

March 18, 2021

Mr. Mike Hozella
Core5 Industrial Partners
1250 N. Mountain Road
Harrisburg, PA 17112

RE: Limited Phase II Environmental Site Assessment
7503 Kernsville Road, Lowhill Township
Lehigh County, Pennsylvania
RETTEW Project No. 115732008

Dear Mr. Hozella:

RETTEW Associates, Inc., has prepared this Limited Phase II Environmental Site Assessment (ESA) letter report for the 7503 Kernsville Road property located in Lowhill Township, Lehigh County, Pennsylvania (the "Site" – see **Figure 1**). The Site is currently occupied by a residential house, an orchard outbuilding, agricultural fields, and a pond. This report was prepared for Core5 Industrial Partners to investigate one identified Recognized Environmental Condition (REC) identified in the RETTEW's Phase I ESA report dated February 10, 2021; The one REC was the historical use of the Site for apple orchards, as orchard operations are often associated with the accumulation of pesticides, herbicides, or heavy metals in shallow soils and/or groundwater from repetitive applications. To investigate this REC, RETTEW completed a Limited Phase II ESA including shallow soil sampling and water sampling from an existing Site well.

INVESTIGATION METHODS

Shallow soil samples S-1 through S-4 were collected from one to two feet below ground surface (bgs) at the Site (see **Figure 2**) utilizing hand tool methodologies on February 24, 2021. In addition, a water sample was collected from the existing water supply well via a spigot in the basement prior to treatment or conditioning. The spigot was purged for approximately 10 minutes prior to sample collection.

The soil samples (S-1 through S-4) and the water supply well sample (PW-1) were collected into laboratory-provided bottleware in the field and placed in an iced cooler for shipment to the laboratory. ALS Environmental of Middletown, Pennsylvania, a Pennsylvania certified laboratory, analyzed the soil samples for priority pollutant list pesticides, herbicides, and Resource Conservation & Recovery Act (RCRA) list metals.

SOIL SAMPLE ANALYTICAL RESULTS

The laboratory analytical report is provided in **Attachment A**. Soil sample analytical results were compared to the Pennsylvania Department of Environmental Protection (PA DEP) Act 2 Statewide Health Standard Medium Specific Concentrations (SHS MSCs) as shown in **Table 1** in **Attachment B**. Only detected analytes are shown in **Table 1**; additional parameters were analyzed that were not detected (see laboratory analytical report in **Attachment A** for the full list of analyzed parameters). The land use



at the Site consists of agricultural fields and is proposed for warehousing; therefore, the Non-Residential SHS MSCs were utilized to evaluate soil sample analytical results. Pesticides alpha- and gamma-chlordane were detected at concentrations of 2.4 and 4.1 micrograms per kilogram (ug/Kg) respectively in soil sample S-3 from approximately one to two feet bgs; however, these results were below the applicable SHS MSC of 49,000 ug/Kg for both constituents. Pesticides 4,4'-DDD and heptachlor epoxide were detected in only samples S-3 and S-4 at concentrations ranging from 3.4 to 3.8 ug/Kg and 59.6 to 3.0 ug/Kg, which were below the applicable SHS MSCs of 150,000 ug/Kg and 1,100 ug/Kg, respectively. Finally, pesticides 4,4'-DDE, 4,4'-DDT, and dieldrin in all four soil samples were detected at concentrations ranging from 14.7 ug/Kg to 267 ug/Kg, 5.4 ug/Kg to 74.9 ug/Kg, and 2.5 ug/Kg to 73.4 ug/Kg which were below the applicable SHS MSCs of 220,000 ug/Kg, 270,000 ug/Kg, and 580 ug/Kg, respectively. No herbicides were detected above laboratory detection limits in the four soil samples collected.

Similarly, metals including arsenic, barium, chromium, and lead were detected in all four soils samples at concentrations ranging from 9.4 mg/Kg to 10.7 mg/Kg, 60.7 mg/Kg to 90.9 mg/kg, 16.3 mg/Kg to 23.2 mg/Kg, and 29.1 mg/Kg to 34.9 mg/Kg, which were all below their applicable SHS MSCs of 29 mg/Kg, 8,200 mg/Kg, 190 mg/Kg, and 450 mg/Kg, respectively.

The laboratory analytical results indicated that the onsite soils were not impacted by pesticides and metals at levels exceeding non-residential SHS MSCs (see **Table 1** in **Attachment B**).

WATER WELL ANALYTICAL RESULTS

The laboratory analytical report is provided in **Attachment A**. Water well analytical results were compared to the PA DEP Act 2 Non-Residential SHS MSCs and Environmental Protection Agency (EPA) Drinking Water Maximum Contaminant Levels (MCLs) as shown in **Table 2** in **Attachment B**. Only detected analytes are shown in **Table 2**.

No pesticides or herbicides were detected above laboratory detection limits in water well sample PW-1. Chromium and lead were the only metals detected in the water well sample PW-1 at concentrations of 24 and 9.4 micrograms per liter (ug/L), respectively. Chromium is below its applicable SHS MSC of 100 ug/L for groundwater. Lead was detected at 9.4 ug/L, which is above its SHS MSC of 5.0 ug/L for groundwater; however, it is below the lead Drinking Water Maximum Contaminant Level (MCL) of 15 ug/L.

CONCLUSIONS

The results of this limited Phase II ESA are summarized below.

1. Soil analytical results show detected pesticide and metal constituents, which is consistent with the historical orchard use. There were no exceedances of applicable soil PA DEP Non-Residential SHS MSCs for the soil samples analyzed, including the MSCs for the detected pesticide and metal constituents.
2. Groundwater analytical results from the existing Site supply well show there were no exceedances of applicable groundwater PA DEP Non-Residential SHS MSCs with the exception of lead detected at 9.4 ug/L, which is above its SHS MSC of 5.0 ug/L for groundwater; however, this is below the EPA Drinking Water MCL of 15 ug/L. The lead detection is likely related to the household plumbing, opposed to a groundwater

condition, especially given the age of the house and typical lead content in older plumbing systems. This is further supported by the lack of lead exceeding its Soil to Groundwater MSC in the soil samples analyzed, which would be indicative of a soil contaminant source.

RETTEW appreciates the opportunity to provide environmental consulting services to Core5 Industrial Partners. If you have any questions, or if you would like to discuss the findings of the survey in more detail, please do not hesitate to contact us at (800) 738-8395.

Sincerely,



Scott M. Houser
Project Manager

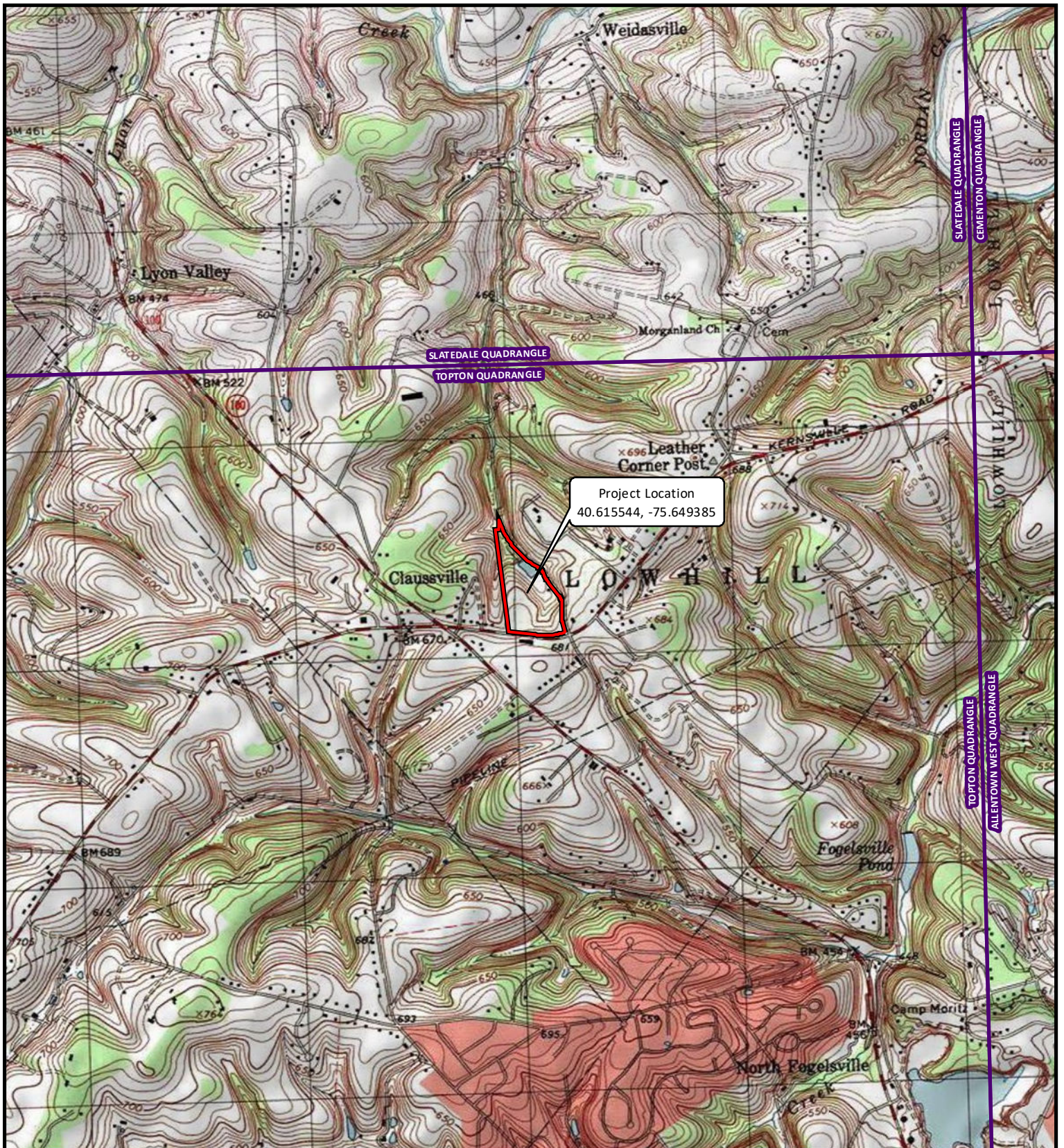


Brendan O'Donnell, PG
Senior Geologist

Enclosures

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FIGURES



Project Location
40.615544, -75.649385

 Project Boundary

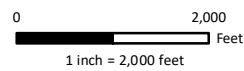
Core5 Industrial Partners, LLC

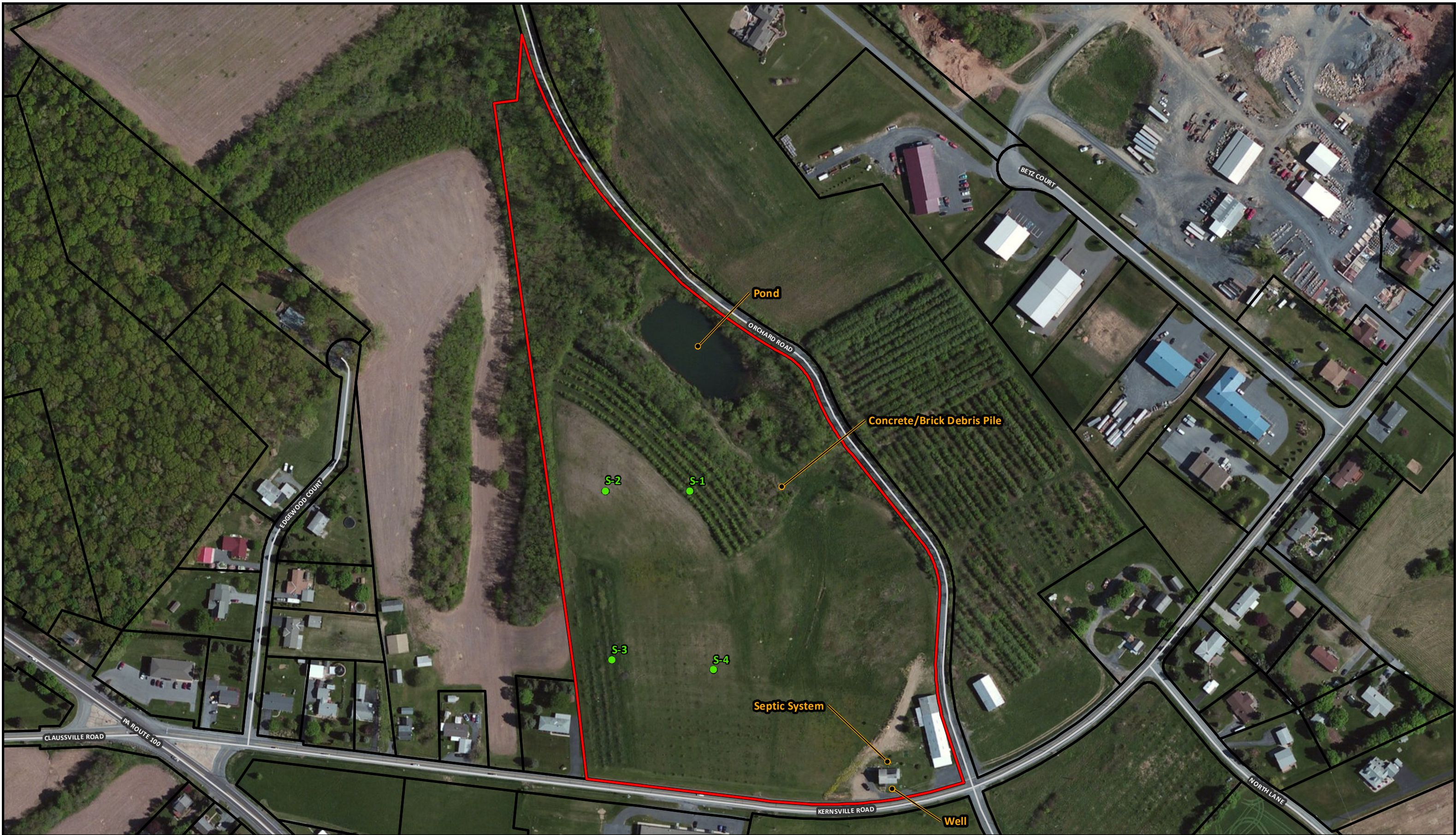
7503 Kernsville Road

Figure 1 - Project Location Map

Lowhill Township, Lehigh County, PA

Project No. 115732008





Core5 Industrial Partners, LLC

7503 Kernsville Road

Figure 2 - Soil Sample Location Map

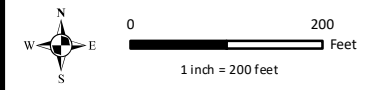
Lowhill Township, Lehigh County, PA

Project No. 115732008

3/8/2021

- Soil Sample Location
- Road Centerline

- Project Boundary
- Parcel Boundary



Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



ATTACHMENT A
LABORATORY ANALYTICAL RESULTS

March 16, 2021

Mr. Scott Houser
Rettew - Mechanicsburg
5031 Richard Lane
Suite 111
Mechanicsburg, PA 17055

Certificate of Analysis

Revised Report - 3/16/2021 4:15:42 PM - See workorder comment section for explanation

Project Name:	2021-KERNSVILLE ROAD	Workorder:	3160355
Purchase Order:		Workorder ID:	7503 Kernsville Rd

Dear Mr. Houser:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, February 24, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Kelly Kramer

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Sarah S Leung
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3160355 7503 Kernsville Rd

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3160355001	S-1	Solid	2/24/2021 10:50	2/24/2021 16:15	Collected by Client
3160355002	S-2	Solid	2/24/2021 11:25	2/24/2021 16:15	Collected by Client
3160355003	S-3	Solid	2/24/2021 12:30	2/24/2021 16:15	Collected by Client
3160355004	S-4	Solid	2/24/2021 12:45	2/24/2021 16:15	Collected by Client
3160355005	PW-1	Ground Water	2/24/2021 14:00	2/24/2021 16:15	Collected by Client

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SAMPLE SUMMARY

Workorder: 3160355 7503 Kernsville Rd

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 3160355 7503 Kernsville Rd

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

This certificate of analysis was modified to correct the sample receipt date. SSL 3/16/21

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355001**

Date Collected: 2/24/2021 10:50

Matrix: Solid

Sample ID: **S-1**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PESTICIDES										
Aldrin	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
beta-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
delta-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
gamma-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
alpha-Chlordane	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
gamma-Chlordane	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
4,4'-DDD	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
4,4'-DDE	14.7	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
4,4'-DDT	13.8	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Dieldrin	2.8	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endosulfan I	ND	C,2	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endosulfan II	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endosulfan Sulfate	ND	C,3	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endrin	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endrin Aldehyde	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Endrin Ketone	ND	C,4	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Heptachlor	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Heptachlor Epoxide	ND	C,1	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Methoxychlor	ND	C	ug/kg	3.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Toxaphene	ND	C	ug/kg	41.3	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	66.3	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Decachlorobiphenyl. (S)	76.3	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Tetrachloro-m-xylene (S)	52.5	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
Tetrachloro-m-xylene. (S)	54.3	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:40	KJH	A
HERBICIDES										
2,4-D	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
2,4-DB	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
Dalapon	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
Dicamba	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
Dichloroprop	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
Dinoseb	ND	C	ug/kg	205	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
Pentachlorophenol	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
2,4,5-T	ND	C	ug/kg	205	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
2,4,5-TP	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355001**

Date Collected: 2/24/2021 10:50

Matrix: Solid

Sample ID: **S-1**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>										
2,4-Dichlorophenylacetic acid (S)	45.7	C	%	36 - 113	SW846 8151A	3/4/21 08:45	CXK	3/5/21 18:34	JXS	A
WET CHEMISTRY										
Moisture	19.1	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
Total Solids	80.9	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
METALS										
Arsenic, Total	9.4	C	mg/kg	1.7	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Barium, Total	79.9	C	mg/kg	2.9	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Cadmium, Total	ND	C	mg/kg	0.57	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Chromium, Total	20.8	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Lead, Total	29.1	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Mercury, Total	ND	C	mg/kg	0.060	SW846 7471B	3/4/21 07:30	EAD	3/5/21 06:08	EAD	A1
Selenium, Total	ND	C	mg/kg	2.9	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2
Silver, Total	ND	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:44	MSA	A2



Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355002**

Date Collected: 2/24/2021 11:25

Matrix: Solid

Sample ID: **S-2**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PESTICIDES										
Aldrin	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
beta-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
delta-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
gamma-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
alpha-Chlordane	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
gamma-Chlordane	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
4,4'-DDD	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
4,4'-DDE	16.8	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
4,4'-DDT	5.4	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Dieldrin	2.5	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endosulfan I	ND	C,2	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endosulfan II	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endosulfan Sulfate	ND	C,3	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endrin	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endrin Aldehyde	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Endrin Ketone	ND	C,4	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Heptachlor	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Heptachlor Epoxide	ND	C,1	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Methoxychlor	ND	C	ug/kg	3.7	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Toxaphene	ND	C	ug/kg	39.4	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	85.5	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Decachlorobiphenyl. (S)	96.6	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Tetrachloro-m-xylene (S)	60.6	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
Tetrachloro-m-xylene. (S)	62.8	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 18:51	KJH	A
HERBICIDES										
2,4-D	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
2,4-DB	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
Dalapon	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
Dicamba	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
Dichloroprop	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
Dinoseb	ND	C	ug/kg	199	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
Pentachlorophenol	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
2,4,5-T	ND	C	ug/kg	199	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
2,4,5-TP	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355002**

Date Collected: 2/24/2021 11:25

Matrix: Solid

Sample ID: **S-2**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	44.8	C	%	36 - 113	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:00	JXS	A
WET CHEMISTRY										
Moisture	15.1	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
Total Solids	84.9	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
METALS										
Arsenic, Total	10.6	C	mg/kg	1.7	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Barium, Total	74.3	C	mg/kg	2.8	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Cadmium, Total	ND	C	mg/kg	0.55	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Chromium, Total	23.2	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Lead, Total	31.4	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Mercury, Total	ND	C	mg/kg	0.050	SW846 7471B	3/4/21 07:30	EAD	3/5/21 06:12	EAD	A1
Selenium, Total	ND	C	mg/kg	2.8	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2
Silver, Total	ND	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:47	MSA	A2



Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355003**

Date Collected: 2/24/2021 12:30

Matrix: Solid

Sample ID: **S-3**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PESTICIDES										
Aldrin	ND	C,1	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
beta-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
delta-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
gamma-BHC	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
alpha-Chlordane	2.4	C,6	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
gamma-Chlordane	4.1	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
4,4'-DDD	3.4	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
4,4'-DDE	193	C	ug/kg	9.7	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:17	KJH	A
4,4'-DDT	69.9	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Dieldrin	65.8	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endosulfan I	ND	C,3	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endosulfan II	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endosulfan Sulfate	ND	C,4	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endrin	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endrin Aldehyde	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Endrin Ketone	ND	C,5	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Heptachlor	ND	C	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Heptachlor Epoxide	59.6	C,2	ug/kg	1.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Methoxychlor	ND	C	ug/kg	3.8	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Toxaphene	ND	C	ug/kg	40.1	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	77.7	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Decachlorobiphenyl (S)	66.2	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:17	KJH	A
Decachlorobiphenyl. (S)	88.5	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Decachlorobiphenyl. (S)	71.4	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:17	KJH	A
Tetrachloro-m-xylene (S)	58.2	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Tetrachloro-m-xylene (S)	58.2	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:17	KJH	A
Tetrachloro-m-xylene. (S)	61.2	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:12	KJH	A
Tetrachloro-m-xylene. (S)	63.3	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:17	KJH	A
HERBICIDES										
2,4-D	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
2,4-DB	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
Dalapon	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
Dicamba	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
Dichloroprop	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355003**

Date Collected: 2/24/2021 12:30

Matrix: Solid

Sample ID: **S-3**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Dinoseb	ND	C	ug/kg	199	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
Pentachlorophenol	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
2,4,5-T	ND	C	ug/kg	199	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
2,4,5-TP	ND	C	ug/kg	117	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	50.4	C	%	36 - 113	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:26	JXS	A
WET CHEMISTRY										
Moisture	16.6	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
Total Solids	83.4	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
METALS										
Arsenic, Total	9.4	C	mg/kg	1.7	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Barium, Total	60.7	C	mg/kg	2.8	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Cadmium, Total	ND	C	mg/kg	0.56	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Chromium, Total	16.3	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Lead, Total	32.8	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Mercury, Total	ND	C	mg/kg	0.050	SW846 7471B	3/4/21 07:30	EAD	3/5/21 06:13	EAD	A1
Selenium, Total	ND	C	mg/kg	2.8	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2
Silver, Total	ND	C	mg/kg	1.1	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:50	MSA	A2



Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355004**

Date Collected: 2/24/2021 12:45

Matrix: Solid

Sample ID: **S-4**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PESTICIDES										
Aldrin	ND	C,1	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
beta-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
delta-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
gamma-BHC	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
alpha-Chlordane	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
gamma-Chlordane	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
4,4'-DDD	3.8	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
4,4'-DDE	267	C	ug/kg	10	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:28	KJH	A
4,4'-DDT	74.9	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Dieldrin	73.4	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endosulfan I	ND	C,3	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endosulfan II	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endosulfan Sulfate	ND	C,4	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endrin	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endrin Aldehyde	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Endrin Ketone	ND	C,5	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
alpha-HCH (alpha-BHC)	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Heptachlor	ND	C	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Heptachlor Epoxide	3.0	C,2	ug/kg	2.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Methoxychlor	ND	C	ug/kg	3.9	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Toxaphene	ND	C	ug/kg	41.0	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	78.2	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Decachlorobiphenyl (S)	69.8	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:28	KJH	A
Decachlorobiphenyl. (S)	91.9	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Decachlorobiphenyl. (S)	73.8	C	%	30 - 135	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:28	KJH	A
Tetrachloro-m-xylene (S)	58.5	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:28	KJH	A
Tetrachloro-m-xylene (S)	59	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
Tetrachloro-m-xylene. (S)	63.6	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/9/21 12:28	KJH	A
Tetrachloro-m-xylene. (S)	62.6	C	%	30 - 111	SW846 8081B	3/7/21 15:20	J1H	3/8/21 19:22	KJH	A
HERBICIDES										
2,4-D	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
2,4-DB	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
Dalapon	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
Dicamba	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
Dichloroprop	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355004**

Date Collected: 2/24/2021 12:45

Matrix: Solid

Sample ID: **S-4**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Dinoseb	ND	C	ug/kg	207	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
Pentachlorophenol	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
2,4,5-T	ND	C	ug/kg	207	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
2,4,5-TP	ND	C	ug/kg	121	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	45.2	C	%	36 - 113	SW846 8151A	3/4/21 08:45	CXK	3/5/21 19:51	JXS	A
WET CHEMISTRY										
Moisture	18.0	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
Total Solids	82.0	C	%	0.1	S2540G-11			3/1/21 14:51	II	A
METALS										
Arsenic, Total	10.7	C	mg/kg	1.8	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Barium, Total	90.9	C	mg/kg	3.0	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Cadmium, Total	ND	C	mg/kg	0.60	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Chromium, Total	22.7	C	mg/kg	1.2	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Lead, Total	34.9	C	mg/kg	1.2	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Mercury, Total	ND	C	mg/kg	0.060	SW846 7471B	3/4/21 07:30	EAD	3/5/21 06:14	EAD	A1
Selenium, Total	ND	C	mg/kg	3.0	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2
Silver, Total	ND	C	mg/kg	1.2	SW846 6020A	3/3/21 23:15	SXC	3/6/21 07:54	MSA	A2



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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355005**

Date Collected: 2/24/2021 14:00

Matrix: Ground Water

Sample ID: **PW-1**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PESTICIDES										
Aldrin	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
beta-BHC	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
delta-BHC	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
gamma-BHC	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
alpha-Chlordane	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
gamma-Chlordane	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
4,4'-DDD	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
4,4'-DDE	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
4,4'-DDT	ND	C,2	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Dieldrin	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endosulfan I	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endosulfan II	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endosulfan Sulfate	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endrin	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endrin Aldehyde	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Endrin Ketone	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
alpha-HCH (alpha-BHC)	ND	C,1	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Heptachlor	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Heptachlor Epoxide	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Methoxychlor	ND	C	ug/L	0.020	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Toxaphene	ND	C	ug/L	1.0	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyl (S)	93.1	C	%	30 - 140	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Decachlorobiphenyl. (S)	100	C	%	30 - 140	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Tetrachloro-m-xylene (S)	142	C,3	%	30 - 123	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
Tetrachloro-m-xylene. (S)	115	C	%	30 - 123	SW846 8081B	3/2/21 07:00	LEH	3/3/21 12:30	KJH	
HERBICIDES										
2,4-D	ND	C	ug/L	0.97	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
2,4-DB	ND	C	ug/L	0.97	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
Dalapon	ND	C	ug/L	0.97	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
Dicamba	ND	C	ug/L	0.19	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
Dichloroprop	ND	C	ug/L	0.19	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
Dinoseb	ND	C	ug/L	0.97	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
MCPA	ND	C	ug/L	96.6	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
MCPD	ND	C	ug/L	96.6	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
Pentachlorophenol	ND	C	ug/L	0.19	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

Lab ID: **3160355005**

Date Collected: 2/24/2021 14:00

Matrix: Ground Water

Sample ID: **PW-1**

Date Received: 2/24/2021 16:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,5-T	ND	C	ug/L	0.19	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
2,4,5-TP	ND	C	ug/L	0.19	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	73	C	%	14 - 172	SW846 8151A	3/2/21 05:55	CAC	3/3/21 13:04	JXS	C
METALS										
Arsenic, Total	ND	C	mg/L	0.0033	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Barium, Total	ND	C	mg/L	0.0056	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Cadmium, Total	ND	C	mg/L	0.0011	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Chromium, Total	0.024	C	mg/L	0.0022	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Lead, Total	0.0094	C	mg/L	0.0022	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Mercury, Total	ND	C	mg/L	0.00050	SW846 7470A	3/8/21 06:57	EAD	3/8/21 12:08	EAD	E
Selenium, Total	ND	C	mg/L	0.0056	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1
Silver, Total	ND	C	mg/L	0.0022	SW846 6020A	3/2/21 15:45	SXC	3/6/21 14:51	MSA	E1



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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3160355001	1	S-1	SW846 8081B	Heptachlor Epoxide
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Heptachlor Epoxide. The % Recovery was reported as 103 and the control limits were 62 to 99.				
3160355001	2	S-1	SW846 8081B	Endosulfan I
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan I. The % Recovery was reported as 98.9 and the control limits were 57 to 98.				
3160355001	3	S-1	SW846 8081B	Endosulfan Sulfate
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan Sulfate. The % Recovery was reported as 105 and the control limits were 27 to 96.				
3160355001	4	S-1	SW846 8081B	Endrin Ketone
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endrin Ketone. The % Recovery was reported as 107 and the control limits were 32 to 103.				
3160355002	1	S-2	SW846 8081B	Heptachlor Epoxide
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Heptachlor Epoxide. The % Recovery was reported as 103 and the control limits were 62 to 99.				
3160355002	2	S-2	SW846 8081B	Endosulfan I
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan I. The % Recovery was reported as 98.9 and the control limits were 57 to 98.				
3160355002	3	S-2	SW846 8081B	Endosulfan Sulfate
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan Sulfate. The % Recovery was reported as 105 and the control limits were 27 to 96.				
3160355002	4	S-2	SW846 8081B	Endrin Ketone
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endrin Ketone. The % Recovery was reported as 107 and the control limits were 32 to 103.				
3160355003	1	S-3	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				
3160355003	2	S-3	SW846 8081B	Heptachlor Epoxide
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Heptachlor Epoxide. The % Recovery was reported as 103 and the control limits were 62 to 99.				
3160355003	3	S-3	SW846 8081B	Endosulfan I
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan I. The % Recovery was reported as 98.9 and the control limits were 57 to 98.				
3160355003	4	S-3	SW846 8081B	Endosulfan Sulfate
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan Sulfate. The % Recovery was reported as 105 and the control limits were 27 to 96.				
3160355003	5	S-3	SW846 8081B	Endrin Ketone
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endrin Ketone. The % Recovery was reported as 107 and the control limits were 32 to 103.				
3160355003	6	S-3	SW846 8081B	alpha-Chlordane
The detection of this compound was confirmed on an alternate column. Precision between the two results exceeded in house control limits (<40%RPD).				
3160355004	1	S-4	SW846 8081B	Aldrin
This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.				

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ANALYTICAL RESULTS

Workorder: 3160355 7503 Kernsville Rd

3160355004	2	S-4	SW846 8081B	Heptachlor Epoxide
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Heptachlor Epoxide. The % Recovery was reported as 103 and the control limits were 62 to 99.				
3160355004	3	S-4	SW846 8081B	Endosulfan I
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan I. The % Recovery was reported as 98.9 and the control limits were 57 to 98.				
3160355004	4	S-4	SW846 8081B	Endosulfan Sulfate
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endosulfan Sulfate. The % Recovery was reported as 105 and the control limits were 27 to 96.				
3160355004	5	S-4	SW846 8081B	Endrin Ketone
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte Endrin Ketone. The % Recovery was reported as 107 and the control limits were 32 to 103.				
3160355005	1	PW-1	SW846 8081B	alpha-HCH (alpha-BHC)
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 21% in the bracketing CCV.				
3160355005	2	PW-1	SW846 8081B	4,4'-DDT
The QC sample type LCS for method SW846 8081B was outside the control limits for the analyte 4,4'-DDT. The % Recovery was reported as 152 and the control limits were 58 to 140.				
3160355005	3	PW-1	SW846 8081B	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method SW846 8081B was outside of control limits. The % Recovery was reported as 142 and the control limits were 30 to 123. This result was reported at a dilution of 1.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3160355 7503 Kernsville Rd

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3160355001	S-1	S2540G-11		
3160355001	S-1	SW846 6020A	SW846 3051	
3160355001	S-1	SW846 7471B	SW846 7471B	
3160355001	S-1	SW846 8081B	SW846 3546A	
3160355001	S-1	SW846 8151A	SW846 8151A	
3160355002	S-2	S2540G-11		
3160355002	S-2	SW846 6020A	SW846 3051	
3160355002	S-2	SW846 7471B	SW846 7471B	
3160355002	S-2	SW846 8081B	SW846 3546A	
3160355002	S-2	SW846 8151A	SW846 8151A	
3160355003	S-3	S2540G-11		
3160355003	S-3	SW846 6020A	SW846 3051	
3160355003	S-3	SW846 7471B	SW846 7471B	
3160355003	S-3	SW846 8081B	SW846 3546A	
3160355003	S-3	SW846 8151A	SW846 8151A	
3160355004	S-4	S2540G-11		
3160355004	S-4	SW846 6020A	SW846 3051	
3160355004	S-4	SW846 7471B	SW846 7471B	
3160355004	S-4	SW846 8081B	SW846 3546A	
3160355004	S-4	SW846 8151A	SW846 8151A	
3160355005	PW-1	SW846 6020A	SW846 3015	
3160355005	PW-1	SW846 7470A	SW846 7470A	
3160355005	PW-1	SW846 8081B	SW846 3511	
3160355005	PW-1	SW846 8151A	SW846 8151A	

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301 Fulling Mill Road
 Middletown, PA 17057
 P: 717-944-5541
 F: 717-944-1430

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.**

Client Name: RETTEW
 Address: 5031 Richard Lane
Mech PA 17055
 Contact: Scott Houser
 Phone#: 717-418-7558
 Project Name#: 7503 Kernsville Road
 Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges. 7 days
 Date Required: 3-5-21 Approved?
 Email? y shouser@rettew.com
 Fax? Y No: NA

Container Type _____
 Container Size _____
 Pesticide _____
 W.O. Temp: 40° Therm ID: 401
 Courier/Tracking #: _____
 Purchase Order #: _____
 Project Comments:

ANALYSES/METHOD REQUESTED

ALS Field Services: Pickup Labor
 Composite Sampling Rental Equipment
 Other: _____

Sample No.	Sample Description/Location (as it will appear on the lab report)	Date Collected		Time hh:mm	Matrix	Enter Number of Containers Per Sample or Field Results Below.				Sample/COC Comments	
		mm/dd/yy	mm/dd/yy			P	G	L	D		
1	S-1	2-24-21	"	1050	G	S	0	X	X	1	Priority Pollutant HERBICIDES
2	S-2	"	"	1125	G	S	0	X	X	1	Priority Pollutant HERBICIDES
3	S-3	"	"	1230	G	S	0	X	X	1	Priority Pollutant HERBICIDES
4	S-4	"	"	1245	G	S	0	X	X	1	Priority Pollutant HERBICIDES
5	PW-1	"	"	1400	G	DW	X	X	X	2	Priority Pollutant HERBICIDES
6											
7											
8											
9											
10											

SAMPLER COMMENTS: Scott Houser

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>SAH / RETTEW</u>	<u>2-24-21</u>	<u>1615</u>	<u>AMEE</u>	<u>2/24/21</u>	<u>1615</u>

Deliverables: Standard CLP-like USACE/DOD

Special Processing: USACE Navy

State Samples Collected In: NY NJ PA NC

Reportable to PADEP? Yes No

Sample Disposal: Lab Special

PWSID # _____

EDDS: Format Type: _____ other _____

* G=Grab, C=Composite ** Matrix - Air=Air, DW=Drinking Water, GW=Groundwater, OL=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Middletown, PA 17057



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-1
F: (717) 944-1

3160355

Condition of Sample Receipt Form

**Retlaw Associates -
Mechanicsburg**

Client: Retlaw

Initials: TS

Date: 2/25/21

1. Were airbills / tracking numbers present and recorded?..... NONE YES NO
Tracking number: _____
2. Are Custody Seals on shipping containers intact?..... NONE YES NO
3. Are Custody Seals on sample containers intact?..... NONE YES NO
4. Is there a COC (Chain-of-Custody) present?..... YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... YES NO
 - 5a. Does the COC contain sample locations?..... YES NO
 - 5b. Does the COC contain date and time of sample collection for all samples?..... YES NO
 - 5c. Does the COC contain sample collectors name?..... YES NO
 - 5d. Does the COC note the type(s) of preservation for all bottles?..... YES NO
 - 5e. Does the COC note the number of bottles submitted for each sample?..... YES NO
 - 5f. Does the COC note the type of sample, composite or grab?..... YES NO
 - 5g. Does the COC note the matrix of the sample(s)?..... YES NO
6. Are all aqueous samples requiring preservation preserved correctly?¹..... N/A YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... YES NO
8. Are all samples within holding times for the requested analyses?..... YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... YES NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631 E (LL Hg)?..... N/A YES NO
11. Were the samples received on ice?..... YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... YES NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES NO
 - 13a. Are the samples required for SDWA compliance reporting?..... N/A YES NO
 - 13b. Did the client provide a SDWA PWS ID#?..... N/A YES NO
 - 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES NO
 - 13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES NO
 - 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES NO

Cooler #: _____
 Temperature (°C): 4 _____
 Thermometer ID: 407 _____
 Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



**ATTACHMENT B
TABLES**

Table 1
Soil Sample Analytical Data Summary
7503 Kernsville Road, Lowhill Township, Lehigh County, Pennsylvania
RETTEW Project No. 115732008

PESTICIDES & METALS	Act 2 Statewide Health Standard Medium Specific Concentrations (MSCs)							Sample Identifications (Depth in feet below grade below sample I.D.)				
	Soil to Groundwater (Used Aquifers)				Direct Contact							
	TDS ≤ 2500				Residential	Non-Residential		S-1	S-2	S-3	S-4	
	Residential		Non-residential			Surface Soil	Subsurface Soil					
	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	0-15 feet			0-2 feet	2-15 feet	1-2 ft.	1-2 ft.	1-2 ft.
PESTICIDES	-	-	-	-	-	-	-	-	-	-	-	-
ALPHA-CHLORDANE	200	49,000	200	49,000	53,000	260,000	190,000,000	ND	ND	2.4	ND	
GAMMA-CHLORDANE	200	49,000	200	49,000	53,000	260,000	190,000,000	ND	ND	4.1	ND	
4,4'-DDD	300	33,000	1,400	150,000	78,000	380,000	190,000,000	ND	ND	3.4	3.8	
4,4'-DDE	210	46,000	1,000	220,000	55,000	270,000	190,000,000	14.7	16.8	193	267	
4,4'-DDT	210	130,000	550	330,000	55,000	270,000	190,000,000	13.8	5.4	69.9	74.9	
DIELDRIN	4.6	130	21	580	1,200	6,000	190,000,000	2.8	2.5	65.8	73.4	
HEPTACHLOR EPOXIDE	20	1,100	20	1,100	2,000	10,000	190,000,000	ND	ND	59.6	3.0	
METALS	-	-	-	-	-	-	-	-	-	-	-	
TOTAL ARSENIC	1	29	1	29	12	61	190,000	9.4	10.6	9.4	10.7	
TOTAL BARIUM	200	8,200	200	8,200	44,000	190,000	190,000	79.9	74.3	60.7	90.9	
TOTAL CHROMIUM	10	190	10	190	4	220	20,000	20.8	23.2	16.3	22.7	
TOTAL LEAD	0.5	450	0.5	450	500	1,000	190,000	29.1	31.4	32.8	34.9	

Notes:

- 1) Pesticide units are in micrograms per kilogram (ug/kg) and metal units are in milligrams per kilogram (mg/kg).
- 2) Bold & shaded MSCs represent the applicable Act 2 Non-Residential Statewide Health Standard. Applicable standard was selected by first selecting the higher of 100XGW and Generic Value Non-Residential Soil to Groundwater MSC, then taking the lower of that Soil to Groundwater MSC and the Non-Residential Direct Contact MSC.
- 3) Shaded results represent an exceedence of the applicable Act 2 Non-Residential Statewide Health Standard (none identified).
- 4) Soil samples were collected from S-1 through S-4 on February 24, 2021
- 5) ND - Not Detected

Table 2
Water Well Analytical Data Summary
7503 Kernsville Road, Lowhill Township, Lehigh County, Pennsylvania
RETTEW Project No. 115732008

METALS	Act 2 Statewide Health Standard Medium Specific Concentrations (MSCs)				EPA Drinking Water MCL	PW-1
	Used Aquifers		Nonuse Aquifers			
	TDS ≤ 2500		Residential	Non-Residential		
	Residential	Non-residential				
TOTAL CHROMIUM	100	100	100,000	100,000	100	24
TOTAL LEAD	5	5	5,000	5,000	15	9.4*

Notes:

- 1) All units are in micrograms (ug/L).
- 2) Bold & shaded MSCs represent the applicable Act 2 Non-Residential Statewide Health Standard.
- 3) Shaded results represent an exceedence of the applicable Act 2 Non-Residential Statewide Health Standard.
- 4) Sample PW-1 was collected from the onsite water well on February 24, 2021
- 5) MCL - Environmental Protection Agency Maximum Contaminant Level
- 6) * - Exceeds Statewide Health Standard but is less than EPA Drinking Water MCL.