

**Sediment Sampling Summary
for
Coon Creek and
West Fork Kickapoo Watershed in
La Crosse, Monroe, and Vernon Counties, Wisconsin**



Prepared By



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USDA, Natural Resources Conservation Service

January 2022

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LIST OF ACRONYMS AND ABBREVIATIONS

CERCLA	Comprehensive Environmental Response, Compensation, & Liability Act
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichloro-diphenyl-trichloroethane
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
mg/kg	milligrams per kilogram
ng/kg	nanograms per kilogram
NRCS	Natural Resources Conservation Service
PEC	Probable Effect Concentrations
PFAS	per- and polyfluoroalkyl substances
PFBS	perfluorobutane sulfonate
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
PLAN	NRCS Watershed Project Plan
ppt	parts per trillion
RCRA	Resource Conservation and Recovery Act
RSLs	Regional Screening Levels
Sundance-EA JV	Sundance-EA Partners, LLC
THQ	target hazard quotient
TR	target cancer risk
WDNR	Wisconsin Department of Natural Resources

1 Introduction

Sundance-EA Partners, LLC (Sundance-EA JV), is pleased to submit this Sediment Sampling Summary for the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) at Coon Creek and West Fork Kickapoo Watershed, in Lacrosse, Vernon, and Monroe counties, Wisconsin. This additionally scoped Sediment Sampling Summary is provided under the NRCS Watershed Project Plan (PLAN) and Environmental Impact Statement (EIS) Contract Number 12SPEC18D0016 and Task Order 12FPC320F0134.

Coon Creek Watershed has an area of 90,601 acres (141.6 square miles) to the confluence with the Mississippi River. The focused planning area for the PLAN-EIS is 68,762 acres (107.4 square miles) and includes the village of Chaseburg, as shown on Figure 1. West Fork Kickapoo Watershed has an area of 75,387 acres (117.8 square miles) to the confluence with the Kickapoo River (a tributary of the Wisconsin River). The focused planning area for the PLAN-EIS is 63,761 acres (99.6 square miles) and includes the village of Liberty, as shown on Figure 2.

2 Sediment Sampling Activities

The NRCS sediment sampling crew collected co-located sediment samples at four different locations and at two distinct depths (a total of eight sediment samples) behind the dams within Coon Creek and West Fork Kickapoo Watershed between 13 December 2021 to 20 December 2021 to assess the presence/absence and potential stratification of suite of analytes.

At each of the four sediment sampling locations, two co-located sediment samples were collected from 0 to 1 foot and 5 to 6 feet below surface. No quality control samples were collected by the NRCS sediment sampling crew.

All sediment samples were submitted and analyzed by the Suburban Laboratories, Inc., in Mequon, Wisconsin, for the analytical methods summarized in Table 1.

3 Sediment Results

Eight sediment samples were collected between 13 December 2021 to 20 December 2021 behind the dams within Coon Creek and West Fork Kickapoo Watershed. A summary for analytical results for sediment samples are provided in Table 2. The Analytical Laboratory Data report is included in Attachment 1.

3.1 Arsenic, Organochlorine Pesticides, Conventionals

- Arsenic was not detected in any of the sediment samples.
- Organochlorine pesticides, dichlorodiphenyldichloroethane (4,4'-DDD), dichlorodiphenyldichloroethylene (4,4'-DDE), dichloro-diphenyl-trichloroethane (4,4'-DDT) were not detected in any of the sediment samples.
- Total Nitrates (Nitrate+Nitrite) was detected in one of the eight sediment samples, 21 EIS-CC53-LH-01, with a concentration of 3 milligrams per kilogram (mg/kg).
- Ammonia (as Nitrogen) was detected in all sediment samples. Ammonia concentrations ranged from 230 to 11,000 mg/kg with the highest concentration in sediment sample 21 EIS-WFK01-LH-01.

- Phosphorus was detected in all sediment samples. Phosphorus concentrations ranged from 442 to 753 mg/kg with the highest concentration in sediment sample 21 EIS-CC53-LH-01.

3.2 Per-and Polyfluoroalkyl Substances (PFAS)

- Six of the eight sediment samples collected had detections of PFAS compounds. The PFAS compounds included N-EtFOSAA, PFBA, PFDoA, PFHpA, PFNA, PFPeA, PFTriA, and PFUnA.
 - PFBS was not detected in any sediment samples collected.
 - PFOA was not detected in any sediment samples collected.
 - PFOS was not detected in any sediment samples collected.
 - PFOS-Total was detected in five of the eight sediment samples. The PFOS-Total concentrations ranged from 52 to 220 ng/kg with the highest concentration in sediment sample 21 EIS-CC53-LH-01.

3.3 Comparison Screening Levels

To help facilitate the interpretation and comparison of analytical results for sediment samples this section presents various U.S. Environmental Protection Agency (EPA) screening levels for arsenic, organochlorine pesticides (4,4'-DDD, 4,4'-DDE, 4,4'-DDT), Total Nitrates (Nitrate+Nitrite), Ammonia (as Nitrogen), and Phosphorus, and 14 per-and polyfluoroalkyl substances (PFAS) compounds. The following EPA screening levels provided for comparison are provided in Table 3.

- **EPA Consensus-Based Probable Effect Concentrations (PECs) in Sediment (EPA, 2000):** EPA Consensus-Based PECs are available for arsenic and organochlorine pesticides (4,4'-DDD, 4,4'-DDE, 4,4' DDT). EPA Consensus-Based PECs are a prediction of sediment toxicity using consensus-based freshwater quality guidelines on aquatic organisms in the ecosystem. A group of multi-agency, private sector and university scientists agreed upon these concentration levels as existing at a level at which detrimental effects to the aquatic ecosystem begin to be seen.
- **EPA Regional Screening Levels in Soil (RSLs) (EPA, 2021):** Generic summary tables calculated with a target cancer risk (TR) of 1E-06 and a target hazard quotient (THQ) of 1.0 are referenced for arsenic, organochlorine pesticides (4,4'-DDD, 4,4'-DDE, 4,4' DDT), and Ammonia (as Nitrogen). There are no EPA RSLs for Total Nitrates (Nitrate+Nitrite), or Phosphorus.

There are no applicable regulatory levels available for all 14 PFAS compounds, other than perfluorooctanoic acid (PFOA), perfluorooctane sulfonate (PFOS), and perfluorobutane sulfonate (PFBS). Analytical results for PFOS, PFOA, and PFBS in sediment were compared to the calculated EPA RSL of 0.13 mg/kg (130,000 nanograms per kilogram [ng/kg]) for PFOA and PFOS and analytical results for PFBS in sediment samples were compared to the calculated EPA RSL of 1.9 mg/kg (1.9e+6 ng/kg). The Wisconsin Department of Health Services does not currently have PFAS standards set for sediment.

- **EPA Drinking Water Standards (EPA, 2019, 2000, 2021, 2022):** EPA Drinking Water Standards are available for arsenic and Total Nitrates (Nitrate+Nitrite).

On December 19, 2019, EPA issued Interim Recommendations for Addressing Groundwater Contaminated with PFOA and PFOS, which provided cleanup guidance for federal cleanup programs (e.g., Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA] and Resource Conservation and Recovery Act [RCRA]). The guidance recommends:

- Using a screening level of 40 parts per trillion (ppt) to determine if PFOA and/or PFOS is present at a site and may warrant further attention. Screening levels are risk-based values that are used to determine if levels of contamination may warrant further investigation at a site.

4 References

U.S. Department of Agriculture Natural Resources Conservation Service (NRCS), 2001a. *Sediment Testing in the Plum Creek Watershed Pierce County, Wisconsin*. Dated July 2001.

NRCS, 2001b. *Sediment Testing at White Mound Lake Plain Honey Creek Watershed Structure #3, Sauk County, Wisconsin*. Dated October 2001.

U.S. Environmental Protection Agency (EPA), 2019. *EPA Releases PFAS Groundwater Guidance for Federal Cleanup Programs, Fulfilling PFAS Action Plan Commitment*. December 20, 2019.

Website accessed at

<https://www.epa.gov/newsreleases/epa-releases-pfas-groundwater-guidance-federal-cleanup-programs-fulfilling-pfas-action#:~:text=The%20guidance%20recommends%3A,further%20investigation%20at%20a%20site>.

EPA, 2000. *Prediction of sediment toxicity using consensus-based freshwater sediment quality guidelines*. United States Geological Survey final report for the EPA Great Lakes National Program Office. EPA 905/R-00/007. June 2000.

EPA, 2021. *Regional Screening Levels (RSLs) - Generic Tables, Tables as of: November 2021*.

Website accessed at

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>

EPA, 2022. *National Primary Drinking Water Regulations*.

Website accessed at

<https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations>

WDNR, 2022. *Per- and Polyfluoroalkyl Substances (PFAS)*.

Website accessed at

<https://www.dhs.wisconsin.gov/chemical/pfas.htm>

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Figures

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Figure 1. Coon Creek Watershed with Structure Locations.

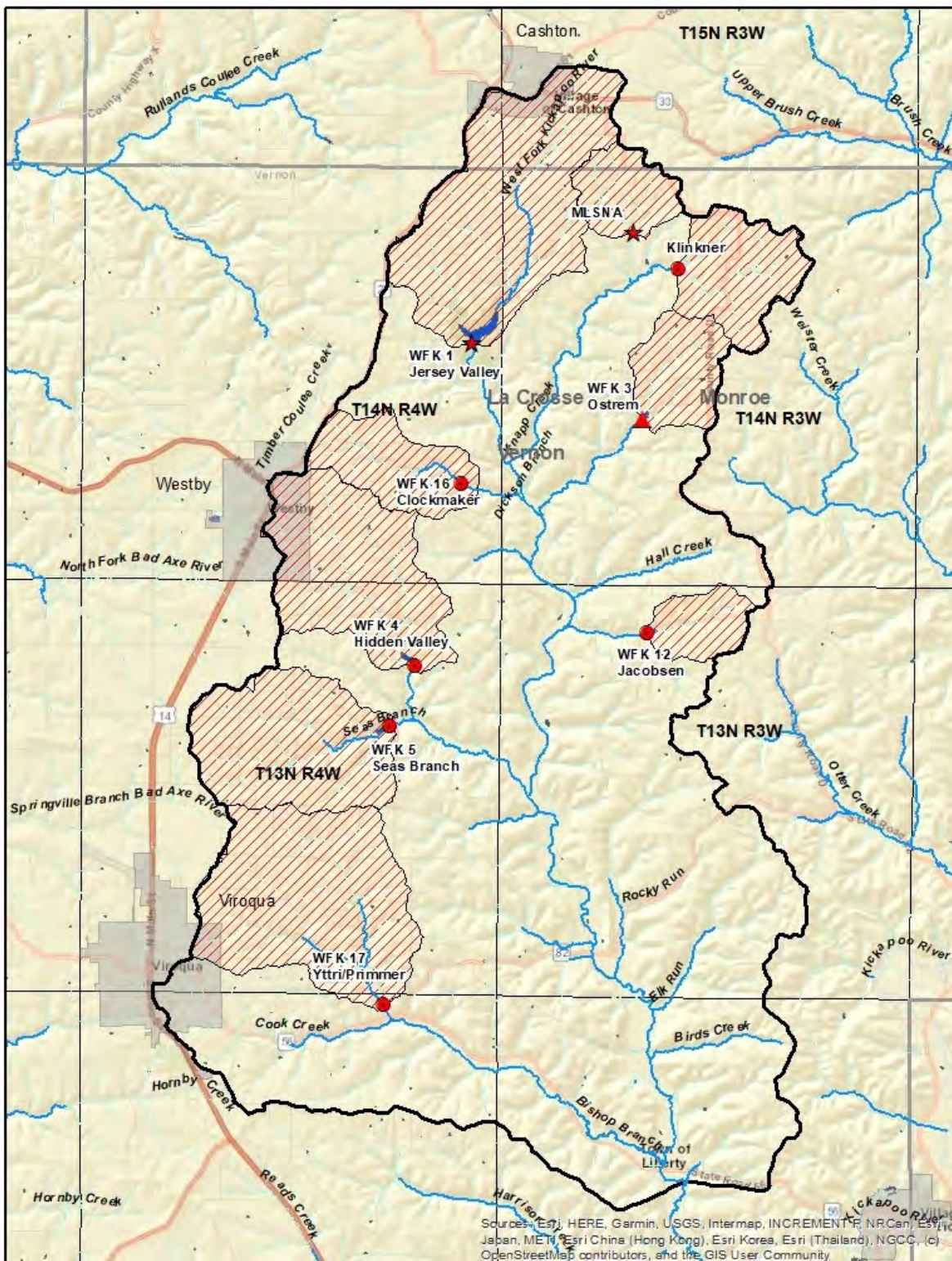


Figure 2. West Fork Kickapoo Watershed with Structure Locations.

Tables

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Table 1. Sediment Sample Analytical Methods

Analytical Group	Analyte	Units	EPA Analytical Method
Metals by ICP	Arsenic	mg/kg-dry	6010B ¹
Organochlorine Pesticides	DDT	µg/kg-dry	8081B ²
	DDE	µg/kg-dry	8081B ²
	DDD	µg/kg-dry	8081B ²
Conventionals	Percent Moisture	wt%	--
	Nitrogen (NO3 + NO2)	mg/kg-dry	353.2 ³ /350.1 ⁴
	Nitrogen (ammonia)	mg/kg-dry	353.2 ³ /350.1 ⁴
	Phosphorus	mg/kg-dry	365.4 ⁵
PFAS	PFOS/PFOA	ng/kg	537 ⁶

Notes:¹ 6010B Inductively Coupled Plasma-Atomic Emission Spectrometry² SW-846 Method 8081B Organochlorine Pesticides by Gas Chromatography³ 353.2 Nitrogen, Nitrate-Nitrite – Colormetric/Cadmium or Nitrate-Nitrate by Automated Colorimetry⁴ 350.1 Nitrogen, Ammonia – Colorimetric or Nitrogen, Ammonia – Semi Automated Colorimetry⁵ 365.4 Phosphorus, Total – Colormetric/Automated/Block Digester AA II⁶ EPA Method 537, Perfluoroalkyl Substances (PFASs)Details of these tests can be found at www.epa.gov/epaoswer/hazwaste/test/under.html**Acronyms and Abbreviations:**

mg/kg-dry - milligram per kilogram dry weight

µg/Kg-dry – microgram per kilogram dry weight

wt% - weight percent

ng/kg – nanogram per kilogram

Table 2. Summary of Analytical Results for Sediment Samples

Parameter	Units	21 EIS-WFK04-RH-01	21 EIS-WFK04-RH-05	21 EIS-WFK01-LH-01	21 EIS-WFK01-LH-05	21 EIS-CC25-LH-01	21 EIS-CC25-LH-05	21 EIS-CC53-LH-01	22 EIS-CC53-LH-05
		0 to 1 feet	5 to 6 feet	0 to 1 feet	5 to 6 feet	0 to 1 feet	5 to 6 feet	0 to 1 feet	5 to 6 feet
		12/13/2021 1015	12/13/2021 1020	12/13/2021 1228	12/13/2021 1233	12/14/2021 1303	12/14/2021 1310	12/20/2021 1335	12/20/2021 1341
Metals by ICP									
Arsenic	mg/Kg-dry	ND	ND	ND	ND	ND	ND	ND	ND
Organochlorine Pesticides									
4,4'-DDD	µg/Kg-dry	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	µg/Kg-dry	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	µg/Kg-dry	ND	ND	ND	ND	ND	ND	ND	ND
Conventionals									
Percent Moisture (Water Content)	wt%	64	58	77	86	70	66	71	72
Total Nitrates (Nitrate+Nitrite)	mg/Kg-dry	ND	ND	ND	ND	ND	ND	3	ND
Nitrogen, Ammonia (As N)	mg/Kg-dry	1300	850	11000	430	530	1300	1200	230
Phosphorus (As P)	mg/Kg-dry	447	498	442	524	739	723	753	461
PFAS									
N-EtFOSAA	ng/kg	ND	45	ND	ND	ND	ND	ND	ND
FtS 4:2	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
FtS 6:2	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
FtS 8:2	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
N-MeFOSAA	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFBA	ng/kg	ND	53	ND	ND	93	83	150	170
PFBS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFDA	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFDoA	ng/kg	ND	ND	ND	ND	ND	42	ND	ND
PFDS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFHpA	ng/kg	ND	ND	ND	ND	ND	39	48	ND
PFHpS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFHxA	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFHxS-Total	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFNA	ng/kg	ND	ND	ND	ND	44	59	98	36
PFNS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFOA	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFOS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFOS-Total	ng/kg	52	ND	ND	ND	120	160	220	120
PFPeA	ng/kg	ND	ND	ND	ND	ND	ND	ND	35
PFPeS	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFTeA	ng/kg	ND	ND	ND	ND	ND	ND	ND	ND
PFTriA	ng/kg	ND	ND	ND	ND	39	37	41	ND
PFUnA	ng/kg	ND	ND	ND	ND	ND	49	62	ND

Notes:

Detections are shown **BOLD**.

Acronyms and Abbreviations:

CC - Coon Creek Watershed

WFK - West Fork Kickapoo Watershed

ND - Nondetect

Table 3. Comparison Screening Levels

Contaminant	EPA Consensus Based PEC for Sediment (mg/kg) ¹	EPA Regional Screening Levels for Soil (mg/kg) ²	EPA Drinking Water Standard (mg/L) ^{3, 4}
Arsenic	33.0	0.68	0.010
4,4'-DDD	28.0	1.9	--
4,4'-DDE	31.3	2.0	--
4,4' DDT	62.9	1.9	--
Total Nitrates (Nitrate+Nitrite)	--	--	10
Ammonia (as Nitrogen)	--	7800	--
Phosphorus	--	--	--
PFOA	--	0.13	0.00004
PFOS	--	0.13	0.00004
PFBS	--	1.9	--

Notes:

1 mg/kg = 1 ppm = 1,000,000 ng/kg

1 mg/L = 1 ppm = 1000000000 ppt

40 ppt = 0.00004 ppm

¹ EPA Consensus-Based PEC, EPA 905/R-00/007 (EPA, 2000).

² EPA RSLs calculated with a target cancer risk (TR) of 1E-06 and a target hazard quotient (THQ) of 1.0 (EPA, 2021). For PFAS calculated EPA RSL of 0.13 mg/kg for PFOA and PFOS and analytical results for PFBS in sediment samples were compared to the calculated EPA RSL of 1.9 mg/kg .

³ EPA National Primary Drinking Water Regulations (EPA, 2022).

⁴ EPA Releases PFAS Groundwater Guidance (EPA, 2019).

Acronyms and Abbreviations:

-- - Not Available

EPA - U.S. Environmental Protection Agency

mg/kg - milligram per kilogram

PE - probable effect concentrations

ppm - parts per million

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Attachment

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SUBURBAN LABORATORIES, Inc.



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www.suburbanlabs.com

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Geneva, Illinois 60134
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Fax (708) 544-8587

January 19, 2022

Steve Becker
Natural Resource
8030 Execlsior Dr, Suite 200
Madison, WI 53717

Workorder 2201017

RE: Coon Creek & W Fork Kickapoo Dam

Dear Steve Becker:

Suburban Laboratories, Inc. received 8 sample(s) on 1/3/2022 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Patrick Liberg
Compliance Services Manager
(262) 419-0481
patl@suburbanlabs.com

Client: Natural Resource

Project: Coon Creek & W Fork Kickapoo Dam

WorkOrder: 2201017

Temperature of samples upon receipt at WISE: 3.5C

Temperature of samples upon receipt at WISE: 3.5C

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

G = Samples subcontracted to Fibertec Environmental Services for some of the analysis requested. (PFAS)

G = Samples subcontracted to Pace Analytical Services, for some of the analysis requested. (8270)

Nitrate + Nitrite:

Samples 2201017-001C through -008C: H=Samples received past the holding time for this test.

8081:

Samples 2201017-001C through -008C: H=Samples received past the holding time for this test.

Percent Solids done by Pace Analytical was used to calculate dry weight results.



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-WFK04-RH-01

Matrix: SEDIMENT

Lab ID: 2201017-001

Date Received: 01/03/2022 10:30 AM Collection Date: 12/13/2021 10:15 AM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND	1.08911	4.9505			mg/Kg-dry	1	01/11/2022 3:22 PM	79403	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	3.69104	3.69104	H		µg/Kg-dry	1	01/06/2022 5:54 PM	79315	
4,4'-DDE	ND	3.69104	3.69104	H		µg/Kg-dry	1	01/06/2022 5:54 PM	79315	
4,4'-DDT	ND	3.69104	3.69104	H		µg/Kg-dry	1	01/06/2022 5:54 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	63.2		0	0	H	%Rec	1	01/06/2022 5:54 PM	79315	
SS: Tetrachloro-m-xylene	60.0		0	0	H	%Rec	1	01/06/2022 5:54 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	2.80112	8.40336	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	64				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	1,300		83	260	WIH	mg/Kg-dry	268.81	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	447		40.2	132	WI	mg/Kg-dry	462.58	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-WFK04-RH-05

Matrix: SEDIMENT

Lab ID: 2201017-002

Date Received: 01/03/2022 10:30 AM Collection Date: 12/13/2021 10:20 AM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND		1.1	5		mg/Kg-dry	1	01/11/2022 3:26 PM	79403	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	3.1457	3.1457	H		µg/Kg-dry	1	01/06/2022 6:19 PM	79315	
4,4'-DDE	ND	3.1457	3.1457	H		µg/Kg-dry	1	01/06/2022 6:19 PM	79315	
4,4'-DDT	ND	3.1457	3.1457	H		µg/Kg-dry	1	01/06/2022 6:19 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	54.1		0	0	H	%Rec	1	01/06/2022 6:19 PM	79315	
SS: Tetrachloro-m-xylene	56.4		0	0	H	%Rec	1	01/06/2022 6:19 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	2.38095	7.14286	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	58				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	850		31	97	WIH	mg/Kg-dry	118.26	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	498		78	257	WI	mg/Kg-dry	1056.86	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-WFK01-LH-01

Matrix: SEDIMENT

Lab ID: 2201017-003

Date Received: 01/03/2022 10:30 AM Collection Date: 12/13/2021 12:28 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND	1.04762	4.76190			mg/Kg-dry	1	01/11/2022 3:29 PM	79403	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	5.81975	5.81975	H		µg/Kg-dry	1	01/06/2022 6:44 PM	79315	
4,4'-DDE	ND	5.81975	5.81975	H		µg/Kg-dry	1	01/06/2022 6:44 PM	79315	
4,4'-DDT	ND	5.81975	5.81975	H		µg/Kg-dry	1	01/06/2022 6:44 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	80.1		0	0	H	%Rec	1	01/06/2022 6:44 PM	79315	
SS: Tetrachloro-m-xylene	87.0		0	0	H	%Rec	1	01/06/2022 6:44 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	4.38596	13.1579	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	77				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	11,000		20	63	WIH	mg/Kg-dry	41.5	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	442		119	393	WI	mg/Kg-dry	877.96	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-WFK01-LH-05

Matrix: SEDIMENT

Lab ID: 2201017-004

Date Received: 01/03/2022 10:30 AM Collection Date: 12/13/2021 12:33 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND	1.06796	4.85437			mg/Kg-dry	1	01/11/2022 3:33 PM	79403	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	9.18711	9.18711	H		µg/Kg-dry	1	01/06/2022 7:09 PM	79315	
4,4'-DDE	ND	9.18711	9.18711	H		µg/Kg-dry	1	01/06/2022 7:09 PM	79315	
4,4'-DDT	ND	9.18711	9.18711	H		µg/Kg-dry	1	01/06/2022 7:09 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	94.4		0	0	H	%Rec	1	01/06/2022 7:09 PM	79315	
SS: Tetrachloro-m-xylene	92.0		0	0	H	%Rec	1	01/06/2022 7:09 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	6.94444	20.8333	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	86				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	430		40	130	WIH	mg/Kg-dry	52.8	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	524		211	696	JWI	mg/Kg-dry	981.93	01/04/2022 12:40 PM	79255	

Client ID: Natural Resource
Project Name: Coon Creek & W Fork Kickapoo Dam

Report Date: January 19, 2022
Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-CC25-LH-01

Matrix: SEDIMENT

Lab ID: 2201017-005 **Date Received:** 01/03/2022 10:30 AM **Collection Date:** 12/14/2021 1:03 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND		1.1	5		mg/Kg-dry	1	01/11/2022 3:36 PM	79403	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	4.47980	4.47980	H		µg/Kg-dry	1	01/06/2022 8:25 PM	79315	
4,4'-DDE	ND	4.47980	4.47980	H		µg/Kg-dry	1	01/06/2022 8:25 PM	79315	
4,4'-DDT	ND	4.47980	4.47980	H		µg/Kg-dry	1	01/06/2022 8:25 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	69.5		0	0	H	%Rec	1	01/06/2022 8:25 PM	79315	
SS: Tetrachloro-m-xylene	77.6		0	0	H	%Rec	1	01/06/2022 8:25 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	3.37838	10.1351	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	70				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	530		17	53	WIH	mg/Kg-dry	45.4	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	739		104	341	WI	mg/Kg-dry	989.71	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-CC25-LH-05

Matrix: SEDIMENT

Lab ID: 2201017-006

Date Received: 01/03/2022 10:30 AM Collection Date: 12/14/2021 1:10 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	1.10	1.06796	4.85437	J		mg/Kg-dry	1	01/11/2022 3:50 PM	79404	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	3.85522	3.85522	H		µg/Kg-dry	1	01/06/2022 8:50 PM	79315	
4,4'-DDE	ND	3.85522	3.85522	H		µg/Kg-dry	1	01/06/2022 8:50 PM	79315	
4,4'-DDT	ND	3.85522	3.85522	H		µg/Kg-dry	1	01/06/2022 8:50 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	56.3		0	0	H	%Rec	1	01/06/2022 8:50 PM	79315	
SS: Tetrachloro-m-xylene	76.3		0	0	H	%Rec	1	01/06/2022 8:50 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	2.94118	8.82353	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	66				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	1,300		29	93	WIH	mg/Kg-dry	91	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	723	88.4	291	WI		mg/Kg-dry	969.37	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-CC53-LH-01

Matrix: SEDIMENT

Lab ID: 2201017-007

Date Received: 01/03/2022 10:30 AM Collection Date: 12/20/2021 1:35 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND	1.08911	4.9505			mg/Kg-dry	1	01/11/2022 3:54 PM	79404	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	4.46826	4.46826	H		µg/Kg-dry	1	01/06/2022 9:16 PM	79315	
4,4'-DDE	ND	4.46826	4.46826	H		µg/Kg-dry	1	01/06/2022 9:16 PM	79315	
4,4'-DDT	ND	4.46826	4.46826	H		µg/Kg-dry	1	01/06/2022 9:16 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	61.6		0	0	H	%Rec	1	01/06/2022 9:16 PM	79315	
SS: Tetrachloro-m-xylene	80.4		0	0	H	%Rec	1	01/06/2022 9:16 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	3.4	3.38983	10.1695	JH		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	71				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	1,200		24	75	WI	mg/Kg-dry	63.7	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	753		104	342	WI	mg/Kg-dry	990.1	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

Client Sample ID/Monitoring Point: 21 EIS-CC53-LH-05

Matrix: SEDIMENT

Lab ID: 2201017-008

Date Received: 01/03/2022 10:30 AM Collection Date: 12/20/2021 1:41 PM

Parameter	Result	MCL	LOD	LOQ	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96						Analyst: SCT		
Arsenic	ND	1.05769	4.80769			mg/Kg-dry	1	01/11/2022 3:58 PM	79404	
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96						Analyst: RHY		
4,4'-DDD	ND	4.70883	4.70883	H		µg/Kg-dry	1	01/06/2022 9:41 PM	79315	
4,4'-DDE	ND	4.70883	4.70883	H		µg/Kg-dry	1	01/06/2022 9:41 PM	79315	
4,4'-DDT	ND	4.70883	4.70883	H		µg/Kg-dry	1	01/06/2022 9:41 PM	79315	
<u>Internal Quality Control Compounds</u>										
SS: Decachlorobiphenyl	65.9		0	0	H	%Rec	1	01/06/2022 9:41 PM	79315	
SS: Tetrachloro-m-xylene	81.0		0	0	H	%Rec	1	01/06/2022 9:41 PM	79315	
TOTAL NITRATES		Method: MCAWW-E353.2-Rev 2.0 August 1993						Analyst: STP		
Total Nitrates (Nitrate+Nitrite)	ND	3.59712	10.7914	H		mg/Kg-dry	1	01/07/2022 4:24 PM	79358	
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005						Analyst: AG		
Percent Moisture	72				H	wt%	1	01/18/2022 7:30 PM	R143851	
AMMONIA, BY SELECTIVE ELECTRODE, SOLIDS		Method: SM-4500-NH3-D-Rev 22nd Ed.						Analyst: NKK		
Nitrogen, Ammonia (As N)	230		12	39	WI	mg/Kg-dry	31.01	01/18/2022 12:00 PM	79585	
PHOSPHORUS, TOTAL		Method: SM-M4500P E-Rev 22nd Ed.						Analyst: JC		
Phosphorus (As P)	461		110	362	WI	mg/Kg-dry	987.75	01/04/2022 12:40 PM	79255	



Client ID: Natural Resource

Report Date: January 19, 2022

Project Name: Coon Creek & W Fork Kickapoo Dam

Workorder: 2201017

A handwritten signature in black ink, appearing to read 'Patrick Liberg'.

Patrick Liberg
Compliance Services Manager
(262) 419-0481
patl@suburbanlabs.com



Client: Natural Resource

Report Date: January 19, 2022

Project: Coon Creek & W Fork Kickapoo D

Lab Order: 2201017

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2201017-001C	12/13/2021 10:15:00 AM	79315	SOLID PREP SONICATION: Pest		1/6/2022
		79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
2201017-001D		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
		79315	SOLID PREP SONICATION: Pest		1/6/2022
2201017-002C	12/13/2021 10:20:00 AM	79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
2201017-002D		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
		79315	SOLID PREP SONICATION: Pest		1/6/2022
		79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
2201017-003C	12/13/2021 12:28:00 PM	79358	Total Nitrates Solid prep		1/5/2022
		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
2201017-003D		79315	SOLID PREP SONICATION: Pest		1/6/2022
		79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
2201017-004C	12/13/2021 12:33:00 PM	79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
		79315	SOLID PREP SONICATION: Pest		1/6/2022
2201017-004D		79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
2201017-005C	12/14/2021 1:03:00 PM	79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
		79315	SOLID PREP SONICATION: Pest		1/6/2022
		79403	SOLID PREP TOTAL METALS: ICP		1/10/2022
2201017-005D		79358	Total Nitrates Solid prep		1/5/2022
		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
2201017-006C	12/14/2021 1:10:00 PM	79315	SOLID PREP SONICATION: Pest		1/6/2022
		79404	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
2201017-006D		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Natural Resource

Report Date: January 19, 2022

Project: Coon Creek & W Fork Kickapoo D

Lab Order: 2201017

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2201017-007C	12/20/2021 1:35:00 PM	79315	SOLID PREP SONICATION: Pest		1/6/2022
		79404	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
2201017-007D		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022
2201017-008C	12/20/2021 1:41:00 PM	79315	SOLID PREP SONICATION: Pest		1/6/2022
		79404	SOLID PREP TOTAL METALS: ICP		1/10/2022
		79358	Total Nitrates Solid prep		1/5/2022
2201017-008D		79585	AMMONIA, DISTILLED SOLID PREP		1/17/2022
		79255	PHOSPHORUS, WATER EXTRACTABLE PREP		1/3/2022



Qualifiers:

- */x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- K Results can be used for NR 812 compliance only
- N Tentatively identified compounds
- ND Not detected at the limit of detection (MDL)
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
- WI This sample was ran at the Wisconsin Laboratory, WI DNR Certified #246179890



Thursday, January 13, 2022

Fibertec Project Number: A06209
Project Identification: 2201017 /2201017
Submittal Date: 01/04/2022

Mr. Patrick Liberg
Suburban Laboratories
1950 S Batavia Ave
Suite 150
Geneva, IL 60134

Dear Mr. Liberg,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Sharon Rakow at 5:11 PM, Jan 13, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

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F: (810) 220-3311
F: (231) 775-8584

Page 15 of 39



Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-001

Order: A06209
Page: 2 of 10
Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-WFK04-RH-01	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 1	Collect Date: 12/13/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 10:15

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-001** Matrix: **Soil/Solid**
Method: ASTM D2216-10 Description: **21 EIS-WFK04-RH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	40		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-001A** Matrix: **Soil/Solid**
Method: ASTM D7968-17a Description: **21 EIS-WFK04-RH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 6. PFBA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	170	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	49	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 15. PFNA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	170	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 19. PFOS-Total	52		ng/kg	52	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	170	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 23. PFTriA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-002

Order: A06209
 Page: 3 of 10
 Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-WFK04-RH-05	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 2	Collect Date: 12/13/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 10:20

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-002** Matrix: **Soil/Solid**
 Method: **ASTM D2216-10** Description: **21 EIS-WFK04-RH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	41		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-002A** Matrix: **Soil/Solid**
 Method: **ASTM D7968-17a** Description: **21 EIS-WFK04-RH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	45		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	53		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	170	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	51	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	170	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	U		ng/kg	53	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	170	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-003

Order: A06209
 Page: 4 of 10
 Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-WFK01-LH-01	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 3	Collect Date: 12/13/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 12:28

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-003** Matrix: **Soil/Solid**
 Method: **ASTM D2216-10** Description: **21 EIS-WFK01-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	13		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-003A** Matrix: **Soil/Solid**
 Method: **ASTM D7968-17a** Description: **21 EIS-WFK01-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	110	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	34	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	110	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	110	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-004

Order: A06209
Page: 5 of 10
Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-WFK01-LH-05	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 4	Collect Date: 12/13/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 12:33

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-004** Matrix: **Soil/Solid**
Method: ASTM D2216-10 Description: **21 EIS-WFK01-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	15		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-004A** Matrix: **Soil/Solid**
Method: ASTM D7968-17a Description: **21 EIS-WFK01-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	120	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	120	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	120	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	29	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-005

Order: A06209
 Page: 6 of 10
 Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-CC25-LH-01	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 5	Collect Date: 12/14/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 13:03

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-005** Matrix: **Soil/Solid**
 Method: **ASTM D2216-10** Description: **21 EIS-CC25-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	33		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-005A** Matrix: **Soil/Solid**
 Method: **ASTM D7968-17a** Description: **21 EIS-CC25-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 6. PFBA	93		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	150	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	44	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 15. PFNA	44		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	150	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 19. PFOS-Total	120		ng/kg	46	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	150	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 23. PFTriA	39		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	37	1.0	01/04/22	PS22A04J	01/06/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-006

Order: A06209
 Page: 7 of 10
 Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-CC25-LH-05	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 6	Collect Date: 12/14/21
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 13:10

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-006** Matrix: **Soil/Solid**
 Method: **ASTM D2216-10** Description: **21 EIS-CC25-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	31		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-006A** Matrix: **Soil/Solid**
 Method: **ASTM D7968-17a** Description: **21 EIS-CC25-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	83		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	42		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	39		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	59		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	160		ng/kg	45	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	37		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	49		ng/kg	36	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-007

Order: A06209
Page: 8 of 10
Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-CC53-LH-01	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 7	Collect Date: 12/20/22
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 13:35

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-007** Matrix: **Soil/Solid**
Method: **ASTM D2216-10** Description: **21 EIS-CC53-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	29		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-007A** Matrix: **Soil/Solid**
Method: **ASTM D7968-17a** Description: **21 EIS-CC53-LH-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	150		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	48		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	42	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	98		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	220		ng/kg	43	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	140	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	41		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	62		ng/kg	35	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Analytical Laboratory Report
Laboratory Project Number: A06209
Laboratory Sample Number: A06209-008

Order: A06209
 Page: 9 of 10
 Date: 01/13/22

Client Identification: Suburban Laboratories	Sample Description: 21 EIS-CC53-LH-05	Chain of Custody: 34620
Client Project Name: 2201017	Sample No: 8	Collect Date: 12/20/22
Client Project No: 2201017	Sample Matrix: Soil/Solid	Collect Time: 13:41

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C Aliquot ID: **A06209-008** Matrix: **Soil/Solid**
 Method: **ASTM D2216-10** Description: **21 EIS-CC53-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	25		%	1	1.0	01/04/22	MC220104	01/05/22	MC220104	LET

PFAS Aliquot ID: **A06209-008A** Matrix: **Soil/Solid**
 Method: **ASTM D7968-17a** Description: **21 EIS-CC53-LH-05**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. N-EtFOSAA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 2. FtS 4:2	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 3. FtS 6:2	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 4. FtS 8:2	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 5. N-MeFOSAA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 6. PFBA	170		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 7. PFBS	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 8. PFDA	U		ng/kg	130	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 9. PFDoA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 10. PFDS	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 11. PFHpA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 12. PFHpS	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 13. PFHxA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 14. PFHxS-Total	U		ng/kg	40	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 15. PFNA	36		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 16. PFNS	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 17. PFOA	U		ng/kg	130	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 18. PFOSA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 19. PFOS-Total	120		ng/kg	42	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 20. PFPeA	35		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 21. PFPeS	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 22. PFTeA	U	C+	ng/kg	130	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 23. PFTriA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG
‡ 24. PFUnA	U		ng/kg	33	1.0	01/04/22	PS22A04J	01/07/22	SM22A06A	SKG

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Definitions/ Qualifiers:

- A:** Spike recovery or precision unusable due to dilution.
- B:** The analyte was detected in the associated method blank.
- E:** The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J:** The concentration is an estimated value.
- M:** Modified Method
- U:** The analyte was not detected at or above the reporting limit.
- X:** Matrix Interference has resulted in a raised reporting limit or distorted result.
- W:** Results reported on a wet-weight basis.
- *:** Value reported is outside QC limits

Exception Summary:

- C+** : Recovery in the Reporting Limit Check Sample (RLCS) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

January 17, 2022

Patrick Liberg
Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva, IL 60134
RE: Omega COCID 34619

Enclosed are the analytical results for the samples received by the laboratory on 01/04/2022.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2022
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2022
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2022
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2022
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2022
NYDOH	New York Department of Health	12110	04/01/2022
TCEQ	Texas Secondary NELAP Accreditation	T104704504-20-11	11/30/2022
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2022

Suburban Laboratories
 1950 S. Batavia Ave., Suite 150
 Geneva IL, 60134

Project: Omega COCID 34619
 Project Number: [none]
 Project Manager: Patrick Liberg

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2201017-001B	A220106-01	Sediment	12/13/2021	01/04/2022
2201017-002B	A220106-02	Sediment	12/13/2021	01/04/2022
2201017-003B	A220106-03	Sediment	12/13/2021	01/04/2022
2201017-004B	A220106-04	Sediment	12/13/2021	01/04/2022
2201017-005B	A220106-05	Sediment	12/14/2021	01/04/2022
2201017-006B	A220106-06	Sediment	12/14/2021	01/04/2022
2201017-007B	A220106-07	Sediment	12/20/2021	01/04/2022
2201017-008B	A220106-08	Sediment	12/20/2021	01/04/2022

CASE NARRATIVE

Sample Receipt Information:

8 samples were received on 01/04/2022. Sample was received in acceptable condition, with the exceptions noted below.

Samples A220106-01 through A220106-08 were received past recommended hold time. Client instructed the lab to proceed with the analysis.

Please see the chain of custody (COC) document at the end of this report for additional information.

Suburban Laboratories
 1950 S. Batavia Ave., Suite 150
 Geneva IL, 60134

Project: Omega COCID 34619
 Project Number: [none]
 Project Manager: Patrick Liberg

2201017-001B

Date Sampled

A220106-01 (Sediment)

12/13/2021 10:15

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	40	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
Atrazine	ND	22	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
Cyanazine	ND	56	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
Desethylatrazine	ND	34	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
Deisopropylatrazine	ND	71	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
Metolachlor	ND	30	150	ug/kg dry	2	01/07/2022	01/13/2022 12:18	EPA 8270D	
<i>Surrogate: Atrazine-d5</i>			58.0 %	52.1-133		01/07/2022	01/13/2022 12:18	EPA 8270D	
<i>Surrogate: Parathion-d10</i>			76.0 %	34.7-143		01/07/2022	01/13/2022 12:18	EPA 8270D	
<i>Surrogate: Triphenyl phosphate</i>			56.1 %	54.3-142		01/07/2022	01/13/2022 12:18	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201101

% Solids	64.3		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

2201017-002B

Date Sampled

A220106-02 (Sediment)

12/13/2021 10:20

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	22	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Atrazine	ND	12	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Cyanazine	ND	31	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Desethylatrazine	ND	19	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Deisopropylatrazine	ND	39	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Metolachlor	ND	16	86	ug/kg dry	1	01/07/2022	01/10/2022 15:14	EPA 8270D	
Surrogate: Atrazine-d5			37.7 %	52.1-133		01/07/2022	01/10/2022 15:14	EPA 8270D	S
Surrogate: Parathion-d10			83.1 %	34.7-143		01/07/2022	01/10/2022 15:14	EPA 8270D	
Surrogate: Triphenyl phosphate			38.0 %	54.3-142		01/07/2022	01/10/2022 15:14	EPA 8270D	S

Classical Chemistry Parameters

Preparation Batch: A201101

% Solids	58.0		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
 1950 S. Batavia Ave., Suite 150
 Geneva IL, 60134

Project: Omega COCID 34619
 Project Number: [none]
 Project Manager: Patrick Liberg

2201017-003B

Date Sampled

A220106-03 (Sediment)

12/13/2021 12:28

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	17	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Atrazine	ND	9.2	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Cyanazine	ND	23	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Desethylatrazine	ND	14	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Deisopropylatrazine	ND	30	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Metolachlor	ND	12	65	ug/kg dry	1	01/07/2022	01/10/2022 13:16	EPA 8270D	
Surrogate: Atrazine-d5			88.0 %	52.1-133		01/07/2022	01/10/2022 13:16	EPA 8270D	
Surrogate: Parathion-d10			80.2 %	34.7-143		01/07/2022	01/10/2022 13:16	EPA 8270D	
Surrogate: Triphenyl phosphate			83.9 %	54.3-142		01/07/2022	01/10/2022 13:16	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	77.2		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

2201017-004B

Date Sampled

A220106-04 (Sediment)

12/13/2021 12:33

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	15	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Atrazine	ND	8.2	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Cyanazine	ND	21	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Desethylatrazine	ND	13	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Deisopropylatrazine	ND	27	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Metolachlor	ND	11	58	ug/kg dry	1	01/07/2022	01/10/2022 15:43	EPA 8270D	
Surrogate: Atrazine-d5			102 %	52.1-133		01/07/2022	01/10/2022 15:43	EPA 8270D	
Surrogate: Parathion-d10			84.8 %	34.7-143		01/07/2022	01/10/2022 15:43	EPA 8270D	
Surrogate: Triphenyl phosphate			92.7 %	54.3-142		01/07/2022	01/10/2022 15:43	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	85.6		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

2201017-005B

Date Sampled

A220106-05 (Sediment)

12/14/2021 13:03

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	18	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Atrazine	ND	10	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Cyanazine	ND	25	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Desethylatrazine	ND	15	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Deisopropylatrazine	ND	32	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Metolachlor	ND	13	70	ug/kg dry	1	01/07/2022	01/10/2022 16:13	EPA 8270D	
Surrogate: Atrazine-d5			90.9 %	52.1-133		01/07/2022	01/10/2022 16:13	EPA 8270D	
Surrogate: Parathion-d10			80.2 %	34.7-143		01/07/2022	01/10/2022 16:13	EPA 8270D	
Surrogate: Triphenyl phosphate			83.4 %	54.3-142		01/07/2022	01/10/2022 16:13	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	70.4		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
 1950 S. Batavia Ave., Suite 150
 Geneva IL, 60134

Project: Omega COCID 34619
 Project Number: [none]
 Project Manager: Patrick Liberg

2201017-006B

Date Sampled

A220106-06 (Sediment)

12/14/2021 13:10

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	20	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Atrazine	ND	11	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Cyanazine	ND	27	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Desethylatrazine	ND	17	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Deisopropylatrazine	ND	35	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Metolachlor	ND	14	75	ug/kg dry	1	01/07/2022	01/10/2022 16:42	EPA 8270D	
Surrogate: Atrazine-d5			78.4 %	52.1-133		01/07/2022	01/10/2022 16:42	EPA 8270D	
Surrogate: Parathion-d10			90.3 %	34.7-143		01/07/2022	01/10/2022 16:42	EPA 8270D	
Surrogate: Triphenyl phosphate			77.2 %	54.3-142		01/07/2022	01/10/2022 16:42	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	66.0		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

2201017-007B

Date Sampled

A220106-07 (Sediment)

12/20/2021 13:35

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	18	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Atrazine	ND	10	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Cyanazine	ND	25	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Desethylatrazine	ND	16	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Deisopropylatrazine	ND	33	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Metolachlor	ND	14	71	ug/kg dry	1	01/07/2022	01/10/2022 17:41	EPA 8270D	
Surrogate: Atrazine-d5			86.9 %	52.1-133		01/07/2022	01/10/2022 17:41	EPA 8270D	
Surrogate: Parathion-d10			80.5 %	34.7-143		01/07/2022	01/10/2022 17:41	EPA 8270D	
Surrogate: Triphenyl phosphate			82.1 %	54.3-142		01/07/2022	01/10/2022 17:41	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	70.5		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

2201017-008B

Date Sampled

A220106-08 (Sediment)

12/20/2021 13:41

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A201100

H

Alachlor	ND	18	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Atrazine	ND	9.8	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Cyanazine	ND	25	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Desethylatrazine	ND	15	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Deisopropylatrazine	ND	32	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Metolachlor	ND	13	69	ug/kg dry	1	01/07/2022	01/11/2022 00:33	EPA 8270D	
Surrogate: Atrazine-d5			108 %	52.1-133		01/07/2022	01/11/2022 00:33	EPA 8270D	
Surrogate: Parathion-d10			107 %	34.7-143		01/07/2022	01/11/2022 00:33	EPA 8270D	
Surrogate: Triphenyl phosphate			119 %	54.3-142		01/07/2022	01/11/2022 00:33	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A201102

% Solids	72.2		0.00	% by Weight	1	01/07/2022	01/08/2022 09:45	ASTM D2974-87	
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Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

Base Neutral Pesticides by Gas Chromatography/Mass Spectrometry - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A201100 - EPA 3570

Blank (A201100-BLK1)

Prepared: 01/07/2022 Analyzed: 01/10/2022 12:18

Alachlor	ND	50	ug/kg wet							
Atrazine	ND	50	ug/kg wet							
Cyanazine	ND	50	ug/kg wet							
Desethylatrazine	ND	50	ug/kg wet							
Deisopropylatrazine	ND	50	ug/kg wet							
Metolachlor	ND	50	ug/kg wet							
<i>Surrogate: Atrazine-d5</i>	195		ug/kg wet	199.6		97.7	52.1-133			
<i>Surrogate: Parathion-d10</i>	172		ug/kg wet	200.4		85.6	34.7-143			
<i>Surrogate: Triphenyl phosphate</i>	197		ug/kg wet	200.0		98.7	54.3-142			

LCS (A201100-BS1)

Prepared: 01/07/2022 Analyzed: 01/10/2022 12:47

Alachlor	395	50	ug/kg wet	400.0		98.6	76.8-121			
Atrazine	383	50	ug/kg wet	400.0		95.7	77.5-121			
Cyanazine	385	50	ug/kg wet	400.0		96.1	70.8-131			
Desethylatrazine	408	50	ug/kg wet	400.0		102	79.9-119			
Deisopropylatrazine	394	50	ug/kg wet	400.0		98.5	71.6-123			
Metolachlor	394	50	ug/kg wet	400.0		98.6	78.5-121			
<i>Surrogate: Atrazine-d5</i>	214		ug/kg wet	199.6		107	52.1-133			
<i>Surrogate: Parathion-d10</i>	194		ug/kg wet	200.4		97.0	34.7-143			
<i>Surrogate: Triphenyl phosphate</i>	194		ug/kg wet	200.0		97.1	54.3-142			

Matrix Spike (A201100-MS1)

Source: A220106-03

Prepared: 01/07/2022 Analyzed: 01/10/2022 13:46

Alachlor	501	65	ug/kg dry	516.8	ND	96.9	62.9-136			
Atrazine	478	65	ug/kg dry	516.8	ND	92.5	67.9-123			
Cyanazine	388	65	ug/kg dry	516.8	ND	75.1	43.2-145			
Desethylatrazine	383	65	ug/kg dry	516.8	ND	74.1	36.4-129			
Deisopropylatrazine	303	65	ug/kg dry	516.8	ND	58.7	15.9-127			
Metolachlor	506	65	ug/kg dry	516.8	ND	97.9	66.9-133			
<i>Surrogate: Atrazine-d5</i>	242		ug/kg dry	257.9		93.9	52.1-133			
<i>Surrogate: Parathion-d10</i>	224		ug/kg dry	258.9		86.5	34.7-143			
<i>Surrogate: Triphenyl phosphate</i>	227		ug/kg dry	258.4		87.9	54.3-142			

Matrix Spike Dup (A201100-MSD1)

Source: A220106-03

Prepared: 01/07/2022 Analyzed: 01/10/2022 14:15

Alachlor	497	65	ug/kg dry	516.8	ND	96.2	62.9-136	0.740	20	
Atrazine	505	65	ug/kg dry	516.8	ND	97.8	67.9-123	5.48	20	
Cyanazine	466	65	ug/kg dry	516.8	ND	90.2	43.2-145	18.3	20	
Desethylatrazine	462	65	ug/kg dry	516.8	ND	89.4	36.4-129	18.8	20	
Deisopropylatrazine	364	65	ug/kg dry	516.8	ND	70.5	15.9-127	18.2	20	
Metolachlor	526	65	ug/kg dry	516.8	ND	102	66.9-133	3.85	20	
<i>Surrogate: Atrazine-d5</i>	234		ug/kg dry	257.9		90.6	52.1-133			
<i>Surrogate: Parathion-d10</i>	274		ug/kg dry	258.9		106	34.7-143			
<i>Surrogate: Triphenyl phosphate</i>	251		ug/kg dry	258.4		97.2	54.3-142			

Suburban Laboratories
 1950 S. Batavia Ave., Suite 150
 Geneva IL, 60134

Project: Omega COCID 34619
 Project Number: [none]
 Project Manager: Patrick Liberg

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A201101 - % Solids

Duplicate (A201101-DUP1)	Source: A215202-01		Prepared: 01/07/2022		Analyzed: 01/08/2022 09:45					
% Solids	76.0	0.00	% by Weight		75.6			0.452	20	

Batch A201102 - % Solids

Duplicate (A201102-DUP1)	Source: A220106-03		Prepared: 01/07/2022		Analyzed: 01/08/2022 09:45					
% Solids	76.7	0.00	% by Weight		77.2			0.707	20	

Suburban Laboratories
1950 S. Batavia Ave., Suite 150
Geneva IL, 60134

Project: Omega COCID 34619
Project Number: [none]
Project Manager: Patrick Liberg

Notes and Definitions

- S Surrogate recovery was outside of laboratory control limits.
- H The sample was held beyond the accepted holding time.
- ND Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
- NR Not Reported
- dry Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.



CHAIN OF CUSTODY RECORD



Omega COCID 34619

PAGE: 1 OF: 1

ADDRESS

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150
Geneva, IL 60134
TEL: (708) 544-3260
FAX: (708) 544-8587
Website: www.suburbanlabs.com

A220106

Form containing fields for SUB CONTRACTOR (PACE MADISON), ADDRESS, CITY, STATE, ZIP, PHONE, FAX, EMAIL, ACCOUNT #, SPECIAL INSTRUCTIONS / COMMENTS, ANALYTICAL PARAMETERS, and a table with columns for ITEM #, SAMPLE ID, Client Sample ID, Bottle Type, MATRIX, DATE COLLECTED, NUMBER OF CONTAINERS, and COMMENTS.

Temp at Receipt 3.2°C
Thermometer s/n 160142274
EXP 03/15/22

Form containing fields for Relinquished By, Date, Time, Received By, Date, Time, REPORT TRANSMITTAL DESIRED (HARDCOPY, FAX, EMAIL, ONLINE), FOR LAB USE ONLY (Temp of samples, Attempt to Cool?), and TAT (Standard, RUSH) options.

