2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3044 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 30.58 " Longitude: 76 ° 26 ' 11.25 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 11:16 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/24/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	14.4	EPA 200.7
CALCIUM, DISSOLVED	15.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.1	EPA 200.7
MAGNESIUM, DISSOLVED	11	EPA 200.7
MANGANESE, TOTAL (ug/l)	12	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	12	EPA 200.7
NITRATE-NITROGEN	18.7	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.14	FIELD
pH-LAB (SU)	6.95	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	2.3	EPA 200.7
SODIUM, TOTAL	9	EPA 200.7
SODIUM, DISSOLVED	9.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	234	FIELD
SPEC. COND., LAB (umhos/cm)	236	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	167	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.55	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: MILLER

Address: 3052 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 29.85 " Longitude: 76 o 26 ' 11.45 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 11:25 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/25/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS MILLER

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	10	SM20-2321
CALCIUM, TOTAL	15.2	EPA 200.7
CALCIUM, DISSOLVED	17	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.2	EPA 200.7
MAGNESIUM, DISSOLVED	9.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	32	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	28	EPA 200.7
NITRATE-NITROGEN	17.7	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS MILLER

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.24	FIELD
pH-LAB (SU)	6.68	SM4500B
POTASSIUM, TOTAL	1.9	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	7.8	EPA 200.7
SODIUM, DISSOLVED	7.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	289	FIELD
SPEC. COND., LAB (umhos/cm)	226	EPA 120.1
SULFATE	2.3	EPA 300
ALKALINITY	10	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	155	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.85	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS MILLER

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3056 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 28.44 " Longitude: 76 o 26 ' 10.43 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 11:43 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/26/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	12.1	EPA 200.7
CALCIUM, DISSOLVED	12.9	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	22.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.3	EPA 200.7
MAGNESIUM, DISSOLVED	12	EPA 200.7
MANGANESE, TOTAL (ug/l)	60	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	64	EPA 200.7
NITRATE-NITROGEN	17.8	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.52	FIELD
pH-LAB (SU)	6.62	SM4500B
POTASSIUM, TOTAL	2.2	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	8.3	EPA 200.7
SODIUM, DISSOLVED	8.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	310	FIELD
SPEC. COND., LAB (umhos/cm)	233	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	157	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	2.4	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3060 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 27.63 " Longitude: 76 o 26 ' 10.01 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 11:55 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/26/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	9.9	EPA 200.7
CALCIUM, DISSOLVED	10.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	16.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.2	EPA 200.7
MAGNESIUM, DISSOLVED	11.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	83	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	80	EPA 200.7
NITRATE-NITROGEN	15.6	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.32	FIELD
pH-LAB (SU)	6.54	SM4500B
POTASSIUM, TOTAL	2.7	EPA 200.7
POTASSIUM, DISSOLVED	2.9	EPA 200.7
SODIUM, TOTAL	8.4	EPA 200.7
SODIUM, DISSOLVED	8.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	357	FIELD
SPEC. COND., LAB (umhos/cm)	215	EPA 120.1
SULFATE	10	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	124	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.5	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: SENSENICH

Address: 3076 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 28.2 " Longitude: 76 o 26 ' 11.1 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 12:11 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/25/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS SENSENICH

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	23	SM20-2321
CALCIUM, TOTAL	13.1	EPA 200.7
CALCIUM, DISSOLVED	14.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	58.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	78	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8	EPA 200.7
MAGNESIUM, DISSOLVED	8.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	140	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	140	EPA 200.7
NITRATE-NITROGEN	8.3	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS SENSENICH

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.2	FIELD
pH-LAB (SU)	7.11	SM4500B
POTASSIUM, TOTAL	3.1	EPA 200.7
POTASSIUM, DISSOLVED	3.4	EPA 200.7
SODIUM, TOTAL	25.9	EPA 200.7
SODIUM, DISSOLVED	27.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	261	FIELD
SPEC. COND., LAB (umhos/cm)	324	EPA 120.1
SULFATE	14.6	EPA 300
ALKALINITY	23	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	194	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	7.2	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS SENSENICH

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3079 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 21.99 " Longitude: 76 o 26 ' 10.58 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 1:50 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/25/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	25	SM20-2321
CALCIUM, TOTAL	9.9	EPA 200.7
CALCIUM, DISSOLVED	10.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	31.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	5.8	EPA 200.7
MAGNESIUM, DISSOLVED	6.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	20	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	21	EPA 200.7
NITRATE-NITROGEN	1.5	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.81	FIELD
pH-LAB (SU)	7.11	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	2.2	EPA 200.7
SODIUM, TOTAL	13.9	EPA 200.7
SODIUM, DISSOLVED	13.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	779	FIELD
SPEC. COND., LAB (umhos/cm)	182	EPA 120.1
SULFATE	11.3	EPA 300
ALKALINITY	25	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	121	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.35	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: WEBER

Address: 3088 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 21 " Longitude: 76 o 26 ' 7.1 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 12:26 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/24/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS WEBER

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	151	SM20-2321
CALCIUM, TOTAL	16.9	EPA 200.7
CALCIUM, DISSOLVED	23.8	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	187	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	6.4	EPA 200.7
MAGNESIUM, DISSOLVED	9.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	17	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	22	EPA 200.7
NITRATE-NITROGEN	3.9	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS WEBER

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.06	FIELD
pH-LAB (SU)	8.07	SM4500B
POTASSIUM, TOTAL	13.3	EPA 200.7
POTASSIUM, DISSOLVED	13	EPA 200.7
SODIUM, TOTAL	143	EPA 200.7
SODIUM, DISSOLVED	142	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	805	FIELD
SPEC. COND., LAB (umhos/cm)	878	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	151	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	482	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.65	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS WEBER

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: KIRCHNER

Address: 3100 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 17.9 " Longitude: 76 o 26 ' 6.28 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 12:58 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/24/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS KIRCHNER

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	18	SM20-2321
CALCIUM, TOTAL	14.3	EPA 200.7
CALCIUM, DISSOLVED	15.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	57.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	7.8	EPA 200.7
MAGNESIUM, DISSOLVED	8.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	13	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	12	EPA 200.7
NITRATE-NITROGEN	4.1	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS KIRCHNER

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.99	FIELD
pH-LAB (SU)	6.99	SM4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	20.1	EPA 200.7
SODIUM, DISSOLVED	20.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	251	FIELD
SPEC. COND., LAB (umhos/cm)	264	EPA 120.1
SULFATE	6.1	EPA 300
ALKALINITY	18	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	171	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.5	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS KIRCHNER

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: FRY

Address: 3106 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 17.27 " Longitude: 76 o 26 ' 5.6 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 2:44 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/21/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS FRY

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	18	SM20-2321
CALCIUM, TOTAL	24.3	EPA 200.7
CALCIUM, DISSOLVED	26.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	140	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	16.6	EPA 200.7
MAGNESIUM, DISSOLVED	17.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	48	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	50	EPA 200.7
NITRATE-NITROGEN	10.1	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS FRY

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.12	FIELD
pH-LAB (SU)	7.07	SM4500B
POTASSIUM, TOTAL	2.4	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	50.4	EPA 200.7
SODIUM, DISSOLVED	52	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	385	FIELD
SPEC. COND., LAB (umhos/cm)	565	EPA 120.1
SULFATE	6.5	EPA 300
ALKALINITY	18	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	298	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.53	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.2	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS FRY

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/29/2025
DEP USE ONLY
Date Received

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: BECK

Address: 3125 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 o 57 ' 11.6 " Longitude: 76 o 26 ' 5.4 "

Depth to Water Level: ft. Measured from: [X] Land Surface [ ] TOC

Casing Stick Up: ft. Elevation of Water Level: ft./MSL

Total Well Depth: ft.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 02/07/2025 Sample Collection Time: 2:53 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 02/24/2025

Were any holding times exceeded?: Yes X No If yes, please explain in comments field.

Comments:

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS BECK

Sample Date: 02/07/2025

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	170	SM20-2321
CALCIUM, TOTAL	12.7	EPA 200.7
CALCIUM, DISSOLVED	12.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	78.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	2.1	EPA 200.7
MAGNESIUM, DISSOLVED	2	EPA 200.7
MANGANESE, TOTAL (ug/l)	8.5	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	7.1	EPA 200.7
NITRATE-NITROGEN	5.4	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS BECK

Sample Date: 02/07/2025

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.11	FIELD
pH-LAB (SU)	8.07	SM4500B
POTASSIUM, TOTAL	1.4	EPA 200.7
POTASSIUM, DISSOLVED	1	EPA 200.7
SODIUM, TOTAL	114	EPA 200.7
SODIUM, DISSOLVED	112	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	720	FIELD
SPEC. COND., LAB (umhos/cm)	594	EPA 120.1
SULFATE	8.6	EPA 300
ALKALINITY	170	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	390	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.7	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS BECK

Sample Date: 02/07/2025

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3125 RIVER RD
Workorder 3399722
Report ID 390383 on 2/25/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399722001	3125 River Road, Conestoga, PA	Water	02/07/2025 14:53	02/07/2025 16:20	BGS	Analytical Laboratory Service
3399722002	Trip Blank	Water	02/07/2025 16:20	02/07/2025 16:20	BGS	Analytical Laboratory Service
3399722004	Field Blank	Water	02/07/2025 15:00	02/11/2025 16:00	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3125 River Road, Conestoga, PA	Collected	02/07/2025 14:53
Lab Sample ID	3399722001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	8.11	pH_Units		Field	#
Specific Conductance, Field	720	umhos/cm	1	Field	#
Temperature	13.44	Deg. C		Field	#
METALS					
Calcium, Dissolved	12.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	12.7	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	2.0	mg/L	0.10	EPA 200.7	#
Magnesium, Total	2.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.0071	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.0085	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.0	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	112	mg/L	0.50	EPA 200.7	#
Sodium, Total	114	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	170	mg/L	5	SM2320B-2011	#
Alkalinity, Total	170	mg/L	5	SM2320B-2011	#
Chloride	78.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.4	mg/L	1.0	EPA 300.0	#
pH	8.07	pH_Units		S4500HB-11	#
Specific Conductance	594	umhos/cm	5	SM2510B-2011	#
Sulfate	8.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	390	mg/L	25	SM2540C-15	#
Turbidity	0.70	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	02/07/2025 14:53
Lab Sample ID	3399722001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	8.11		pH_Units		Field	1	02/07/2025 14:53	BGS	P
Specific Conductance, Field	720		umhos/cm	1	Field	1	02/07/2025 14:53	BGS	P
Temperature	13.44		Deg. C		Field	1	02/07/2025 14:53	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	12.3		mg/L	0.10	EPA 200.7	1	02/19/2025 09:28	MSY	F
Calcium, Total	12.7	3	mg/L	0.050	EPA 200.7	1	02/20/2025 14:12	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:28	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2025 14:12	MSY	D1
Magnesium, Dissolved	2.0		mg/L	0.10	EPA 200.7	1	02/19/2025 09:28	MSY	F
Magnesium, Total	2.1		mg/L	0.050	EPA 200.7	1	02/20/2025 14:12	MSY	D1
Manganese, Dissolved	0.0071		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:28	MSY	F
Manganese, Total	0.0085		mg/L	0.0025	EPA 200.7	1	02/20/2025 14:12	MSY	D1
Potassium, Dissolved	1.0		mg/L	0.50	EPA 200.7	1	02/19/2025 09:28	MSY	F
Potassium, Total	1.4		mg/L	0.25	EPA 200.7	1	02/20/2025 14:12	MSY	D1
Sodium, Dissolved	112		mg/L	0.50	EPA 200.7	1	02/19/2025 09:28	MSY	F
Sodium, Total	114		mg/L	0.25	EPA 200.7	1	02/20/2025 14:12	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:31	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	115%	70 – 130	02/18/2025 13:31	

WET CHEMISTRY

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	02/07/2025 14:53
Lab Sample ID	3399722001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	170		mg/L	5	SM2320B-2011	1	02/13/2025 21:24	JXK	A
Alkalinity, Total	170	1	mg/L	5	SM2320B-2011	1	02/13/2025 21:24	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 16:15	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	78.8		mg/L	2.0	EPA 300.0	2	02/08/2025 14:48	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 14:48	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/24/2025 17:31	PAG	K
Nitrate-N	5.4		mg/L	1.0	EPA 300.0	2	02/08/2025 14:48	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 14:48	GMM	A
pH	8.07	2	pH_Units		S4500HB-11	1	02/13/2025 21:24	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:05	AKH	J
Specific Conductance	594		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	8.6		mg/L	2.0	EPA 300.0	2	02/08/2025 14:48	GMM	A
Total Dissolved Solids	390		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.70		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Results

Client Sample ID	Trip Blank	Collected	02/07/2025 16:20
Lab Sample ID	3399722002	Lab Receipt	02/07/2025 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:05	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	90.3%	70 – 130	02/18/2025 12:05	

Results

Client Sample ID	Field Blank	Collected	02/07/2025 15:00
Lab Sample ID	3399722004	Lab Receipt	02/11/2025 16:00

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 12:33	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	120%	70 – 130	02/18/2025 12:33	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399722001	3125 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3399722002	Trip Blank	EPA 524.2	N/A	
3399722004	Field Blank	EPA 524.2	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399722001	3125 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387495	02/11/2025 08:55	NBU	EPA 200.7	1394611
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392873
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397702
3399722002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1392873
3399722004	Field Blank	N/A	N/A	N/A		EPA 524.2	1392873

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399722
Logged By: SLS
PM: SJB

2 of

(Receiving Lab)

Client Name: LCSWMA Christian C. Beck

Address: 3125 River Rd
Conestoga Pa 17516

Contact: Christian C Beck
Phone#: 717-871-0448
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?
Email? [ ]

Container Type	AG	AN	AN	CG		P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3125RIVERRD	2/7/25	1453		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1620		G	Di				2						
3	Field Blank	2/7/25	1500		G	Di				2	Did not receive DAG 2/7/25					
4																
5											received 2/11/25			gw 2/12/25		
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: [signature] ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1620	1	[signature] ALS	2	DAG ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3399722

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/7/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement		X		
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers		X		
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

Field Blank received From Field services, email From Brian Shade 2/11/25 - gw 2/12/25

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025 3044 RIVER RD
Workorder 3399730
Report ID 390382 on 2/25/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399730001	3044 River Road, Conestoga, PA	Water	02/07/2025 11:16	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3044 River Road, Conestoga, PA	Collected	02/07/2025 11:16
Lab Sample ID	3399730001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.14	pH_Units		Field	#
Specific Conductance, Field	234	umhos/cm	1	Field	#
Temperature	13.34	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	14.4	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.0	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.012	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.012	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.3	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	9.1	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.0	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	11	mg/L	5	SM2320B-2011	#
Alkalinity, Total	11	mg/L	5	SM2320B-2011	#
Chloride	19.5	mg/L	2.0	EPA 300.0	#
Nitrate-N	18.7	mg/L	1.0	EPA 300.0	#
pH	6.95	pH_Units		S4500HB-11	#
Specific Conductance	236	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	167	mg/L	25	SM2540C-15	#
Turbidity	0.55	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	02/07/2025 11:16
Lab Sample ID	3399730001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.14		pH_Units		Field	1	02/07/2025 11:16	BGS	P
Specific Conductance, Field	234		umhos/cm	1	Field	1	02/07/2025 11:16	BGS	P
Temperature	13.34		Deg. C		Field	1	02/07/2025 11:16	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.4		mg/L	0.10	EPA 200.7	1	02/19/2025 09:10	MSY	F
Calcium, Total	14.4		mg/L	0.050	EPA 200.7	1	02/21/2025 10:30	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:10	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:30	MSY	D1
Magnesium, Dissolved	11.0		mg/L	0.10	EPA 200.7	1	02/19/2025 09:10	MSY	F
Magnesium, Total	10.1		mg/L	0.050	EPA 200.7	1	02/21/2025 10:30	MSY	D1
Manganese, Dissolved	0.012		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:10	MSY	F
Manganese, Total	0.012		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:30	MSY	D1
Potassium, Dissolved	2.3		mg/L	0.50	EPA 200.7	1	02/19/2025 09:10	MSY	F
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	02/21/2025 10:30	MSY	D1
Sodium, Dissolved	9.1		mg/L	0.50	EPA 200.7	1	02/19/2025 09:10	MSY	F
Sodium, Total	9.0		mg/L	0.25	EPA 200.7	1	02/21/2025 10:30	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:25	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	88%	70 – 130	02/19/2025 01:25	

WET CHEMISTRY

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	02/07/2025 11:16
Lab Sample ID	3399730001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	11		mg/L	5	SM2320B-2011	1	02/13/2025 22:03	JXK	A
Alkalinity, Total	11	1	mg/L	5	SM2320B-2011	1	02/13/2025 22:03	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:17	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	19.5		mg/L	2.0	EPA 300.0	2	02/08/2025 15:22	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 15:22	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/24/2025 17:31	PAG	K
Nitrate-N	18.7		mg/L	1.0	EPA 300.0	2	02/08/2025 15:22	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 15:22	GMM	A
pH	6.95	2	pH_Units		S4500HB-11	1	02/13/2025 22:03	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:32	AKH	J
Specific Conductance	236		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	02/08/2025 15:22	GMM	A
Total Dissolved Solids	167		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.55		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399730001	3044 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399730001	3044 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397702

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399730

Logged By: SLS
PM: SJB

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike PO Box 4424
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	AG	AN	AN	CG	P	P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml	500ml	250ml	125ml	125ml	1L	
	Preservative	HCL	H2SO4	H2SO4	ASCHCL	UNP	H2SO4	HNO3	HNO3	UNP	

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	Alkalinity, HCO3	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	
	Enter Number of Containers Per Sample or Field Results Below.						2	2	1	3	1	1	2	2	1	
1	3044RIVERRD	2/7/25	1116		G	DW				2# DAG 2/7/25						
2	Trip Blank	2/7/25	1620		G	Di										
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: [illegible] ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2/7/25	1620	1	[illegible] ALS	2	DAG ALS
		3		4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

(Receiving Lab)
Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by:
WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?
PWSID #
PWS Contact: PWS Phone #:

Rad Screen (uCi)
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

Middletown Sample Condition Form

Client Lancaster County Workorder 3399730

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/6/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement		X		
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers		X		UC
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025 3052 RIVER RD
Workorder 3399731
Report ID 391034 on 2/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399731001	3052 River Road, Conestoga, PA	Water	02/07/2025 11:25	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3052 River Road, Conestoga, PA	Collected	02/07/2025 11:25
Lab Sample ID	3399731001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	7.24	pH_Units		Field	#
Specific Conductance, Field	289	umhos/cm	1	Field	#
Temperature	13.57	Deg. C		Field	#
METALS					
Calcium, Dissolved	17.0	mg/L	0.10	EPA 200.7	#
Calcium, Total	15.2	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	9.2	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.028	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.032	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.9	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.9	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	7.9	mg/L	0.50	EPA 200.7	#
Sodium, Total	7.8	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	10	mg/L	5	SM2320B-2011	#
Alkalinity, Total	10	mg/L	5	SM2320B-2011	#
Chloride	19.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.7	mg/L	1.0	EPA 300.0	#
pH	6.68	pH_Units		S4500HB-11	#
Specific Conductance	226	umhos/cm	5	SM2510B-2011	#
Sulfate	2.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	155	mg/L	25	SM2540C-15	#
Turbidity	0.85	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	02/07/2025 11:25
Lab Sample ID	3399731001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	7.24		pH_Units		Field	1	02/07/2025 11:25	BGS	P
Specific Conductance, Field	289		umhos/cm	1	Field	1	02/07/2025 11:25	BGS	P
Temperature	13.57		Deg. C		Field	1	02/07/2025 11:25	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	17.0		mg/L	0.10	EPA 200.7	1	02/19/2025 09:24	MSY	F
Calcium, Total	15.2		mg/L	0.050	EPA 200.7	1	02/21/2025 10:31	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:24	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:31	MSY	D1
Magnesium, Dissolved	9.8		mg/L	0.10	EPA 200.7	1	02/19/2025 09:24	MSY	F
Magnesium, Total	9.2		mg/L	0.050	EPA 200.7	1	02/21/2025 10:31	MSY	D1
Manganese, Dissolved	0.028		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:24	MSY	F
Manganese, Total	0.032		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:31	MSY	D1
Potassium, Dissolved	1.9		mg/L	0.50	EPA 200.7	1	02/19/2025 09:24	MSY	F
Potassium, Total	1.9		mg/L	0.25	EPA 200.7	1	02/21/2025 10:31	MSY	D1
Sodium, Dissolved	7.9		mg/L	0.50	EPA 200.7	1	02/19/2025 09:24	MSY	F
Sodium, Total	7.8		mg/L	0.25	EPA 200.7	1	02/21/2025 10:31	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 01:48	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	87.5%	70 – 130	02/19/2025 01:48	

WET CHEMISTRY

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	02/07/2025 11:25
Lab Sample ID	3399731001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	10		mg/L	5	SM2320B-2011	1	02/13/2025 22:14	JXK	A
Alkalinity, Total	10	1	mg/L	5	SM2320B-2011	1	02/13/2025 22:14	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:36	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	19.8		mg/L	2.0	EPA 300.0	2	02/08/2025 15:45	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 15:45	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/25/2025 17:10	PAG	K
Nitrate-N	17.7		mg/L	1.0	EPA 300.0	2	02/08/2025 15:45	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 15:45	GMM	A
pH	6.68	2	pH_Units		S4500HB-11	1	02/13/2025 22:14	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 13:14	AKH	J
Specific Conductance	226		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	2.3		mg/L	2.0	EPA 300.0	2	02/08/2025 15:45	GMM	A
Total Dissolved Solids	155		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.85		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399731001	3052 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399731001	3052 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397875

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399731
Logged By: SLS
PM: SJB

of

Client Name: LCSWMA Gerald E Miller Sr

Address: 3052 River Rd
Conestoga PA 17516

Contact: Gerald E Miller Sr
Phone#: 717-872-5117
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
	Enter Number of Containers Per Sample or Field Results Below.						2	2	1	3	x	1	2	2	1	1
1	3052RIVERRD	2/7/25	1125		G	DW				2						
2	Trip Blank	2/7/25	(EST)		G	Di										
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__
PWS Contact:_____ PWS Phone #:_____

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Cycle Sample Collector: ALS Tech / Client
Name: [signature]
ID:

Comments:

	Date	Time		Relinquished By / Company Name		Received By / Company Name
	2/7/25	1620	1	[signature] ALS	2	DAGLAS
			3		4	
			5		6	
			7		8	
			9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Middletown Sample Condition Form

Client LCSWMA Workorder 3399731

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement •Sample location •Date and time of sample collection •Type(s) of preservation •Number of containers •Composite or grab •Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3056 RIVER RD
Workorder 3399734
Report ID 391024 on 2/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer
Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399734001	3056RIVERRD	Water	02/07/2025 11:43	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3056RIVERRD	Collected	02/07/2025 11:43
Lab Sample ID	3399734001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.52	pH_Units		Field	#
Specific Conductance, Field	310	umhos/cm	1	Field	#
Temperature	13.48	Deg. C		Field	#
METALS					
Calcium, Dissolved	12.9	mg/L	0.10	EPA 200.7	#
Calcium, Total	12.1	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	12.0	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.064	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.060	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.2	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.4	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.3	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	6	mg/L	5	SM2320B-2011	#
Alkalinity, Total	6	mg/L	5	SM2320B-2011	#
Chloride	22.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.8	mg/L	1.0	EPA 300.0	#
pH	6.62	pH_Units		S4500HB-11	#
Specific Conductance	233	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	157	mg/L	25	SM2540C-15	#
Turbidity	2.4	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3056RIVERRD	Collected	02/07/2025 11:43
Lab Sample ID	3399734001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.52		pH_Units		Field	1	02/07/2025 11:43	BGS	P
Specific Conductance, Field	310		umhos/cm	1	Field	1	02/07/2025 11:43	BGS	P
Temperature	13.48		Deg. C		Field	1	02/07/2025 11:43	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	12.9		mg/L	0.10	EPA 200.7	1	02/19/2025 09:12	MSY	F
Calcium, Total	12.1		mg/L	0.050	EPA 200.7	1	02/21/2025 10:41	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:12	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:41	MSY	D1
Magnesium, Dissolved	12.0		mg/L	0.10	EPA 200.7	1	02/19/2025 09:12	MSY	F
Magnesium, Total	11.3		mg/L	0.050	EPA 200.7	1	02/21/2025 10:41	MSY	D1
Manganese, Dissolved	0.064		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:12	MSY	F
Manganese, Total	0.060		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:41	MSY	D1
Potassium, Dissolved	2.4		mg/L	0.50	EPA 200.7	1	02/19/2025 09:12	MSY	F
Potassium, Total	2.2		mg/L	0.25	EPA 200.7	1	02/21/2025 10:41	MSY	D1
Sodium, Dissolved	8.4		mg/L	0.50	EPA 200.7	1	02/19/2025 09:12	MSY	F
Sodium, Total	8.3		mg/L	0.25	EPA 200.7	1	02/21/2025 10:41	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:08	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	87.1%	70 – 130	02/19/2025 04:08	

WET CHEMISTRY

Results

Client Sample ID	3056RIVERRD	Collected	02/07/2025 11:43
Lab Sample ID	3399734001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	6		mg/L	5	SM2320B-2011	1	02/13/2025 23:31	JXK	A
Alkalinity, Total	6	1	mg/L	5	SM2320B-2011	1	02/13/2025 23:31	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:30	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	22.9		mg/L	2.0	EPA 300.0	2	02/08/2025 17:05	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 17:05	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/26/2025 17:52	PAG	K
Nitrate-N	17.8		mg/L	1.0	EPA 300.0	2	02/08/2025 17:05	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 17:05	GMM	A
pH	6.62	2	pH_Units		S4500HB-11	1	02/13/2025 23:31	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:24	AKH	J
Specific Conductance	233		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	02/08/2025 17:05	GMM	A
Total Dissolved Solids	157		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	2.4		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399734001	3056RIVERRD	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399734001	3056RIVERRD	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1398305

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399734
Logged By: SLS
PM: SJB

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike PO Box 4424
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT
[x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP
	Orthophosphate Filtered?		Yes	No	Hexavalent Chromium Filtered?					Yes	No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3056RIVERRD	2/7/25	1143		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: [signature] ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1620	1	[signature] ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

(Receiving Lab)
Temp Taken By: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA	Deviations? NO YES
Sample Custody Seal Intact	Y	N	NA	If YES, llist below:
Received on Ice	Y	N	NA	
Coolers & Samples Intact	Y	N		
Correct Containers Provided	Y	N		
Sample Label/COC Agree	Y	N		
Adequate Sample Volumes	Y	N		
VOA only: Trip Blank	Y	N	NA	
NJ ≤ 4 days?	Y	N		Client contact:
Courier/Tracking #				Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
___ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client Lancaster County Workorder 3399734

Temp °C 6 Therm ID S24 Ice? (Y) N N/A Initials & Date DAG 2/7/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers	X			
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3060 RIVER RD
Workorder 3399735
Report ID 391026 on 2/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399735001	3060RIVERRD	Water	02/07/2025 11:55	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3060RIVERRD	Collected	02/07/2025 11:55
Lab Sample ID	3399735001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.32	pH_Units		Field	#
Specific Conductance, Field	357	umhos/cm	1	Field	#
Temperature	13.37	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	9.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.1	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.2	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.080	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.083	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.9	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.4	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.4	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	6	mg/L	5	SM2320B-2011	#
Alkalinity, Total	6	mg/L	5	SM2320B-2011	#
Chloride	16.5	mg/L	2.0	EPA 300.0	#
Nitrate-N	15.6	mg/L	1.0	EPA 300.0	#
pH	6.54	pH_Units		S4500HB-11	#
Specific Conductance	215	umhos/cm	5	SM2510B-2011	#
Sulfate	10	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	124	mg/L	25	SM2540C-15	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3060RIVERRD	Collected	02/07/2025 11:55
Lab Sample ID	3399735001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.32		pH_Units		Field	1	02/07/2025 11:55	BGS	P
Specific Conductance, Field	357		umhos/cm	1	Field	1	02/07/2025 11:55	BGS	P
Temperature	13.37		Deg. C		Field	1	02/07/2025 11:55	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.3		mg/L	0.10	EPA 200.7	1	02/19/2025 09:27	MSY	F
Calcium, Total	9.9		mg/L	0.050	EPA 200.7	1	02/21/2025 10:42	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:27	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:42	MSY	D1
Magnesium, Dissolved	11.1		mg/L	0.10	EPA 200.7	1	02/19/2025 09:27	MSY	F
Magnesium, Total	10.2		mg/L	0.050	EPA 200.7	1	02/21/2025 10:42	MSY	D1
Manganese, Dissolved	0.080		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:27	MSY	F
Manganese, Total	0.083		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:42	MSY	D1
Potassium, Dissolved	2.9		mg/L	0.50	EPA 200.7	1	02/19/2025 09:27	MSY	F
Potassium, Total	2.7		mg/L	0.25	EPA 200.7	1	02/21/2025 10:42	MSY	D1
Sodium, Dissolved	8.4		mg/L	0.50	EPA 200.7	1	02/19/2025 09:27	MSY	F
Sodium, Total	8.4		mg/L	0.25	EPA 200.7	1	02/21/2025 10:42	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 04:31	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	88.9%	70 – 130	02/19/2025 04:31	

WET CHEMISTRY

Results

Client Sample ID	3060RIVERRD	Collected	02/07/2025 11:55
Lab Sample ID	3399735001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	6		mg/L	5	SM2320B-2011	1	02/13/2025 23:42	JXK	A
Alkalinity, Total	6	1	mg/L	5	SM2320B-2011	1	02/13/2025 23:42	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:33	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	16.5		mg/L	2.0	EPA 300.0	2	02/08/2025 17:16	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 17:16	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/26/2025 17:52	PAG	K
Nitrate-N	15.6		mg/L	1.0	EPA 300.0	2	02/08/2025 17:16	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 17:16	GMM	A
pH	6.54	2	pH_Units		S4500HB-11	1	02/13/2025 23:42	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 13:11	AKH	J
Specific Conductance	215		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	10		mg/L	2.0	EPA 300.0	2	02/08/2025 17:16	GMM	A
Total Dissolved Solids	124		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399735001	3060RIVERRD	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399735001	3060RIVERRD	N/A	N/A	N/A		Field	1390090
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1398305

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3399735

Logged By: SLS
PM: SJB

of

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike PO Box 4424
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3060RIVERRD	2/7/25	1155		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	N/A		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: KS Shadle ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-24	1620	1	KS Shadle ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, llist below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__
PWS Contact:_____ PWS Phone #:_____

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL ____ other

Middletown Sample Condition Form

Client Lancaster County Workorder 3399735

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/7/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact				
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement •Sample location •Date and time of sample collection •Type(s) of preservation •Number of containers •Composite or grab •Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days				
CR6 Samples Filtered				
OP Samples Filtered				
WV Containers 0-6°C				
SDWA compliance reporting				

[1] *If No, provide comment*

Rad Screen (uCi) ~ _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3076 RIVER RD
Workorder 3399732
Report ID 391032 on 2/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (Project Coordinator) at (717) 944-5541.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399732001	3076 River Road, Conestoga, PA	Water	02/07/2025 12:11	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

Notes

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  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
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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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3076 River Road, Conestoga, PA	Collected	02/07/2025 12:11
Lab Sample ID	3399732001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.20	pH_Units		Field	#
Specific Conductance, Field	261	umhos/cm	1	Field	#
Temperature	14.11	Deg. C		Field	#
METALS					
Calcium, Dissolved	14.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.1	mg/L	0.050	EPA 200.7	#
Iron, Total	0.078	mg/L	0.030	EPA 200.7	#
Magnesium, Dissolved	8.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.0	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.14	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.14	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	3.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.1	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	27.2	mg/L	0.50	EPA 200.7	#
Sodium, Total	25.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	23	mg/L	5	SM2320B-2011	#
Alkalinity, Total	23	mg/L	5	SM2320B-2011	#
Chloride	58.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	8.3	mg/L	1.0	EPA 300.0	#
pH	7.11	pH_Units		S4500HB-11	#
Specific Conductance	324	umhos/cm	5	SM2510B-2011	#
Sulfate	14.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	194	mg/L	25	SM2540C-15	#
Turbidity	7.2	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	02/07/2025 12:11
Lab Sample ID	3399732001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.20		pH_Units		Field	1	02/07/2025 12:11	BGS	P
Specific Conductance, Field	261		umhos/cm	1	Field	1	02/07/2025 12:11	BGS	P
Temperature	14.11		Deg. C		Field	1	02/07/2025 12:11	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	14.3		mg/L	0.10	EPA 200.7	1	02/19/2025 09:13	MSY	F
Calcium, Total	13.1		mg/L	0.050	EPA 200.7	1	02/21/2025 10:32	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:13	MSY	F
Iron, Total	0.078		mg/L	0.030	EPA 200.7	1	02/21/2025 10:32	MSY	D1
Magnesium, Dissolved	8.8		mg/L	0.10	EPA 200.7	1	02/19/2025 09:13	MSY	F
Magnesium, Total	8.0		mg/L	0.050	EPA 200.7	1	02/21/2025 10:32	MSY	D1
Manganese, Dissolved	0.14		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:13	MSY	F
Manganese, Total	0.14		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:32	MSY	D1
Potassium, Dissolved	3.4		mg/L	0.50	EPA 200.7	1	02/19/2025 09:13	MSY	F
Potassium, Total	3.1		mg/L	0.25	EPA 200.7	1	02/21/2025 10:32	MSY	D1
Sodium, Dissolved	27.2		mg/L	0.50	EPA 200.7	1	02/19/2025 09:13	MSY	F
Sodium, Total	25.9		mg/L	0.25	EPA 200.7	1	02/21/2025 10:32	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:21	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	87.3%	70 – 130	02/19/2025 03:21	

WET CHEMISTRY

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	02/07/2025 12:11
Lab Sample ID	3399732001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	23		mg/L	5	SM2320B-2011	1	02/13/2025 23:05	JXK	A
Alkalinity, Total	23	1	mg/L	5	SM2320B-2011	1	02/13/2025 23:05	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:24	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	58.6		mg/L	2.0	EPA 300.0	2	02/08/2025 16:42	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 16:42	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/25/2025 17:10	PAG	K
Nitrate-N	8.3		mg/L	1.0	EPA 300.0	2	02/08/2025 16:42	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 16:42	GMM	A
pH	7.11	2	pH_Units		S4500HB-11	1	02/13/2025 23:05	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 13:08	AKH	J
Specific Conductance	324		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	14.6		mg/L	2.0	EPA 300.0	2	02/08/2025 16:42	GMM	A
Total Dissolved Solids	194		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	7.2		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399732001	3076 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399732001	3076 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397875

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399732
Logged By: SLS
PM: SJB

of

Client Name: LCSWMA Brian Sensenich

Address: 3076 River Rd
Conestoga PA 17516

Contact: Brian Sensenich
Phone#: 717-676-5779
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Biran Sensenich
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F , SpC,Tb	Alkalinity, HCO3
	Enter Number of Containers Per Sample or Field Results Below.															
1	3076RIVERRD	2/7/25	1211		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1220		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: AW Shade ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1600	1	AW Shade ALS	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

(ceiving Lab)
Temp Taken By: WO Temp (°C)

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, llist below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__
PWS Contact:_____ PWS Phone #:_____

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

Middletown Sample Condition Form

Client LCSWMA Workorder 3399732

Temp °C 5 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers	X			
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3079 RIVER RD
Workorder 3399733
Report ID 391045 on 2/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer
Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399733001	3079RIVERRD	Water	02/07/2025 13:50	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3079RIVERRD	Collected	02/07/2025 13:50
Lab Sample ID	3399733001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.81	pH_Units		Field	#
Specific Conductance, Field	779	umhos/cm	1	Field	#
Temperature	15.74	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.2	mg/L	0.10	EPA 200.7	#
Calcium, Total	9.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	6.2	mg/L	0.10	EPA 200.7	#
Magnesium, Total	5.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.021	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.020	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.2	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.0	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	13.9	mg/L	0.50	EPA 200.7	#
Sodium, Total	13.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	25	mg/L	5	SM2320B-2011	#
Alkalinity, Total	25	mg/L	5	SM2320B-2011	#
Chloride	31.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.5	mg/L	1.0	EPA 300.0	#
pH	7.11	pH_Units		S4500HB-11	#
Specific Conductance	182	umhos/cm	5	SM2510B-2011	#
Sulfate	11.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	121	mg/L	25	SM2540C-15	#
Turbidity	0.35	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3079RIVERRD	Collected	02/07/2025 13:50
Lab Sample ID	3399733001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.81		pH_Units		Field	1	02/07/2025 13:50	BGS	P
Specific Conductance, Field	779		umhos/cm	1	Field	1	02/07/2025 13:50	BGS	P
Temperature	15.74		Deg. C		Field	1	02/07/2025 13:50	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.2		mg/L	0.10	EPA 200.7	1	02/19/2025 09:11	MSY	F
Calcium, Total	9.9		mg/L	0.050	EPA 200.7	1	02/21/2025 10:39	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:11	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:39	MSY	D1
Magnesium, Dissolved	6.2		mg/L	0.10	EPA 200.7	1	02/19/2025 09:11	MSY	F
Magnesium, Total	5.8		mg/L	0.050	EPA 200.7	1	02/21/2025 10:39	MSY	D1
Manganese, Dissolved	0.021		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:11	MSY	F
Manganese, Total	0.020		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:39	MSY	D1
Potassium, Dissolved	2.2		mg/L	0.50	EPA 200.7	1	02/19/2025 09:11	MSY	F
Potassium, Total	2.0		mg/L	0.25	EPA 200.7	1	02/21/2025 10:39	MSY	D1
Sodium, Dissolved	13.9		mg/L	0.50	EPA 200.7	1	02/19/2025 09:11	MSY	F
Sodium, Total	13.9		mg/L	0.25	EPA 200.7	1	02/21/2025 10:39	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2025 03:44	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	90%	70 – 130	02/19/2025 03:44	

WET CHEMISTRY

Results

Client Sample ID	3079RIVERRD	Collected	02/07/2025 13:50
Lab Sample ID	3399733001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	25		mg/L	5	SM2320B-2011	1	02/13/2025 23:18	JXK	A
Alkalinity, Total	25	1	mg/L	5	SM2320B-2011	1	02/13/2025 23:18	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 15:27	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	31.1		mg/L	2.0	EPA 300.0	2	02/08/2025 16:53	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 16:53	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/25/2025 17:10	PAG	K
Nitrate-N	1.5		mg/L	1.0	EPA 300.0	2	02/08/2025 16:53	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 16:53	GMM	A
pH	7.11	2	pH_Units		S4500HB-11	1	02/13/2025 23:18	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 13:04	AKH	J
Specific Conductance	182		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	11.3		mg/L	2.0	EPA 300.0	2	02/08/2025 16:53	GMM	A
Total Dissolved Solids	121		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.35		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399733001	3079RIVERRD	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399733001	3079RIVERRD	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392964
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397875

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3399733
Logged By: SLS
PM: SJB

13 of

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

(Lab Use Only) by Receiving Lab)

WO Temp (°C)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike PO Box 4424
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP
	Orthophosphate Filtered?		Yes		No	Hexavalent Chromium Filtered?				Yes	No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3079RIVERRD	2/7/25	1350		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, llist below.

Client contact:
Date/Tech

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: [signature] **ID:**

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1620	1	[signature] ANW	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables

[ ] Standard Lvl 1	[ ] CLP-like	[ ] HSCA	
[ ] Standard Lvl 2	[ ] DOD	[ ] Landfill	
[ ] Standard Lvl 3	[ ] NJ RED	[ ] NJ GW	
[ ] Standard Lvl 4	[ ] NJ Full	[ ] _____	

EDDs

[ ] Excel Summary	**Sample Disposal**	
[ ] Equis	Lab	[x]
[ ] Custom	Special	[ ]

EDDS: Format Type

State Samples Collected In

[ ]	NY
[ ]	NJ
[x]	PA
[ ]	WV
[ ]	FL
	other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client Lancaster County Workorder 3399733

Temp °C 5 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers	X			
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3088 RIVER RD
Workorder 3399724
Report ID 390380 on 2/25/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399724001	3088 River Road, Conestoga PA	Water	02/07/2025 12:26	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type MS for method EPA 524.2 was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 134 and the control limits were 70 to 130.
2	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3088 River Road, Conestoga PA	Collected	02/07/2025 12:26
Lab Sample ID	3399724001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	8.06	pH_Units		Field	#
Specific Conductance, Field	805	umhos/cm	1	Field	#
Temperature	13.86	Deg. C		Field	#
METALS					
Calcium, Dissolved	23.8	mg/L	0.10	EPA 200.7	#
Calcium, Total	16.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	6.4	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.022	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.017	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	13.0	mg/L	0.50	EPA 200.7	#
Potassium, Total	13.3	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	142	mg/L	0.50	EPA 200.7	#
Sodium, Total	143	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	151	mg/L	5	SM2320B-2011	#
Alkalinity, Total	151	mg/L	5	SM2320B-2011	#
Chloride	187	mg/L	2.0	EPA 300.0	#
Nitrate-N	3.9	mg/L	1.0	EPA 300.0	#
pH	8.07	pH_Units		S4500HB-11	#
Specific Conductance	878	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	482	mg/L	25	SM2540C-15	#
Turbidity	0.65	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	02/07/2025 12:26
Lab Sample ID	3399724001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	8.06		pH_Units		Field	1	02/07/2025 12:26	BGS	P
Specific Conductance, Field	805		umhos/cm	1	Field	1	02/07/2025 12:26	BGS	P
Temperature	13.86		Deg. C		Field	1	02/07/2025 12:26	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	23.8	4	mg/L	0.10	EPA 200.7	1	02/19/2025 09:06	MSY	F
Calcium, Total	16.9		mg/L	0.050	EPA 200.7	1	02/21/2025 10:26	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:06	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:26	MSY	D1
Magnesium, Dissolved	9.4	4	mg/L	0.10	EPA 200.7	1	02/19/2025 09:06	MSY	F
Magnesium, Total	6.4		mg/L	0.050	EPA 200.7	1	02/21/2025 10:26	MSY	D1
Manganese, Dissolved	0.022		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:06	MSY	F
Manganese, Total	0.017		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:26	MSY	D1
Potassium, Dissolved	13.0		mg/L	0.50	EPA 200.7	1	02/19/2025 09:06	MSY	F
Potassium, Total	13.3		mg/L	0.25	EPA 200.7	1	02/21/2025 10:26	MSY	D1
Sodium, Dissolved	142		mg/L	0.50	EPA 200.7	1	02/19/2025 09:06	MSY	F
Sodium, Total	143		mg/L	0.25	EPA 200.7	1	02/21/2025 10:26	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
1,1-Dichloroethene	ND	ND,1	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 18:15	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.3%	70 – 130	02/18/2025 18:15	

WET CHEMISTRY

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	02/07/2025 12:26
Lab Sample ID	3399724001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	151		mg/L	5	SM2320B-2011	1	02/13/2025 21:36	JXK	A
Alkalinity, Total	151	2	mg/L	5	SM2320B-2011	1	02/13/2025 21:36	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 16:21	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	187		mg/L	2.0	EPA 300.0	2	02/08/2025 14:59	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 14:59	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/24/2025 17:31	PAG	K
Nitrate-N	3.9		mg/L	1.0	EPA 300.0	2	02/08/2025 14:59	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 14:59	GMM	A
pH	8.07	3	pH_Units		S4500HB-11	1	02/13/2025 21:36	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:51	AKH	J
Specific Conductance	878		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	02/08/2025 14:59	GMM	A
Total Dissolved Solids	482		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	0.65		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399724001	3088 River Road, Conestoga PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399724001	3088 River Road, Conestoga PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392873
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397702

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399724

Logged By: SLS
PM: SJB

/ of

(eceiving Lab)

Client Name: LCSWMA Hans Weber and Deb Kalbach

Address: 3088 River Rd
Conestoga Pa 17516

Contact: Hans Weber and Deb Kalbach
Phone#: 717-419-7982
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Hans Weber and Deb Kalbach
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3088RIVERRD	2/7/25	1226		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, llist below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: [illegible] ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1620	1	[illegible] AW	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3399724

Temp °C 5 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers	X			
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) ~~<~~ _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR-2025 3100 RIVER RD
Workorder 3399727
Report ID 390379 on 2/25/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399727001	3100 River Road, Conestoga, PA	Water	02/07/2025 12:58	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3100 River Road, Conestoga, PA	Collected	02/07/2025 12:58
Lab Sample ID	3399727001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.99	pH_Units		Field	#
Specific Conductance, Field	251	umhos/cm	1	Field	#
Temperature	14.21	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.2	mg/L	0.10	EPA 200.7	#
Calcium, Total	14.3	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	8.3	mg/L	0.10	EPA 200.7	#
Magnesium, Total	7.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.012	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.013	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.9	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.8	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	20.5	mg/L	0.50	EPA 200.7	#
Sodium, Total	20.1	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	18	mg/L	5	SM2320B-2011	#
Alkalinity, Total	18	mg/L	5	SM2320B-2011	#
Chloride	57.5	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.1	mg/L	1.0	EPA 300.0	#
pH	6.99	pH_Units		S4500HB-11	#
Specific Conductance	264	umhos/cm	5	SM2510B-2011	#
Sulfate	6.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	171	mg/L	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	02/07/2025 12:58
Lab Sample ID	3399727001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.99		pH_Units		Field	1	02/07/2025 12:58	BGS	P
Specific Conductance, Field	251		umhos/cm	1	Field	1	02/07/2025 12:58	BGS	P
Temperature	14.21		Deg. C		Field	1	02/07/2025 12:58	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.2		mg/L	0.10	EPA 200.7	1	02/19/2025 09:25	MSY	F
Calcium, Total	14.3	3	mg/L	0.050	EPA 200.7	1	02/21/2025 10:28	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:25	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/21/2025 10:28	MSY	D1
Magnesium, Dissolved	8.3		mg/L	0.10	EPA 200.7	1	02/19/2025 09:25	MSY	F
Magnesium, Total	7.8	3	mg/L	0.050	EPA 200.7	1	02/21/2025 10:28	MSY	D1
Manganese, Dissolved	0.012		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:25	MSY	F
Manganese, Total	0.013		mg/L	0.0025	EPA 200.7	1	02/21/2025 10:28	MSY	D1
Potassium, Dissolved	1.9		mg/L	0.50	EPA 200.7	1	02/19/2025 09:25	MSY	F
Potassium, Total	1.8		mg/L	0.25	EPA 200.7	1	02/21/2025 10:28	MSY	D1
Sodium, Dissolved	20.5		mg/L	0.50	EPA 200.7	1	02/19/2025 09:25	MSY	F
Sodium, Total	20.1		mg/L	0.25	EPA 200.7	1	02/21/2025 10:28	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 14:56	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	115%	70 – 130	02/18/2025 14:56	

WET CHEMISTRY

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	02/07/2025 12:58
Lab Sample ID	3399727001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	18		mg/L	5	SM2320B-2011	1	02/13/2025 21:49	JXK	A
Alkalinity, Total	18	1	mg/L	5	SM2320B-2011	1	02/13/2025 21:49	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 16:09	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	57.5		mg/L	2.0	EPA 300.0	2	02/08/2025 15:11	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 15:11	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/24/2025 17:31	PAG	K
Nitrate-N	4.1		mg/L	1.0	EPA 300.0	2	02/08/2025 15:11	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 15:11	GMM	A
pH	6.99	2	pH_Units		S4500HB-11	1	02/13/2025 21:49	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:58	AKH	J
Specific Conductance	264		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	6.1		mg/L	2.0	EPA 300.0	2	02/08/2025 15:11	GMM	A
Total Dissolved Solids	171		mg/L	25	SM2540C-15	1	02/13/2025 09:17	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	1.5		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399727001	3100 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399727001	3100 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA TRMD	1387469	02/13/2025 04:20	ANN	EPA 200.7	1394706
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		N/A	N/A	N/A		EPA 524.2	1392873
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1388166
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1397702

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3399727

Logged By: SLS
PM: SJB

of

(by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by:

WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Client Name: LCSWMA Landowner

Address: 3100 River Rd
Conestoga Pa 17516

Contact: Ann Kirchner
Phone#: 717-584-0030
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT
[x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?
Email? [ ]

Container Type	AG	AN	AN	CG		P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
1	3100RIVERRD	2/7/25	1258		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1600		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?
PWSID #
PWS Contact: PWS Phone #:

Rad Screen (uCi)
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: RDShade ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1625	1	RDShade ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Middletown Sample Condition Form

Client LCSWMA Workorder 3399727

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers	X			
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 1ST QTR 2025-3106 RIVER RD
Workorder 3399721
Report ID 390247 on 2/24/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 07, 2025.

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 Susan Scherer (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.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3399721001	3106 River Road, Conestoga, PA	Water	02/07/2025 14:44	02/07/2025 16:20	BGS	Analytical Laboratory Service

Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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 preformed 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3106 River Road, Conestoga, PA	Collected	02/07/2025 14:44
Lab Sample ID	3399721001	Lab Receipt	02/07/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	7.12	pH_Units		Field	#
Specific Conductance, Field	385	umhos/cm	1	Field	#
Temperature	15.78	Deg. C		Field	#
METALS					
Calcium, Dissolved	26.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	24.3	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	17.9	mg/L	0.10	EPA 200.7	#
Magnesium, Total	16.6	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.050	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.048	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	52.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	50.4	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	18	mg/L	5	SM2320B-2011	#
Alkalinity, Total	18	mg/L	5	SM2320B-2011	#
Chloride	140	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.1	mg/L	1.0	EPA 300.0	#
pH	7.07	pH_Units		S4500HB-11	#
Specific Conductance	565	umhos/cm	5	SM2510B-2011	#
Sulfate	6.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	298	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.53	mg/L	0.50	SM5310B-14	#
Turbidity	1.2	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	02/07/2025 14:44
Lab Sample ID	3399721001	Lab Receipt	02/07/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	7.12		pH_Units		Field	1	02/07/2025 14:44	BGS	P
Specific Conductance, Field	385		umhos/cm	1	Field	1	02/07/2025 14:44	BGS	P
Temperature	15.78		Deg. C		Field	1	02/07/2025 14:44	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	26.3		mg/L	0.10	EPA 200.7	1	02/19/2025 09:29	MSY	F
Calcium, Total	24.3	3	mg/L	0.050	EPA 200.7	1	02/20/2025 14:10	MSY	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2025 09:29	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2025 14:10	MSY	D1
Magnesium, Dissolved	17.9		mg/L	0.10	EPA 200.7	1	02/19/2025 09:29	MSY	F
Magnesium, Total	16.6	3	mg/L	0.050	EPA 200.7	1	02/20/2025 14:10	MSY	D1
Manganese, Dissolved	0.050		mg/L	0.0050	EPA 200.7	1	02/19/2025 09:29	MSY	F
Manganese, Total	0.048		mg/L	0.0025	EPA 200.7	1	02/20/2025 14:10	MSY	D1
Potassium, Dissolved	2.4		mg/L	0.50	EPA 200.7	1	02/19/2025 09:29	MSY	F
Potassium, Total	2.4		mg/L	0.25	EPA 200.7	1	02/20/2025 14:10	MSY	D1
Sodium, Dissolved	52.0		mg/L	0.50	EPA 200.7	1	02/19/2025 09:29	MSY	F
Sodium, Total	50.4		mg/L	0.25	EPA 200.7	1	02/20/2025 14:10	MSY	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/18/2025 13:02	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	97%	70 – 130	02/18/2025 13:02	

WET CHEMISTRY

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	02/07/2025 14:44
Lab Sample ID	3399721001	Lab Receipt	02/07/2025 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	18		mg/L	5	SM2320B-2011	1	02/13/2025 21:12	JXK	A
Alkalinity, Total	18	1	mg/L	5	SM2320B-2011	1	02/13/2025 21:12	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/13/2025 16:18	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/11/2025 10:15	KMS	C
Chloride	140		mg/L	2.0	EPA 300.0	2	02/08/2025 14:36	GMM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/08/2025 14:36	GMM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/21/2025 16:19	PAG	K
Nitrate-N	10.1		mg/L	1.0	EPA 300.0	2	02/08/2025 14:36	GMM	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	02/08/2025 14:36	GMM	A
pH	7.07	2	pH_Units		S4500HB-11	1	02/13/2025 21:12	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2025 12:21	AKH	J
Specific Conductance	565		umhos/cm	5	SM2510B-2011	1	02/20/2025 17:37	LMD	A
Sulfate	6.5		mg/L	2.0	EPA 300.0	2	02/08/2025 14:36	GMM	A
Total Dissolved Solids	298		mg/L	25	SM2540C-15	1	02/13/2025 09:19	RAG	A
Total Organic Carbon (TOC)	0.53		mg/L	0.50	SM5310B-14	1	02/11/2025 01:22	PAG	H
Turbidity	1.2		NTU	0.30	SM2130B-2011	1	02/08/2025 10:47	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3399721001	3106 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3399721001	3106 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1390090
		EPA ACID	1393463	02/19/2025 08:50	MSY	EPA 200.7	1393577
		EPA TRMD	1387495	02/11/2025 08:55	NBU	EPA 200.7	1394611
		N/A	N/A	N/A		EPA 524.2	1392873
		N/A	N/A	N/A		EPA 300.0	1386066
		N/A	N/A	N/A		EPA 410.4	1387475
		SW846 9066	1392908	02/19/2025 08:55	AKH	EPA 420.4	1393466
		N/A	N/A	N/A		S4500HB-11	1387629
		N/A	N/A	N/A		SM 4500-NH3G	1387626
		N/A	N/A	N/A		SM2130B-2011	1386062
		N/A	N/A	N/A		SM2320B-2011	1387629
		N/A	N/A	N/A		SM2510B-2011	1394860
		N/A	N/A	N/A		SM2540C-15	1387517
		N/A	N/A	N/A		SM5310B-14	1386879
		N/A	N/A	N/A		SW846 9020B	1395588

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3399721
Logged By: SLS
PM: SJB

21 of

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LCSWMA Aaron Fry

Address: 3106 River Rd
Conestoga Pa 17516

Contact: Aaron Fry
Phone#: 717-669-6831
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Aaron Fry
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3106RIVERRD	2/7/25	1444		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/7/25	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: [signature] ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-7-25	1620	1	[signature] ALS	2	QAG-ALS
		3		4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

(Completed by Receiving Lab)
Temp Taken By: WO Temp (°C)

Receipt Info completed by:
WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?
PWSID #
PWS Contact: PWS Phone #:

Rad Screen (uCi)
New Source? Y N
New Source Contact:

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

Middletown Sample Condition Form

Client LCSWMA Workorder 3399721

Temp °C 6 Therm ID 524 Ice? (Y) N N/A Initials & Date DAG 2/8/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*	X			
COC/bottle labels complete & in agreement •Sample location •Date and time of sample collection •Type(s) of preservation •Number of containers •Composite or grab •Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

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