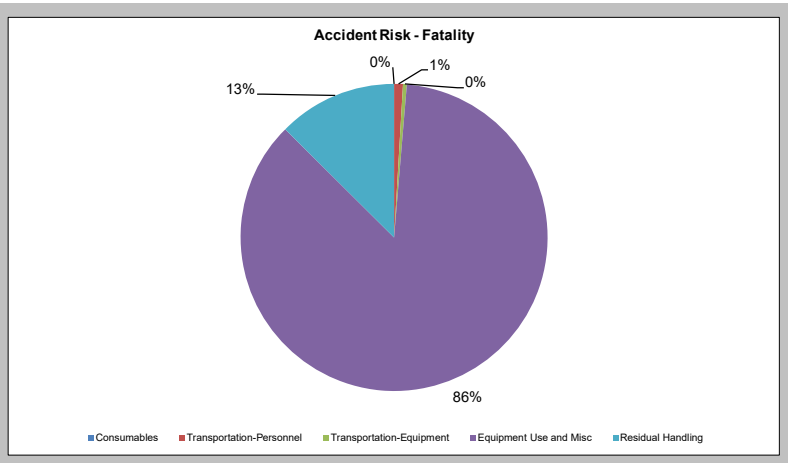

Onsite PM10 Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite NOx Emissions
10%
90%
Equipment Use and Misc
Residual Handling


Offsite SOx Emissions
0%
0%
1%
99%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite PM10 Emissions
9%
0%
0%
91%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Injury
5%
0%
0%
0%
95%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Fatality
0%
1%
0%
13%
86%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

This worksheet allows the user to calculate the life cycle environmental footprint of the materials used

Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

WELL MATERIALS

		WELL TYPE 1	WELL TYPE 2	WELL TYPE 3	WELL TYPE 4	WELL TYPE 5	WELL TYPE 6	WELL TYPE 7	WELL TYPE 8	WELL TYPE 9	WELL TYPE 10	WELL TYPE 11	WELL TYPE 12
	Number of wells	8	0	0	0	0	0	0	0	0	0	0	0
	Depth of wells (ft)	20	0	0	0	0	0	0	0	0	0	0	0
	Specific casing material schedule	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC
	Well diameter from drop down menu (in)	2	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
	Total weight of Sand (kg)	2.00E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total weight of Gravel (kg)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total weight of Bentonite (kg)	2.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total weight of Typical Cement (kg)	1.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total weight of General Concrete (kg)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total weight of Steel (kg)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Casing material type	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
	Weight of casing material (lb/ft)	7.20E-01	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02	5.10E-02
	Total length of casing material required (ft)	160	0	0	0	0	0	0	0	0	0	0	0
	Total weight of casing material required (lbs)	115	0	0	0	0	0	0	0	0	0	0	0
	Total weight of casing material required (kg)	52.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CO_2 e emission factor (kg CO_2/kg material)	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00	3.11E+00
	NOx emission factor (g/kg)	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00
	SOx emission factor (g/kg)	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00	9.70E+00
	PM_{10} emission factor (g/kg)	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
	MJ/kg material	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
	ENERGY OUTPUT												
	Energy used (BTU)	2.2E+08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	CO_2 OUTPUT												
	CO_2 e emission (metric ton)	6.9E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	NOx, SOx and PM_{10} OUTPUT												
	NOx emission (metric ton)	1.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	SOx emission (metric ton)	1.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	PM_{10} emission (metric ton)	2.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM WELL MATERIALS	
CO_2 e Emission (metric ton)	**6.9E-01**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**1.4E-03**
Offsite SOx Emission (metric ton)	**1.9E-03**
Offsite PM_{10} Emission (metric ton)	**2.5E-04**
Accident Risk - Fatality	**NA**
Accident Risk - Injury	**NA**
Water Used (gallons)	**NA**
Energy Used (BTU)	**2.2E+08**
Energy Used (MWh)	**NA**

CONSTRUCTION MATERIALS

		MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5	MATERIAL 6	MATERIAL 7	MATERIAL 8	MATERIAL 9	MATERIAL 10	MATERIAL 11	MATERIAL 12
	Material type	HDPE Liner	Gravel	General Concrete	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner
	Area of material (ft^2)	13560	10800	9000	0	0	0	0	0	0	0	0	0
	Depth of material (ft)	0.017	1	0.5	0	0	0	0	0	0	0	0	0
	Volume of material required (ft^3)	230.5	10800.0	4500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Density of material (kg/m^3)	965.0	1682.0	2371.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0
	Total weight of material required (kg)	6299.1	514392.6	302126.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CO_2 e emission factor (kg CO_2/kg material)	3.00E+00	1.70E-02	1.30E-01	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00
	NOx emission factor (g/kg)	6.20E+00	6.80E-02	2.60E-01	6.20E+00	6.20E+00	6.20E+00	6.20E+00	6.20E+00	6.20E+00	6.20E+00	6.20E+00	6.20E+00
	SOx emission factor (g/kg)	1.10E+01	8.50E-02	5.20E-01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01
	PM10 emission factor (g/kg)	1.60E+00	3.40E-02	1.04E-01	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00
	MJ/kg material	103.9	0.3	1.0	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
	ENERGY OUTPUT												
	Energy used (BTU)	6.2E+08	1.5E+08	2.7E+08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	CO_2 OUTPUT												
	CO_2 e emission (metric ton)	1.9E+01	8.7E+00	3.9E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	NOx, SOx and PM_{10} OUTPUT												
	NOx emission (metric ton)	3.9E-02	3.5E-02	7.9E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	SOx emission (metric ton)	6.9E-02	4.4E-02	1.6E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	PM_{10} emission (metric ton)	1.0E-02	1.7E-02	3.1E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM CONSTRUCTION MATERIALS	
CO_2 e Emission (metric ton)	**6.7E+01**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**1.5E-01**
Offsite SOx Emission (metric ton)	**2.7E-01**
Offsite PM_{10} Emission (metric ton)	**5.9E-02**
Accident Risk - Fatality	**NA**
Accident Risk - Injury	**NA**
Water Used (gallons)	**NA**
Energy Used (BTU)	**1.0E+09**
Energy Used (MWh)	**NA**

BULK MATERIAL QUANTITIES

	MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5	MATERIAL 6	MATERIAL 7	MATERIAL 8	MATERIAL 9	MATERIAL 10	MATERIAL 11	MATERIAL 12
Material type	Stainless Steel	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid
Units of quantity	cubic feet	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Quantity	13	0	0	0	0	0	0	0	0	0	0	0
Density of material (kg/m^3)	7800.0	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6
Total weight of material required (kg)	2786.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO_2 e emission factor (kg CO_2/kg material)	6.15E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00
NOx emission factor (g/kg)	1.23E+01	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00	4.08E+00
SOx emission factor (g/kg)	1.64E+01	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00	6.80E+00
PM10 emission factor (g/kg)	2.05E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00
MJ/kg material	56.7	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
ENERGY OUTPUT												
Energy used (BTU)	1.5E+08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 e emission (metric ton)	1.7E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	3.4E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	4.6E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	5.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM BULK MATERIALS	
CO_2 e Emission (metric ton)	1.7E+01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	3.4E-02
Offsite SOx Emission (metric ton)	4.6E-02
Offsite PM_{10} Emission (metric ton)	5.7E-03
Accident Risk - Fatality	NA
Accident Risk - Injury	NA
Water Used (gallons)	NA
Energy Used (BTU)	1.5E+08
Energy Used (MWh)	NA

TOTAL FROM MATERIAL PRODUCTION	
CO_2 e Emission (metric ton)	8.5E+01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	1.9E-01
Offsite SOx Emission (metric ton)	3.2E-01
Offsite PM_{10} Emission (metric ton)	6.5E-02
Accident Risk - Fatality	NA
Accident Risk - Injury	NA
Water Used (gallons)	NA
Energy Used (MMBTU)	1.4E+03
Energy Used (MWh)	NA

This worksheet allows the user to calculate	the environmental footprint of personnel travel
Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

TRANSPORTATION - ROAD

	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Vehicle type	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars
Fuel used	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Distance traveled per trip (miles)	23.8	23.8	23.8	23.8	8	0	0	0	0	0	0	0
Number of trips taken	2	4	6	30	12	0	0	0	0	0	0	0
Number of travelers	1	1	1	1	1	0	0	0	0	0	0	0
Total distance traveled (miles)	47.6	95.2	142.8	714	96	0	0	0	0	0	0	0
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Consumption rate (MPG)	29	29	29	29	29	29	29	29	29	29	29	29
Estimated MPG (input the default if not known)	0	0	0	0	0	0	0	0	0	0	0	0
Total fuel used (gallons)	1.6	3.3	4.9	24.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BTU per gallon fuel used	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015
CO_2 emission factor (g/mile)	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02	3.67E+02
N_2O emission factor (g/mile)	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02
CH_4 emission factor (g/mile)	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01	4.46E-01
NOx emission factor (g/mile)	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01
SOx emission factor (g/mile)	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03
PM_{10} emission factor (g/mile)	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02
ENERGY OUTPUT												
Energy used (BTU)	2.3E+05	4.6E+05	6.8E+05	3.4E+06	4.6E+05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	1.7E-02	3.5E-02	5.2E-02	2.6E-01	3.5E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	2.4E-04	4.9E-04	7.3E-04	3.7E-03	4.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emission (metric ton CO_2 e)	4.5E-04	8.9E-04	1.3E-03	6.7E-03	9.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	6.7E-06	1.3E-05	2.0E-05	1.0E-04	1.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	2.4E-07	4.7E-07	7.1E-07	3.5E-06	4.8E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	1.4E-06	2.7E-06	4.1E-06	2.0E-05	2.7E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	3.7E-07	7.4E-07	1.1E-06	5.6E-06	7.5E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	3.0E-05	6.0E-05	9.0E-05	4.5E-04	6.0E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM ROAD TRANSPORTATION	
CO_2 e Emission (metric ton)	**4.2E-01**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**1.5E-04**
Offsite SOx Emission (metric ton)	**5.4E-06**
Offsite PM_{10} Emission (metric ton)	**3.1E-05**
Accident Risk - Fatality	**8.5E-06**
Accident Risk - Injury	**6.9E-04**
Water Used (gallons)	**NA**
Energy Used (BTU)	**5.3E+06**
Energy Used (MWh)	**NA**

TRANSPORTATION - RAIL

	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Type of rail used	Intercity rail	Commuter rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail
Distance traveled (miles)	7.2	0	0	0	0	0	0	0	0	0	0	0
Number of trips taken	156	0	0	0	0	0	0	0	0	0	0	0
Number of travelers	1	0	0	0	0	0	0	0	0	0	0	0
Total passenger miles traveled	1123.2	0	0	0	0	0	0	0	0	0	0	0
Energy consumption rate (BTU/passenger mile)	1,517	2,085	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517
CO_2 emission factor (kg/passenger mile)	1.30E-01	1.60E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01
N_2O emission factor (g/passenger mile)	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03
CH_4 emission factor (g/passenger mile)	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03
NOx emission factor (g/passenger mile)	1.20E-02	1.40E+00	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02
SOx emission factor (g/passenger mile)	1.70E-01	1.10E-02	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01
PM_{10} emission factor (g/passenger mile)	1.80E-03	3.80E-02	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03
ENERGY OUTPUT												
Energy used (BTU)	1.7E+06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	1.5E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	3.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emissions (metric ton CO_2 e)	4.7E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	1.3E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	2.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	4.5E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	5.8E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM RAIL TRANSPORTATION	
CO_2 e Emission (metric ton)	1.5E-01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	1.3E-05
Offsite SOx Emission (metric ton)	1.9E-04
Offsite PM_{10} Emission (metric ton)	2.0E-06
Accident Risk - Fatality	4.5E-07
Accident Risk - Injury	5.8E-05
Water Used (gallons)	NA
Energy Used (BTU)	1.7E+06
Energy Used (MWh)	NA

TOTAL FROM PERSONNEL TRANSPORTATION	
CO_2 e Emission (metric ton)	5.6E-01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	1.7E-04
Offsite SOx Emission (metric ton)	2.0E-04
Offsite PM_{10} Emission (metric ton)	3.3E-05
Accident Risk - Fatality	9.0E-06
Accident Risk - Injury	7.5E-04
Water Used (gallons)	NA
Energy Used (MMBTU)	7.0E+00
Energy Used (MWh)	NA

This worksheet allows the user to calculate the environmental footprint of equipment and material transport

Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

EQUIPMENT TRANSPORTATION - DEDICATED LOAD ROAD

	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Vehicle	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck	On road Truck
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Fuel used	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Account for an empty return trip?	Yes	No	No	No	No	No	No	No	No	No	No	No
Distance travelled (mi)	8	517	2	8	0	0	0	0	0	0	0	0
Weight of equipment transported (tons)	28.77	0.095	3.7	40	0	0	0	0	0	0	0	0
Fuel efficiency by weight of load (mpg)	4.5	7.4	7.0	3.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
Total fuel used (gal)	3	70	0	2	0	0	0	0	0	0	0	0
BTU per gallon fuel used	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015
CO_2 emission factor (g/gal)	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03
N_2O emission factor (g/gal)	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01
CH_4 emission factor (g/gal)	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01
NOx emission factor (g/gal)	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00
SOx emission factor (g/gal)	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01
PM_{10} emission factor (g/gal)	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01
ENERGY OUTPUT												
Energy used (BTU)	3.8E+05	9.7E+06	4.0E+04	3.4E+05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	2.7E-02	6.9E-01	2.8E-03	2.4E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	1.8E-04	4.5E-03	1.8E-05	1.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emissions (metric ton CO_2 e)	6.8E-04	1.7E-02	7.0E-05	6.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	9.1E-06	2.3E-04	9.3E-07	7.9E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	3.7E-07	9.3E-06	3.8E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	7.3E-07	1.9E-05	7.5E-08	6.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	6.0E-08	4.0E-06	1.6E-08	6.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	4.8E-06	3.2E-04	1.3E-06	5.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM DEDICATED LOAD ROAD TRANSPORTATION	
CO_2 e Emission (metric ton)	**7.7E-01**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**2.5E-04**
Offsite SOx Emission (metric ton)	**1.0E-05**
Offsite PM_{10} Emission (metric ton)	**2.0E-05**
Accident Risk - Fatality	**4.2E-06**
Accident Risk - Injury	**3.4E-04**
Water Used (gallons)	**NA**
Energy Used (BTU)	**1.0E+07**
Energy Used (MWh)	**NA**

TOTAL FROM EQUIPMENT TRANSPORTATION	
CO_2 e Emission (metric ton)	**7.7E-01**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**2.5E-04**
Offsite SOx Emission (metric ton)	**1.0E-05**
Offsite PM_{10} Emission (metric ton)	**2.0E-05**
Accident Risk - Fatality	**4.2E-06**
Accident Risk - Injury	**3.4E-04**
Water Used (gallons)	**NA**
Energy Used (MMBTU)	**1.0E+01**
Energy Used (MWh)	**NA**

This worksheet allows the user to calculate the environmental footprint of using electrical equipment	
Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

Equipment Operation - For each type of equipment, select only one of the methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused equipment columns or unused methods

		Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
	Type of equipment	Compressor	Compressor	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower
Method 1 - IF NAME PLATE SPECIFICATIONS ARE KNOWN													
	Equipment horsepower (hp)	3	0	0	0	0	0	0	0	0	0	0	0
	Number of equipments operating	2	0	0	0	0	0	0	0	0	0	0	0
	Operating time for each equipment (hrs)	3	0	0	0	0	0	0	0	0	0	0	0
	Percent of maximum speed of motor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Equipment load	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
	Motor efficiency	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Method 2 - IF ELECTRICAL USAGE IS KNOWN													
	Equipment electrical usage, if known (KWh)	0	0	0	0	0	0	0	0	0	0	0	0
SELECT REGION													
	Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY
	CO_2 emission factor (lb/MWh)	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02	6.67E+02
	N_2O emission factor (lb/MWh)	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03	7.36E-03
	CH_4 emission factor (lb/MWh)	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00
	NOx emission factor (lb/MWh)	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01	6.78E-01
	SOx emission factor (lb/MWh)	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01
	PM_{10} emission factor (lb/MWh)	5.07E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01
	Electricity production efficiency	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%	46.43%
	ENERGY OUTPUT												
	Energy used (kWh)	1.3E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Energy used (MWh)	1.3E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Energy used (BTU)	9.9E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	CO_2 OUTPUT												
	CO_2 emission (metric ton)	4.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	N_2O emission (metric ton CO_2 e)	1.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	CH_4 emission (metric ton CO_2 e)	2.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	NOx and SOx OUTPUT												
	NOx emission (metric ton)	4.1E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	SOx emission (metric ton)	5.5E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	PM_{10} emission (metric ton)	3.1E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM ELECTRICAL EQUIPMENT OPERATION	
CO_2 e Emission (metric ton)	**4.3E-03**
Onsite NOx Emission (metric ton)	**NA**
Onsite SOx Emission (metric ton)	**NA**
Onsite PM_{10} Emission (metric ton)	**NA**
Offsite NOx Emission (metric ton)	**4.1E-06**
Offsite SOx Emission (metric ton)	**5.5E-06**
Offsite PM_{10} Emission (metric ton)	**3.1E-06**
Accident Risk - Fatality	**NA**
Accident Risk - Injury	**NA**
Water Used (gallons)	**6.8E+00**
Energy Used (MMBTU)	**9.9E-02**
Energy Used (MWh)	**1.3E-02**

GENERATORS

	Generator 1	Generator 2	Generator 3	Generator 4	Generator 5	Generator 6	Generator 7	Generator 8	Generator 9	Generator 10	Generator 11	Generator 12
Fuel type	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Horsepower range	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Operating hours (hr)	50	0	0	0	0	0	0	0	0	0	0	0
Consumption rate (gal/hr)	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02	6.51E-02
Fuel used (gal)	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BTU per gallon fuel used	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015
CO_2 emission factor (g/hr)	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02	7.2E+02
N_2O emission factor (g/hr)	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02
CH_4 emission factor (g/hr)	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00
NOx emission factor (g/hr)	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00	1.2E+00
SOx emission factor (g/hr)	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01
PM_{10} emission factor (g/hr)	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00	5.0E+00
Offsite NOx emission factor (g/hr)	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01
Offsite SOx emission factor (g/hr)	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01
Offsite PM_{10} emission factor (g/hr)	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02	6.8E-02
ENERGY OUTPUT												
Energy used (BTU)	4.5E+05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	3.6E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	3.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emissions (metric ton CO_2 e)	1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
Offsite NOx emission (metric ton)	2.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite SOx emission (metric ton)	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite PM_{10} emission (metric ton)	3.4E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite NOx emission (metric ton)	4.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite SOx emission (metric ton)	5.9E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite PM_{10} emission (metric ton)	2.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM GENERATOR OPERATION	
CO_2 e Emission (metric ton)	3.7E-02
Onsite NOx Emission (metric ton)	4.1E-05
Onsite SOx Emission (metric ton)	5.9E-06
Onsite PM_{10} Emission (metric ton)	2.5E-04
Offsite NOx Emission (metric ton)	2.1E-05
Offsite SOx Emission (metric ton)	1.1E-05
Offsite PM_{10} Emission (metric ton)	3.4E-06
Accident Risk - Fatality	NA
Accident Risk - Injury	NA
Water Used (gallons)	NA
Energy Used (MMBTU)	4.5E-01
Energy Used (MWh)	NA

TOTAL FROM ELECTRICAL EQUIPMENT OPERATIONS	
CO_2 e Emission (metric ton)	4.2E-02
Onsite NOx Emission (metric ton)	4.1E-05
Onsite SOx Emission (metric ton)	5.9E-06
Onsite PM_{10} Emission (metric ton)	2.5E-04
Offsite NOx Emission (metric ton)	2.6E-05
Offsite SOx Emission (metric ton)	1.7E-05
Offsite PM_{10} Emission (metric ton)	6.5E-06
Accident Risk - Fatality	NA
Accident Risk - Injury	NA
Water Used (gallons)	6.8E+00
Energy Used (MMBTU)	5.5E-01
Energy Used (MWh)	1.3E-02

This worksheet allows the user to calculate the environmental footprint of earthwork activities

Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

EARTHWORK EQUIPMENT

	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Earthwork equipment type	Excavator	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Fuel type	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Volume of material to be removed (yd^3)	5,302	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Approximate net power (hp)	270	65	65	65	65	65	65	65	65	65	65	65
Production rate (yd^3/hr)	239	0	0	0	0	0	0	0	0	0	0	0
Consumption rate (gal/hr)	11	5	5	5	5	5	5	5	5	5	5	5
Equipment operating hours (hr)	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel used (gal)	349.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BTU per gallon fuel used	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847
CO_2 emission factor (g/hr)	9.40E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04	2.99E+04
N_2O emission factor (g/hr)	2.38E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00	1.12E+00
CH_4 emission factor (g/hr)	5.40E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00	2.55E+00
Onsite NOx emission factor (g/hr)	5.46E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02	1.66E+02
Onsite SOx emission factor (g/hr)	1.49E+02	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01	4.10E+01
Onsite PM_{10} emission factor (g/hr)	4.50E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01	2.10E+01
Offsite NOx emission factor (g/hr)	6.6E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01	3.1E+01
Offsite SOx emission factor (g/hr)	3.5E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01	1.6E+01
Offsite PM_{10} emission factor (g/hr)	1.0E+01	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00
ENERGY OUTPUT												
Energy used (BTU)	4.8E+07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission - (metric ton)	3.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	2.4E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emissions (metric ton CO_2 e)	3.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
Offsite NOx emission (metric ton)	2.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite SOx emission (metric ton)	1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite PM_{10} emission (metric ton)	3.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite NOx emission (metric ton)	1.8E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite SOx emission (metric ton)	4.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite PM_{10} emission (metric ton)	1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	3.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	7.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM BACKHOE, DOZER, AND SCRAPER OPERATION	
CO_2 e Emission (metric ton)	3.1E+00
Onsite NOx Emission (metric ton)	1.8E-02
Onsite SOx Emission (metric ton)	4.8E-03
Onsite PM_{10} Emission (metric ton)	1.5E-03
Offsite NOx Emission (metric ton)	2.2E-03
Offsite SOx Emission (metric ton)	1.1E-03
Offsite PM_{10} Emission (metric ton)	3.2E-04
Accident Risk - Fatality	3.0E-06
Accident Risk - Injury	7.4E-04
Water Used (gallons)	NA
Energy Used (MMBTU)	4.8E+01
Energy Used (MWh)	NA

WELL DRILLING EQUIPMENT

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
Number of injection and extraction points/wells	8	10	0	0	0	0	0	0	0	0	0	0
Drilling method	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push
Drilling fuel consumption rate (gal/hr)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Time spent drilling each injection site (hr)	2.5	7	0	0	0	0	0	0	0	0	0	0
Fuel type	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Total time drilling well (hr)	20.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fuel consumption during drilling (gal)	16.0	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BTU per gallon fuel used	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847	135,847
CO_2 emission factor (kg/gallon)	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01
N_2O emission factor (g/gal)	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01	1.23E-01
CH_4 emission factor (g/gal)	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01
NOx emission factor (g/gal)	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02
SOx emission factor (g/gal)	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01	1.42E+01
PM_{10} emission factor (g/gal)	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01
Offsite NOx emission factor (g/hr)	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00	4.9E+00
Offsite SOx emission factor (g/hr)	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00	2.6E+00
Offsite PM_{10} emission factor (g/hr)	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01
ENERGY OUTPUT												
Energy used (BTU)	2.2E+06	7.6E+06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission from drilling (metric ton)	1.8E-01	6.1E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2e)	6.1E-04	2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emission (metric ton CO_2e)	4.1E-03	1.5E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
Offsite NOx emission (metric ton)	9.8E-05	3.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite SOx emission (metric ton)	5.1E-05	1.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Offsite PM_{10} emission (metric ton)	1.5E-05	5.2E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite NOx emission (metric ton)	1.7E-03	6.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite SOx emission (metric ton)	1.8E-04	6.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Onsite PM_{10} emission (metric ton)	1.5E-04	5.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	1.8E-06	6.4E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	4.6E-04	1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM WELL DRILLING	
CO_2 e Emission (metric ton)	8.1E-01
Onsite NOx Emission (metric ton)	7.7E-03
Onsite SOx Emission (metric ton)	7.9E-04
Onsite PM_{10} Emission (metric ton)	7.0E-04
Offsite NOx Emission (metric ton)	4.4E-04
Offsite SOx Emission (metric ton)	2.3E-04
Offsite PM_{10} Emission (metric ton)	6.6E-05
Accident Risk - Fatality	8.2E-06
Accident Risk - Injury	2.1E-03
Water Used (gallons)	NA
Energy Used (MMBTU)	9.8E+00
Energy Used (MWh)	NA

TOTAL FROM EARTHWORK EQUIPMENT OPERATION	
CO_2 e Emission (metric ton)	3.9E+00
Onsite NOx Emission (metric ton)	2.5E-02
Onsite SOx Emission (metric ton)	5.6E-03
Onsite PM_{10} Emission (metric ton)	2.2E-03
Offsite NOx Emission (metric ton)	2.6E-03
Offsite SOx Emission (metric ton)	1.4E-03
Offsite PM_{10} Emission (metric ton)	3.9E-04
Accident Risk - Fatality	1.1E-05
Accident Risk - Injury	2.8E-03
Water Used (gallons)	NA
Energy Used (MMBTU)	5.7E+01
Energy Used (MWh)	NA

This worksheet allows the user to calculate the environmental footprint of residual handling

The different columns allow the user to calculate and compare the emissions for different types of residue such as soil, water, and materials

Yellow cells	value chosen from drop down menu on input sheet
White cells	value entered on input sheet
Orange cells	provide the output of the tool
Blue Cells	tool calculations and automatic lookups

RESIDUE DISPOSAL/RECYCLING

	Soil Residue	Residual Water	Material Residue	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Weight of the waste transported to landfill or recycling (tons)	30.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel used	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Total number of trips	236.0	212.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Number of miles per trip	36.5	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total distance traveled (miles)	8614	7038.4	0	0	0	0	0	0	0	0	0	0
Fuel efficiency by weight of load (mpg)	4.3	4.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
Total fuel used (gal)	2013.2	1686.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BTU per gallon fuel used	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015	139,015
CO_2 emission factor (g/gal)	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03	9.84E+03
N_2O emission factor (g/gal)	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01	2.09E-01
CH_4 emission factor (g/gal)	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01	1.18E+01
NOx emission factor (g/gal)	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00
SOx emission factor (g/gal)	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01	1.33E-01
PM_{10} emission factor (g/gal)	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01	2.65E-01
ENERGY OUTPUT												
Energy used (BTU)	2.8E+08	2.3E+08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	2.0E+01	1.7E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N_2O emission (metric ton CO_2 e)	1.3E-01	1.1E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CH_4 emissions (metric ton CO_2 e)	5.0E-01	4.2E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	6.6E-03	5.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	2.7E-04	2.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	5.3E-04	4.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ACCIDENT RISK												
Fatality risk	6.7E-05	5.5E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	5.4E-03	4.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM RESIDUAL HANDLING	
CO_2 e Emission (metric ton)	3.8E+01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	1.2E-02
Offsite SOx Emission (metric ton)	4.9E-04
Offsite PM_{10} Emission (metric ton)	9.8E-04
Accident Risk - Fatality	1.2E-04
Accident Risk - Injury	9.8E-03
Water Used (gallons)	NA
Energy Used (MMBTU)	5.1E+02
Energy Used (MWh)	NA

TOTAL FROM RESIDUAL HANDLING	
CO_2 e Emission (metric ton)	3.8E+01
Onsite NOx Emission (metric ton)	0.0E+00
Onsite SOx Emission (metric ton)	0.0E+00
Onsite PM_{10} Emission (metric ton)	0.0E+00
Offsite NOx Emission (metric ton)	1.2E-02
Offsite SOx Emission (metric ton)	4.9E-04
Offsite PM_{10} Emission (metric ton)	9.8E-04
Accident Risk - Fatality	1.2E-04
Accident Risk - Injury	9.8E-03
Water Used (gallons)	NA
Energy Used (MMBTU)	5.1E+02
Energy Used (MWh)	NA

OPERATOR LABOR

	Occupation 1	Occupation 2	Occupation 3	Occupation 4	Occupation 5	Occupation 6	Occupation 7	Occupation 8	Occupation 9	Occupation 10	Occupation 11	Occupation 12
Occupation	Construction laborers	Other occupation	tific and technical se	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers
Total time worked onsite (hours)	8990.0	200.0	840.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fatality risk per labor hour	9.2E-08	0.0E+00	4.5E-09	9.2E-08	9.2E-08	9.2E-08	9.2E-08	9.2E-08	9.2E-08	9.2E-08	9.2E-08	9.2E-08
Injury risk per labor hour	2.3E-05	0.0E+00	5.5E-06	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05	2.3E-05
ACCIDENT RISK												
Fatality risk	8.2E-04	0.0E+00	3.8E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Injury risk	2.1E-01	0.0E+00	4.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM OPERATOR LABOR	
CO_2 e Emission (metric ton)	NA
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	NA
Offsite SOx Emission (metric ton)	NA
Offsite PM_{10} Emission (metric ton)	NA
Accident Risk - Fatality	8.3E-04
Accident Risk - Injury	2.1E-01
Water Used (gallons)	NA
Energy Used (MMBTU)	NA
Energy Used (MWh)	NA

LABORATORY ANALYSIS

	Analysis 1	Analysis 2	Analysis 3	Analysis 4	Analysis 5	Analysis 6	Analysis 7	Analysis 8	Analysis 9	Analysis 10	Analysis 11	Analysis 12
Dollars spent on laboratory analysis	33,000.00	4,744.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy used (MMBTU/$)	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03	6.49E-03
CO2 e emission factor (lb/$)	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
NOx emission factor (lb/$)	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03	4.80E-03
SOx emission factor (lb/$)	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03	3.60E-03
PM10 emission factor (lb/$)	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04
ENERGY OUTPUT												
Energy used (BTU)	2.1E+08	3.1E+07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CO_2 OUTPUT												
CO_2 emission (metric ton)	1.5E+01	2.2E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx, SOx and PM_{10} OUTPUT												
NOx emission (metric ton)	7.2E-02	1.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SOx emission (metric ton)	5.4E-02	7.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PM_{10} emission (metric ton)	6.0E-03	8.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

TOTAL FROM LABORATORY ANALYSIS	
CO_2 e Emission (metric ton)	1.7E+01
Onsite NOx Emission (metric ton)	NA
Onsite SOx Emission (metric ton)	NA
Onsite PM_{10} Emission (metric ton)	NA
Offsite NOx Emission (metric ton)	8.2E-02
Offsite SOx Emission (metric ton)	6.2E-02
Offsite PM_{10} Emission (metric ton)	6.8E-03
Accident Risk - Fatality	NA
Accident Risk - Injury	NA
Water Used (gallons)	NA
Energy Used (MMBTU)	2.4E+02
Energy Used (MWh)	NA

TOTAL FROM OTHER EQUIPMENT OPERATIONS	
CO_2 e Emission (metric ton)	1.7E+01
Onsite NOx Emission (metric ton)	0.0E+00
Onsite SOx Emission (metric ton)	0.0E+00
Onsite PM_{10} Emission (metric ton)	0.0E+00
Offsite NOx Emission (metric ton)	8.2E-02
Offsite SOx Emission (metric ton)	6.2E-02
Offsite PM_{10} Emission (metric ton)	6.8E-03
Accident Risk - Fatality	8.3E-04
Accident Risk - Injury	2.1E-01
Water Used (gallons)	0.0E+00
Energy Used (MMBTU)	2.4E+02
Energy Used (MWh)	NA

Climate Screening Checklist

Background Information

- Project Manager: Javier Perez-Maldonado, DEC Project Manager
- Site Name: 43-25 52nd Street
- Site Number: C241269
- Site Location: 43-25 52nd Street, Woodside, NY 11377
- Site Elevation (average above sea level): Approximately 89 ft above sea level (from google earth).
- ClimAID Region (Responding Climate Change in New York State (ClimAID) - NYSERDA): Region 4
- Remedial Stage/site classification: Site Classification - A (Active)
- Contamination - Media Impacted/ Contaminants of Concern:
  Contaminants of concern were PFAS in surface soil, CVOCs, SVOCs, pesticides and metals in surface as well as subsurface soil. Soil at the Site is indictively impacted by Fill material. VOCs (chloroform), SVOCs (PAHs), metals (chromium, lead,manganese, nickel,sodium and selenium) and PFAS in Groundwater; CVOCs (PCE, TCE, and cis-1,2-DCE) contaminants in soil vapor. The elevated CVOC levels in soil vapor are consistent with the soil contamination.
- Proposed/Current Remedy:
  The Site has achieved a Track 2 restricted use restricted-residential soil cleanup (SCO). The remedial actions completed were excavation of soil/fill material 12-15 ft bgs. Collection and analysis of end point samples, over-excavation of one hotspot area up to 17 ft bgs, installation of Sub-Slab Depressurization System (SSDS), Soil Vapor Extraction System (SVE) and vapor barrier. Implementation of Institution control such as recording of an Environmental Easement and Publication of Site Management Plan.
- What is the predicted timeframe of the remedy? Will components of the remedy still be in place in 10+ years?
  The predicted timeframe for the remedy is approximately 5 - 10 years.
- Is the site in proximity to any sensitive receptors? (e.g. wetlands, waterbodies, residential properties, hospitals, schools, drinking water supplies, etc.)
  The Site is bounded by Skillman Avenue to the north, queens Blvd to the the south, 52nd Street to the east and residential properties to the west. The site is in proximity to surrounding residential properties which includes a daycare centre.

Is the site in a disadvantaged community (DAC) or potential environmental justice area (PEJA) (Use DECinfolocator: DECinfo Locator (ny.gov))?

☒ **Yes** ☐ **No**

If the site is in a DAC or PEJA, will climate impacts be magnified? If yes, list how and why.

☐ **Yes** ☒ **No**

Should thresholds of concern be lowered to account for magnification of impacts? If yes, indicate how lower thresholds will be used in the screening.

N/A ☐ **Yes** ☐ **No**

Climate Screening Table*

Potential Climate Hazards	**Relevant to the Site Location** (Y/N/NA)[1]	**Projected Change** (Reference data source/Model)[3]	**Potential to Impact Remedy** (Y/N)	**Is remedy/site already resilient?** (Y/N)[4]
Precipitation	N	N (RAPT ArcGIS)	N/A	N/A
Temperature[2] (Extreme Heat or Cold Weather Impacts)	Y	3-7 day outlook; Frost/Freeze (RAPT ArcGIS)	N	N/A
Sea Level Rise	N	N (NOAA sea level riser tool)	N/A	N/A
Flooding	N	N (RAPT ArcGIS)	N/A	N/A
Storm Surge	N	N (NOAA sea level riser tool)	N	N/A
Wildfire	N	N (RAPT ArcGIS)	N/A	N/A
Drought	N	N (RAPT ArcGIS)	N/A	N/A
Storm Severity	N	N (RAPT ArcGIS)	N/A	N/A
Landslides	N	N/A	N/A	N/A
Other Hazards:	Seismic Activity (Y)	N (RAPT ArcGIS)	Y	Y

* Links to potential data sources can be found on the following page

[1] If the first column is N --> The rest of the columns will be N/A, the hazard is not applicable to the site.

[2] Extreme Heat: periods of three or more days above 90°F- Extreme Cold: Individual days with minimum temperatures at or below 0 degrees F (NYSERDA ClimAID report)

[3] List the projected change in specific terms or units e.g. inches of rain fall, feet of sea level rise, etc.

[4] If final column is Y, provide reasoning, if the final column is N --> Climate Vulnerability Assessment (CVA) required.

Required Next Steps (If no further action is required, provide justification):

Temperature Hazards for building residents are not anticipated because the building is constructed with a central HVAC system.

The Site is prone to modified Mercalli Intensity value of VIII. The intensity value deals with the manner in which the earthquake is felt by people. The higher numbers in the scale is observed based on structural damage. The seismic activity is not anticipated to affect the remedy as the design data includes earthquake design analysis in the approved structural plan.