2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
04/10/2026
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) 02/12/2026 Sample Collection Time: 9:00 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	9	SM20-2321
CALCIUM, TOTAL	15.8	EPA 200.7
CALCIUM, DISSOLVED	15	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	18.4	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	10.8	EPA 200.7
MAGNESIUM, DISSOLVED	10.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	11	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	11	EPA 200.7
NITRATE-NITROGEN	16.9	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 LCSWMA

Sample Date: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.56	FIELD
pH-LAB (SU)	7.33	SM4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	9.3	EPA 200.7
SODIUM, DISSOLVED	9.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	283	FIELD
SPEC. COND., LAB (umhos/cm)	234	EPA 120.1
SULFATE	0.91	EPA 300
ALKALINITY	9	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	162	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: 02/12/2026

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
04/10/2026
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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 ° 57 ' 29.85 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 9:30 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	13.9	EPA 200.7
CALCIUM, DISSOLVED	14.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19	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	9.7	EPA 200.7
MAGNESIUM, DISSOLVED	9.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	40	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	38	EPA 200.7
NITRATE-NITROGEN	15.8	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 MILLER

Sample Date: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.11	FIELD
pH-LAB (SU)	7.02	SM4500B
POTASSIUM, TOTAL	1.9	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	7.6	EPA 200.7
SODIUM, DISSOLVED	7.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	234	FIELD
SPEC. COND., LAB (umhos/cm)	222	EPA 120.1
SULFATE	2.5	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	160	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3 ND	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 28.44 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 9:45 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	8	SM20-2321
CALCIUM, TOTAL	11.5	EPA 200.7
CALCIUM, DISSOLVED	11.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	23.3	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	12	EPA 200.7
MAGNESIUM, DISSOLVED	11.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	72	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	68	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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.11	FIELD
pH-LAB (SU)	7.22	SM4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	2.2	EPA 200.7
SODIUM, TOTAL	8.7	EPA 200.7
SODIUM, DISSOLVED	8.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	257	FIELD
SPEC. COND., LAB (umhos/cm)	228	EPA 120.1
SULFATE	0.75	EPA 300
ALKALINITY	8	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	149	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.4	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 27.63 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 10:15 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/19/2026

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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	10.6	EPA 200.7
CALCIUM, DISSOLVED	10.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	17.4	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	EPA 200.7
MAGNESIUM, DISSOLVED	10.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	100	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	100	EPA 200.7
NITRATE-NITROGEN	15.5	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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	4.9	FIELD
pH-LAB (SU)	6.68	SM4500B
POTASSIUM, TOTAL	2.8	EPA 200.7
POTASSIUM, DISSOLVED	2.7	EPA 200.7
SODIUM, TOTAL	9.2	EPA 200.7
SODIUM, DISSOLVED	8.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	230	FIELD
SPEC. COND., LAB (umhos/cm)	221	EPA 120.1
SULFATE	9.1	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	146	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.75	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 28.2 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 12:35 PM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	9	SM20-2321
CALCIUM, TOTAL	13.5	EPA 200.7
CALCIUM, DISSOLVED	13.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	57.3	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	8.3	EPA 200.7
MAGNESIUM, DISSOLVED	8.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	140	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	140	EPA 200.7
NITRATE-NITROGEN	8.7	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 SENSENICH

Sample Date: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.23	FIELD
pH-LAB (SU)	7.17	SM4500B
POTASSIUM, TOTAL	3.2	EPA 200.7
POTASSIUM, DISSOLVED	3.3	EPA 200.7
SODIUM, TOTAL	25.6	EPA 200.7
SODIUM, DISSOLVED	27	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	320	FIELD
SPEC. COND., LAB (umhos/cm)	308	EPA 120.1
SULFATE	10.8	EPA 300
ALKALINITY	9	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	186	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3 ND	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 21.99 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 2:30 PM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/19/2026

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: 02/12/2026

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	11.1	EPA 200.7
CALCIUM, DISSOLVED	11.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	30.4	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	EPA 200.7
MAGNESIUM, DISSOLVED	6.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	19	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	20	EPA 200.7
NITRATE-NITROGEN	2	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: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.22	EPA 300
pH-FIELD (SU)	5.6	FIELD
pH-LAB (SU)	7.68	SM4500B
POTASSIUM, TOTAL	1.9	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	13.9	EPA 200.7
SODIUM, DISSOLVED	13.7	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	199	FIELD
SPEC. COND., LAB (umhos/cm)	185	EPA 120.1
SULFATE	9.9	EPA 300
ALKALINITY	23	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	163	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3 ND	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 21 " Longitude: 76 ° 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) 02/13/2026 Sample Collection Time: 9:40 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	132	SM20-2321
CALCIUM, TOTAL	0.52	EPA 200.7
CALCIUM, DISSOLVED	0.52	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	217	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	0.2	EPA 200.7
MAGNESIUM, DISSOLVED	0.21	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	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 WEBER

Sample Date: 02/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	6.57	FIELD
pH-LAB (SU)	7.96	SM4500B
POTASSIUM, TOTAL	3.3	EPA 200.7
POTASSIUM, DISSOLVED	3.3	EPA 200.7
SODIUM, TOTAL	180	EPA 200.7
SODIUM, DISSOLVED	195	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	981	FIELD
SPEC. COND., LAB (umhos/cm)	989	EPA 120.1
SULFATE	0.5 ND	EPA 300
ALKALINITY	132	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	522	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3 ND	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: 02/13/2026

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
04/10/2026
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 ° 57 ' 17.9 " Longitude: 76 ° 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) 02/13/2026 Sample Collection Time: 8:30 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/24/2026

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: 02/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	15	SM20-2321
CALCIUM, TOTAL	12.8	EPA 200.7
CALCIUM, DISSOLVED	12.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	52.4	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	7.3	EPA 200.7
MAGNESIUM, DISSOLVED	7.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	12	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	12	EPA 200.7
NITRATE-NITROGEN	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 KIRCHNER

Sample Date: 02/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.63	FIELD
pH-LAB (SU)	7.07	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.6	EPA 200.7
SODIUM, TOTAL	19.6	EPA 200.7
SODIUM, DISSOLVED	19.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	257	FIELD
SPEC. COND., LAB (umhos/cm)	237	EPA 120.1
SULFATE	6.1	EPA 300
ALKALINITY	15	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	156	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3	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: 02/13/2026

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
04/10/2026
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: FRY

Address: 3106 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 17.27 " Longitude: 76 ° 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) 02/12/2026 Sample Collection Time: 1:10 PM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 02/20/2026

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: 02/12/2026

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	19.7	EPA 200.7
CALCIUM, DISSOLVED	21.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	117	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	13.6	EPA 200.7
MAGNESIUM, DISSOLVED	14.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	42	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	41	EPA 200.7
NITRATE-NITROGEN	8.4	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 FRY

Sample Date: 02/12/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.56	FIELD
pH-LAB (SU)	7.4	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	2.1	EPA 200.7
SODIUM, TOTAL	48.6	EPA 200.7
SODIUM, DISSOLVED	48.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	283	FIELD
SPEC. COND., LAB (umhos/cm)	506	EPA 120.1
SULFATE	5.9	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	298	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.6	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3	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: 02/12/2026

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
04/10/2026
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 ° 57 ' 11.6 " Longitude: 76 ° 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) 03/13/2026 Sample Collection Time: 8:45 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 03/27/2026

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: 03/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 <	SM4500D
BICARBONATE ALKALINITY	119	SM20-2321
CALCIUM, TOTAL	13.4	EPA 200.7
CALCIUM, DISSOLVED	13.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 <	EPA 410.2
CHLORIDE	75.3	EPA 300
FLUORIDE	0.2 <	EPA 300
IRON, TOTAL (ug/l)	60 <	EPA 200.7
IRON, DISSOLVED (ug/l)	30 <	EPA 200.7
MAGNESIUM, TOTAL	2.1	EPA 200.7
MAGNESIUM, DISSOLVED	2.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	6.9	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	7	EPA 200.7
NITRATE-NITROGEN	5.7	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 BECK

Sample Date: 03/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 <	EPA 300
pH-FIELD (SU)	6.76	FIELD
pH-LAB (SU)	8.22	SM4500B
POTASSIUM, TOTAL	8.6	EPA 200.7
POTASSIUM, DISSOLVED	8.5	EPA 200.7
SODIUM, TOTAL	80.7	EPA 200.7
SODIUM, DISSOLVED	82.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	504	FIELD
SPEC. COND., LAB (umhos/cm)	514	EPA 120.1
SULFATE	8.7	EPA 300
ALKALINITY	119	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	258	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 <	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 <	EPA 420.4
TURBIDITY (NTU)	0.4	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 BECK

Sample Date: 03/13/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 <	EPA 524.2
1,2-DIBROMOETHANE	0.5 <	EPA 524.2
1,1-DICHLOROETHANE	0.5 <	EPA 524.2
1,1-DICHLOROETHENE	0.5 <	EPA 524.2
1,2-DICHLOROETHANE	0.5 <	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 <	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 <	EPA 524.2
ETHYLBENZENE	0.5 <	EPA 524.2
METHYLENE CHLORIDE	0.5 <	EPA 524.2
TETRACHLOROETHENE	0.5 <	EPA 524.2
TOLUENE	0.5 <	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 <	EPA 524.2
TRICHLOROETHENE	0.5 <	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 <	EPA 524.2
VINYL CHLORIDE	0.5 <	EPA 524.2
XYLENES (TOTAL)	0.5 <	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 CONTIGUOUS LANDOWNER-3044 RIVE
Workorder 3450965
Report ID 497379 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450965001	3044 River Road, Conestoga, PA	Water	02/12/2026 09:00	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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	02/12/2026 09:00
Lab Sample ID	3450965001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.56	pH_Units		Field	#
Specific Conductance, Field	283	umhos/cm	1	Field	#
Temperature	6.80	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.0	mg/L	0.10	EPA 200.7	#
Calcium, Total	15.8	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	10.5	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.011	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.011	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	9.3	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.3	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	9	mg/L	5	SM2320B-2011	#
Alkalinity, Total	9	mg/L	5	SM2320B-2011	#
Chloride	18.4	mg/L	0.50	EPA 300.0	#
Nitrate-N	16.9	mg/L	0.050	EPA 300.0	#
pH	7.33	pH_Units		S4500HB-11	#
Specific Conductance	234	umhos/cm	5	SM2510B-2011	#
Sulfate	0.91	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	162	mg/L	25	SM2540C-15	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	02/12/2026 09:00
Lab Sample ID	3450965001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.56		pH_Units		Field	1	02/12/2026 09:00	E2P	P
Specific Conductance, Field	283		umhos/cm	1	Field	1	02/12/2026 09:00	E2P	P
Temperature	6.80		Deg. C		Field	1	02/12/2026 09:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.0		mg/L	0.10	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Calcium, Total	15.8		mg/L	0.050	EPA 200.7	1	02/20/2026 10:22	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:22	AAJ	D1
Magnesium, Dissolved	10.5		mg/L	0.10	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Magnesium, Total	10.8		mg/L	0.050	EPA 200.7	1	02/20/2026 10:22	AAJ	D1
Manganese, Dissolved	0.011		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Manganese, Total	0.011		mg/L	0.0025	EPA 200.7	1	02/20/2026 10:22	AAJ	D1
Potassium, Dissolved	1.9		mg/L	0.50	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Potassium, Total	1.8		mg/L	0.25	EPA 200.7	1	02/20/2026 10:22	AAJ	D1
Sodium, Dissolved	9.3		mg/L	0.50	EPA 200.7	1	02/19/2026 12:25	AAJ	F
Sodium, Total	9.3		mg/L	0.25	EPA 200.7	1	02/20/2026 10:22	AAJ	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	02/19/2026 17:56	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 17:56	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.1%	70 – 130	02/19/2026 17:56	

WET CHEMISTRY

Results

Client Sample ID 3044 River Road, Conestoga, PA
Lab Sample ID 3450965001

Collected 02/12/2026 09:00
Lab Receipt 02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	9		mg/L	5	SM2320B-2011	1	02/14/2026 08:41	TJH	A
Alkalinity, Total	9	1	mg/L	5	SM2320B-2011	1	02/14/2026 08:41	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 10:48	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	18.4		mg/L	0.50	EPA 300.0	2	02/13/2026 14:51	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 14:51	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/17/2026 16:59	PAG	K
Nitrate-N	16.9		mg/L	0.050	EPA 300.0	2	02/13/2026 14:51	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 14:51	J1W	A
pH	7.33	2	pH_Units		S4500HB-11	1	02/14/2026 08:41	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 16:02	A1L	J
Specific Conductance	234		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	0.91		mg/L	0.50	EPA 300.0	2	02/13/2026 14:51	J1W	A
Total Dissolved Solids	162		mg/L	25	SM2540C-15	1	02/16/2026 14:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450965001	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
3450965001	3044 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522577
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523001

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.

COC #: 2

ALS Quote #:

3450965

Logged By: SLS
PM: SIW

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-553-5864
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

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	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	
1	3044RIVERRD	2/12/26	0900		G	DW	2	2	1	3	1	1	2	2	1	
2	Trip Blank	2/12/26	NA		G	Di				3						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: Evon P ID:

Comments: PH 5.56 temp. 6.8°C Spc 283

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	ALS EP	2	
		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

Temp Taken By:

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
Rad Screen (uCi)
SDWA State of Origin?
New Source? Y N
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 [ ] 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 Workorder 3450965

Temp °C 1° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/12/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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 CONTIGUOUS LANDOWNER-3052 RIVE
Workorder 3450966
Report ID 497387 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450966001	3052 River Road, Conestoga, PA	Water	02/12/2026 09:30	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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	02/12/2026 09:30
Lab Sample ID	3450966001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.11	pH_Units		Field	#
Specific Conductance, Field	234	umhos/cm	1	Field	#
Temperature	12.30	Deg. C		Field	#
METALS					
Calcium, Dissolved	14.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.7	mg/L	0.10	EPA 200.7	#
Magnesium, Total	9.7	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.038	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.040	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.0	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.9	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	7.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	7.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Chloride	19.0	mg/L	0.50	EPA 300.0	#
Nitrate-N	15.8	mg/L	0.050	EPA 300.0	#
pH	7.02	pH_Units		S4500HB-11	#
Specific Conductance	222	umhos/cm	5	SM2510B-2011	#
Sulfate	2.5	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	160	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	02/12/2026 09:30
Lab Sample ID	3450966001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.11		pH_Units		Field	1	02/12/2026 09:30	E2P	P
Specific Conductance, Field	234		umhos/cm	1	Field	1	02/12/2026 09:30	E2P	P
Temperature	12.30		Deg. C		Field	1	02/12/2026 09:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	14.4		mg/L	0.10	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Calcium, Total	13.9		mg/L	0.050	EPA 200.7	1	02/20/2026 10:26	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:26	AAJ	D1
Magnesium, Dissolved	9.7		mg/L	0.10	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Magnesium, Total	9.7		mg/L	0.050	EPA 200.7	1	02/20/2026 10:26	AAJ	D1
Manganese, Dissolved	0.038		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Manganese, Total	0.040		mg/L	0.0025	EPA 200.7	1	02/20/2026 10:26	AAJ	D1
Potassium, Dissolved	2.0		mg/L	0.50	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Potassium, Total	1.9		mg/L	0.25	EPA 200.7	1	02/20/2026 10:26	AAJ	D1
Sodium, Dissolved	7.8		mg/L	0.50	EPA 200.7	1	02/19/2026 12:35	AAJ	F
Sodium, Total	7.6		mg/L	0.25	EPA 200.7	1	02/20/2026 10:26	AAJ	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	02/19/2026 18:19	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:19	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	92.8%	70 – 130	02/19/2026 18:19	

WET CHEMISTRY

Results

Client Sample ID 3052 River Road, Conestoga, PA
Lab Sample ID 3450966001

Collected 02/12/2026 09:30
Lab Receipt 02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	02/14/2026 08:54	TJH	A
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	02/14/2026 08:54	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 10:55	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	19.0		mg/L	0.50	EPA 300.0	2	02/13/2026 15:03	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 15:03	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/17/2026 16:59	PAG	K
Nitrate-N	15.8		mg/L	0.050	EPA 300.0	2	02/13/2026 15:03	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 15:03	J1W	A
pH	7.02	2	pH_Units		S4500HB-11	1	02/14/2026 08:54	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 16:05	A1L	J
Specific Conductance	222		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	2.5		mg/L	0.50	EPA 300.0	2	02/13/2026 15:03	J1W	A
Total Dissolved Solids	160		mg/L	25	SM2540C-15	1	02/16/2026 14:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450966001	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
3450966001	3052 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522577
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523001

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.

COC #: 3450966
Logged By: SLS
PM: SIW
ALS Quot
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	2/12/26	0930		G	DW										
2	Trip Blank	2/12/26	NA		G	Di										
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: .np (°C) 2.

Receipt Info completed by:

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 #

WV Containers 0-6°C Y N NA

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

Circle Sample Collector: ALS Tech / Client
Name: Evon P ID:

Comments: PH- 5.11 temp- 12.3°C 334

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	ALS EP	2	
		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 Lancaster Workorder 3450966

Temp °C 2° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/12/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers	-	✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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:

_____

_____

_____

2/27/2026 8:45 AM

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 3056 River Rd
Workorder 3450969
Report ID 497376 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450969001	3056RIVERRD	Water	02/12/2026 09:45	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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 QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 47.3 and the control limits were 80 to 120.
3	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 57.8 and the control limits were 80 to 120.
4	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	02/12/2026 09:45
Lab Sample ID	3450969001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.11	pH_Units		Field	#
Specific Conductance, Field	257	umhos/cm	1	Field	#
Temperature	11.90	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	12.0	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.068	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.072	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.2	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.1	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.7	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	8	mg/L	5	SM2320B-2011	#
Alkalinity, Total	8	mg/L	5	SM2320B-2011	#
Chloride	23.3	mg/L	0.50	EPA 300.0	#
Nitrate-N	15.6	mg/L	0.050	EPA 300.0	#
pH	7.22	pH_Units		S4500HB-11	#
Specific Conductance	228	umhos/cm	5	SM2510B-2011	#
Sulfate	0.75	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	149	mg/L	25	SM2540C-15	#
Turbidity	0.40	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3056RIVERRD	Collected	02/12/2026 09:45
Lab Sample ID	3450969001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.11		pH_Units		Field	1	02/12/2026 09:45	E2P	P
Specific Conductance, Field	257		umhos/cm	1	Field	1	02/12/2026 09:45	E2P	P
Temperature	11.90		Deg. C		Field	1	02/12/2026 09:45	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.4		mg/L	0.10	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Calcium, Total	11.5		mg/L	0.050	EPA 200.7	1	02/20/2026 10:03	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:03	AAJ	D1
Magnesium, Dissolved	11.8		mg/L	0.10	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Magnesium, Total	12.0		mg/L	0.050	EPA 200.7	1	02/20/2026 10:03	AAJ	D1
Manganese, Dissolved	0.068		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Manganese, Total	0.072		mg/L	0.0025	EPA 200.7	1	02/20/2026 10:03	AAJ	D1
Potassium, Dissolved	2.2		mg/L	0.50	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Potassium, Total	2.1		mg/L	0.25	EPA 200.7	1	02/20/2026 10:03	AAJ	D1
Sodium, Dissolved	8.8		mg/L	0.50	EPA 200.7	1	02/19/2026 12:20	AAJ	F
Sodium, Total	8.7		mg/L	0.25	EPA 200.7	1	02/20/2026 10:03	AAJ	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	02/19/2026 19:05	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:05	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.8%	70 – 130	02/19/2026 19:05	

WET CHEMISTRY

Results

Client Sample ID	3056RIVERRD	Collected	02/12/2026 09:45
Lab Sample ID	3450969001	Lab Receipt	02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	8		mg/L	5	SM2320B-2011	1	02/14/2026 09:31	TJH	A
Alkalinity, Total	8	1	mg/L	5	SM2320B-2011	1	02/14/2026 09:31	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 11:01	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	23.3		mg/L	0.50	EPA 300.0	2	02/13/2026 15:29	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 15:29	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/18/2026 16:39	PAG	K
Nitrate-N	15.6	2,3	mg/L	0.050	EPA 300.0	2	02/13/2026 15:29	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 15:29	J1W	A
pH	7.22	4	pH_Units		S4500HB-11	1	02/14/2026 09:31	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 16:18	A1L	J
Specific Conductance	228		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	0.75		mg/L	0.50	EPA 300.0	2	02/13/2026 15:29	J1W	A
Total Dissolved Solids	149		mg/L	25	SM2540C-15	1	02/16/2026 14:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	0.40		NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450969001	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
3450969001	3056RIVERRD	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522577
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523125

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.

COC #: 2
ALS Quote #:
3450969
Logged By: SLS
PM: SIW
of 2

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
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	2/12/26	0945		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/12/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By:
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 #
Rad Screen (uCi)
New Source? Y N
New Source Contact:
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: Evon **ID:**
Comments: PH- 5.11 temp- 11.9°C SPC 857

Date:	Time	Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1 ALS EP	2	
		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 Lancaster Workorder 3450969

Temp °C 2 Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/12/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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 3060 River Rd
Workorder 3450970
Report ID 496654 on 2/23/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450970001	3060RIVERRD	Water	02/12/2026 10:15	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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	02/12/2026 10:15
Lab Sample ID	3450970001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	4.90	pH_Units		Field	#
Specific Conductance, Field	230	umhos/cm	1	Field	#
Temperature	17.90	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	10.6	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	10.9	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.0	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.10	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.10	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.7	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.8	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.9	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.2	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Chloride	17.4	mg/L	0.50	EPA 300.0	#
Nitrate-N	15.5	mg/L	0.050	EPA 300.0	#
pH	6.68	pH_Units		S4500HB-11	#
Specific Conductance	221	umhos/cm	5	SM2510B-2011	#
Sulfate	9.1	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	146	mg/L	25	SM2540C-15	#
Turbidity	0.75	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3060RIVERRD	Collected	02/12/2026 10:15
Lab Sample ID	3450970001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	4.90		pH_Units		Field	1	02/12/2026 10:15	E2P	P
Specific Conductance, Field	230		umhos/cm	1	Field	1	02/12/2026 10:15	E2P	P
Temperature	17.90		Deg. C		Field	1	02/12/2026 10:15	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.4		mg/L	0.10	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Calcium, Total	10.6		mg/L	0.050	EPA 200.7	1	02/19/2026 10:02	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/19/2026 10:02	AAJ	D1
Magnesium, Dissolved	10.9		mg/L	0.10	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Magnesium, Total	11.0		mg/L	0.050	EPA 200.7	1	02/19/2026 10:02	AAJ	D1
Manganese, Dissolved	0.10		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Manganese, Total	0.10		mg/L	0.0025	EPA 200.7	1	02/19/2026 10:02	AAJ	D1
Potassium, Dissolved	2.7		mg/L	0.50	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Potassium, Total	2.8		mg/L	0.25	EPA 200.7	1	02/19/2026 10:02	AAJ	D1
Sodium, Dissolved	8.9		mg/L	0.50	EPA 200.7	1	02/19/2026 12:18	AAJ	F
Sodium, Total	9.2		mg/L	0.25	EPA 200.7	1	02/19/2026 10:02	AAJ	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	02/19/2026 19:28	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:28	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.5%	70 – 130	02/19/2026 19:28	

WET CHEMISTRY

Results

Client Sample ID	3060RIVERRD	Collected	02/12/2026 10:15
Lab Sample ID	3450970001	Lab Receipt	02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	02/14/2026 10:21	TJH	A
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	02/14/2026 10:21	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 11:05	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	17.4		mg/L	0.50	EPA 300.0	2	02/13/2026 16:34	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 16:34	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/18/2026 16:39	PAG	K
Nitrate-N	15.5		mg/L	0.050	EPA 300.0	2	02/13/2026 16:34	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 16:34	J1W	A
pH	6.68	2	pH_Units		S4500HB-11	1	02/14/2026 10:21	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 16:45	A1L	J
Specific Conductance	221		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	9.1		mg/L	0.50	EPA 300.0	2	02/13/2026 16:34	J1W	A
Total Dissolved Solids	146		mg/L	25	SM2540C-15	1	02/16/2026 14:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	0.75		NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450970001	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
3450970001	3060RIVERRD	N/A	N/A	N/A		Field	1524224
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		EPA TRMD	1523127	02/18/2026 09:42	RMH	EPA 200.7	1523600
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522577
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523125

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.

COC #: 3450970 Logged By: SLS PM: SIW

ALS Quote

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike, Lancaster PA 17604

Contact: Dan Brown

Phone#: 717-553-5864

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	2/12/26	1015		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/12/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: (°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

Courier/Tracking #

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: Evon **ID:**

Comments: PH- 4.90 temp- 17.9°c Spc- 730

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	ALS EP	2	
		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 Lancaster Workorder 3150970

Temp °C 1° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/18/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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 CONTIGUOUS LANDOWNER-3076 RIVE
Workorder 3450967
Report ID 497375 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450967001	3076 River Road, Conestoga, PA	Water	02/12/2026 12:35	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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).
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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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- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
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- 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”.
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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
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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	02/12/2026 12:35
Lab Sample ID	3450967001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.23	pH_Units		Field	#
Specific Conductance, Field	320	umhos/cm	1	Field	#
Temperature	10.90	Deg. C		Field	#
METALS					
Calcium, Dissolved	13.7	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	8.5	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.3	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	3.3	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.2	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	27.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	25.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	9	mg/L	5	SM2320B-2011	#
Alkalinity, Total	9	mg/L	5	SM2320B-2011	#
Chloride	57.3	mg/L	0.50	EPA 300.0	#
Nitrate-N	8.7	mg/L	0.050	EPA 300.0	#
pH	7.17	pH_Units		S4500HB-11	#
Specific Conductance	308	umhos/cm	5	SM2510B-2011	#
Sulfate	10.8	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	186	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	02/12/2026 12:35
Lab Sample ID	3450967001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.23		pH_Units		Field	1	02/12/2026 12:35	E2P	P
Specific Conductance, Field	320		umhos/cm	1	Field	1	02/12/2026 12:35	E2P	P
Temperature	10.90		Deg. C		Field	1	02/12/2026 12:35	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	13.7		mg/L	0.10	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Calcium, Total	13.5		mg/L	0.050	EPA 200.7	1	02/20/2026 10:28	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:28	AAJ	D1
Magnesium, Dissolved	8.5		mg/L	0.10	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Magnesium, Total	8.3		mg/L	0.050	EPA 200.7	1	02/20/2026 10:28	AAJ	D1
Manganese, Dissolved	0.14		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Manganese, Total	0.14		mg/L	0.0025	EPA 200.7	1	02/20/2026 10:28	AAJ	D1
Potassium, Dissolved	3.3		mg/L	0.50	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Potassium, Total	3.2		mg/L	0.25	EPA 200.7	1	02/20/2026 10:28	AAJ	D1
Sodium, Dissolved	27.0		mg/L	0.50	EPA 200.7	1	02/19/2026 12:22	AAJ	F
Sodium, Total	25.6		mg/L	0.25	EPA 200.7	1	02/20/2026 10:28	AAJ	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	02/19/2026 18:42	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 18:42	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	92%	70 – 130	02/19/2026 18:42	

WET CHEMISTRY

Results

Client Sample ID 3076 River Road, Conestoga, PA
Lab Sample ID 3450967001

Collected 02/12/2026 12:35
Lab Receipt 02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	9		mg/L	5	SM2320B-2011	1	02/14/2026 09:14	TJH	A
Alkalinity, Total	9	1	mg/L	5	SM2320B-2011	1	02/14/2026 09:14	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 10:58	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	57.3		mg/L	0.50	EPA 300.0	2	02/13/2026 15:16	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 15:16	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/17/2026 16:59	PAG	K
Nitrate-N	8.7		mg/L	0.050	EPA 300.0	2	02/13/2026 15:16	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 15:16	J1W	A
pH	7.17	2	pH_Units		S4500HB-11	1	02/14/2026 09:14	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 17:55	A1L	J
Specific Conductance	308		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	10.8		mg/L	0.50	EPA 300.0	2	02/13/2026 15:16	J1W	A
Total Dissolved Solids	186		mg/L	25	SM2540C-15	1	02/16/2026 14:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450967001	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
3450967001	3076 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522577
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523001

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.

COC #: 3450967 of
ALS Quote
Logged By: SLS
PM: SIW

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	2/12/26	1235		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/12/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Temp (°C) 2

Receipt Info completed by: WV Containers 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: Evan P **ID:**

Comments: PH 5.23 temp 10.9°c Spc. 330

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	ALS EP	2	
		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 Lancaster Workorder 3450967

Temp °C 2° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/12/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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 3079 River Rd
Workorder 3450971
Report ID 497373 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3450971001	3079RIVERRD	Water	02/12/2026 14:30	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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	02/12/2026 14:30
Lab Sample ID	3450971001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	6.63	mg/L	0.01	Field	#
Oxidation-Reduction Potential	127	mV		Field	#
pH, Field (SM4500B)	5.60	pH_Units		Field	#
Specific Conductance, Field	199	umhos/cm	1	Field	#
Temperature	12.60	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.2	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.1	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	6.1	mg/L	0.10	EPA 200.7	#
Magnesium, Total	6.0	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.020	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.019	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	13.7	mg/L	0.50	EPA 200.7	#
Sodium, Total	13.9	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	30.4	mg/L	0.50	EPA 300.0	#
Nitrate-N	2.0	mg/L	0.050	EPA 300.0	#
Nitrite-N	0.22	mg/L	0.050	EPA 300.0	#
pH	7.68	pH_Units		S4500HB-11	#
Specific Conductance	185	umhos/cm	5	SM2510B-2011	#
Sulfate	9.9	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	163	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3079RIVERRD	Collected	02/12/2026 14:30
Lab Sample ID	3450971001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	6.63		mg/L	0.01	Field	1	02/12/2026 14:30	E2P	P
Oxidation-Reduction Potential	127		mV		Field	1	02/12/2026 14:30	E2P	P
pH, Field (SM4500B)	5.60		pH_Units		Field	1	02/12/2026 14:30	E2P	P
Specific Conductance, Field	199		umhos/cm	1	Field	1	02/12/2026 14:30	E2P	P
Temperature	12.60		Deg. C		Field	1	02/12/2026 14:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.2		mg/L	0.10	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Calcium, Total	11.1		mg/L	0.050	EPA 200.7	1	02/19/2026 09:45	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/19/2026 09:45	AAJ	D1
Magnesium, Dissolved	6.1		mg/L	0.10	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Magnesium, Total	6.0		mg/L	0.050	EPA 200.7	1	02/19/2026 09:45	AAJ	D1
Manganese, Dissolved	0.020		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Manganese, Total	0.019		mg/L	0.0025	EPA 200.7	1	02/19/2026 09:45	AAJ	D1
Potassium, Dissolved	1.9		mg/L	0.50	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Potassium, Total	1.9		mg/L	0.25	EPA 200.7	1	02/19/2026 09:45	AAJ	D1
Sodium, Dissolved	13.7		mg/L	0.50	EPA 200.7	1	02/19/2026 12:16	AAJ	F
Sodium, Total	13.9		mg/L	0.25	EPA 200.7	1	02/19/2026 09:45	AAJ	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	02/19/2026 19:51	CMQ	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/19/2026 19:51	CMQ	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	92%	70 – 130	02/19/2026 19:51	

Results

Client Sample ID	3079RIVERRD	Collected	02/12/2026 14:30
Lab Sample ID	3450971001	Lab Receipt	02/12/2026 17:30

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	23		mg/L	5	SM2320B-2011	1	02/14/2026 10:35	TJH	A
Alkalinity, Total	23	1	mg/L	5	SM2320B-2011	1	02/14/2026 10:35	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 11:08	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	30.4		mg/L	0.50	EPA 300.0	2	02/13/2026 16:47	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 16:47	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/18/2026 16:39	PAG	K
Nitrate-N	2.0		mg/L	0.050	EPA 300.0	2	02/13/2026 16:47	J1W	A
Nitrite-N	0.22		mg/L	0.050	EPA 300.0	2	02/13/2026 16:47	J1W	A
pH	7.68	2	pH_Units		S4500HB-11	1	02/14/2026 10:35	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 16:22	A1L	J
Specific Conductance	185		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	9.9		mg/L	0.50	EPA 300.0	2	02/13/2026 16:47	J1W	A
Total Dissolved Solids	163		mg/L	25	SM2540C-15	1	02/16/2025 14:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3450971001	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
3450971001	3079RIVERRD	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523127	02/18/2026 09:42	RMH	EPA 200.7	1523600
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523678
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522578
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523125

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.

COC #: 3450971 Logged By: SLS PM: SIW

ALS Quote #

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster Pa 17604

Contact: Dan Brown

Phone#: 717-553-5864

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	3079RIVERRD	2/12/26	1430		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/12/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: (°C) 1

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

Rad Screen (uCi)_____

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: Evon ID:

Comments: PH-5.60 temp-12.6c Spc-199 DO-6.63 ORP-187

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	AS EP	2	
		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 Lancaster Workorder 3450971

Temp °C 1° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/12/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
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 LCSWMA Quarterly
Workorder 3451083
Report ID 497563 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 13, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3451083001	3088RIVERRD	Water	02/13/2026 09:40	02/13/2026 11:30	EMP	ALS Environmental-Middletown

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	Analyte was analyzed past the 48 hour holding time.
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.

Detected Results Summary

Client Sample ID	3088RIVERRD	Collected	02/13/2026 09:40
Lab Sample ID	3451083001	Lab Receipt	02/13/2026 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	6.13	mg/L	0.01	Field	#
Oxidation-Reduction Potential	185	mV		Field	#
pH, Field (SM4500B)	6.57	pH_Units		Field	#
Specific Conductance, Field	981	umhos/cm	1	Field	#
Temperature	13.90	Deg. C		Field	#
METALS					
Calcium, Dissolved	0.52	mg/L	0.10	EPA 200.7	#
Calcium, Total	0.52	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	0.21	mg/L	0.10	EPA 200.7	#
Magnesium, Total	0.20	mg/L	0.050	EPA 200.7	#
Potassium, Dissolved	3.3	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.3	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	195	mg/L	0.50	EPA 200.7	#
Sodium, Total	180	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	132	mg/L	5	SM2320B-2011	#
Alkalinity, Total	132	mg/L	5	SM2320B-2011	#
Chloride	217	mg/L	1.3	EPA 300.0	#
Nitrate-N	6.0	mg/L	0.050	EPA 300.0	#
pH	7.96	pH_Units		S4500HB-11	#
Specific Conductance	989	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	522	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3088RIVERRD	Collected	02/13/2026 09:40
Lab Sample ID	3451083001	Lab Receipt	02/13/2026 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	6.13		mg/L	0.01	Field	1	02/13/2026 09:40	E2P	P
Oxidation-Reduction Potential	185		mV		Field	1	02/13/2026 09:40	E2P	P
pH, Field (SM4500B)	6.57		pH_Units		Field	1	02/13/2026 09:40	E2P	P
Specific Conductance, Field	981		umhos/cm	1	Field	1	02/13/2026 09:40	E2P	P
Temperature	13.90		Deg. C		Field	1	02/13/2026 09:40	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	0.52		mg/L	0.10	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Calcium, Total	0.52		mg/L	0.050	EPA 200.7	1	02/20/2026 10:19	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:19	AAJ	D1
Magnesium, Dissolved	0.21		mg/L	0.10	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Magnesium, Total	0.20		mg/L	0.050	EPA 200.7	1	02/20/2026 10:19	AAJ	D1
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	02/20/2026 10:19	AAJ	D1
Potassium, Dissolved	3.3		mg/L	0.50	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Potassium, Total	3.3		mg/L	0.25	EPA 200.7	1	02/20/2026 10:19	AAJ	D1
Sodium, Dissolved	195		mg/L	0.50	EPA 200.7	1	02/19/2026 12:12	AAJ	F
Sodium, Total	180		mg/L	0.25	EPA 200.7	1	02/20/2026 10:19	AAJ	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	02/20/2026 03:20	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:20	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	96.7%	70 – 130	02/20/2026 03:20	

Results

Client Sample ID	3088RIVERRD	Collected	02/13/2026 09:40
Lab Sample ID	3451083001	Lab Receipt	02/13/2026 11:30

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	132		mg/L	5	SM2320B-2011	1	02/18/2026 11:53	TJH	A
Alkalinity, Total	132	1	mg/L	5	SM2320B-2011	1	02/18/2026 11:53	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 14:07	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	217		mg/L	1.3	EPA 300.0	5	02/17/2026 17:12	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/16/2026 08:37	CRM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/18/2026 16:39	PAG	K
Nitrate-N	6.0	2	mg/L	0.050	EPA 300.0	2	02/16/2026 08:37	CRM	A
Nitrite-N	ND	ND,2	mg/L	0.050	EPA 300.0	2	02/16/2026 08:37	CRM	A
pH	7.96	3	pH_Units		S4500HB-11	1	02/18/2026 11:53	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 17:49	A1L	J
Specific Conductance	989		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	ND	ND	mg/L	0.50	EPA 300.0	2	02/16/2026 08:37	CRM	A
Total Dissolved Solids	522		mg/L	25	SM2540C-15	1	02/17/2026 13:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	02/14/2026 08:20	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3451083001	3088RIVERRD	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		EPA 524.2	N/A	
		EPA 300.0	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
3451083001	3088RIVERRD	N/A	N/A	N/A		Field	1524224
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		N/A	N/A	N/A		EPA 524.2	1523873
		N/A	N/A	N/A		EPA 300.0	1522929
		N/A	N/A	N/A		EPA 300.0	1522774
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1523009
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1522566
		N/A	N/A	N/A		SM2320B-2011	1523009
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522987
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523125

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.

COC #: 3451083 Logged By: MZP PM: SIW

ALS Quote #:

of

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	2/13/26	0940		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/13/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: MJ

*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 #__

Rad Screen (uCi)_____

New Source? Y N

New Source Contact:

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: Evan P **ID:**

Comments: PH-6.57 temp-13.9 SpC 981 DO 6.13 Orp 185

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-13-26	1126	1	AB FP	2	Maura 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 3451083

Temp °C 13 Therm ID 309 Ice? (Y) N N/A Initials & Date MNB 2-13-26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)				
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 LCSWMA Quarterly
Workorder 3451084
Report ID 497564 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 13, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3451084001	3100RIVERRD	Water	02/13/2026 08:30	02/13/2026 11:30	EMP	ALS Environmental-Middletown

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	Analyte was analyzed past the 48 hour holding time.
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.

Detected Results Summary

Client Sample ID	3100RIVERRD	Collected	02/13/2026 08:30
Lab Sample ID	3451084001	Lab Receipt	02/13/2026 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	2.80	mg/L	0.01	Field	#
Oxidation-Reduction Potential	197	mV		Field	#
pH, Field (SM4500B)	5.63	pH_Units		Field	#
Specific Conductance, Field	257	umhos/cm	1	Field	#
Temperature	13.60	Deg. C		Field	#
METALS					
Calcium, Dissolved	12.6	mg/L	0.10	EPA 200.7	#
Calcium, Total	12.8	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	7.3	mg/L	0.10	EPA 200.7	#
Magnesium, Total	7.3	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	1.6	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	19.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	19.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	15	mg/L	5	SM2320B-2011	#
Alkalinity, Total	15	mg/L	5	SM2320B-2011	#
Chloride	52.4	mg/L	0.50	EPA 300.0	#
Nitrate-N	4.0	mg/L	0.050	EPA 300.0	#
pH	7.07	pH_Units		S4500HB-11	#
Specific Conductance	237	umhos/cm	5	SM2510B-2011	#
Sulfate	6.1	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	156	mg/L	25	SM2540C-15	#
Turbidity	0.30	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3100RIVERRD	Collected	02/13/2026 08:30
Lab Sample ID	3451084001	Lab Receipt	02/13/2026 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	2.80		mg/L	0.01	Field	1	02/13/2026 08:30	E2P	P
Oxidation-Reduction Potential	197		mV		Field	1	02/13/2026 08:30	E2P	P
pH, Field (SM4500B)	5.63		pH_Units		Field	1	02/13/2026 08:30	E2P	P
Specific Conductance, Field	257		umhos/cm	1	Field	1	02/13/2026 08:30	E2P	P
Temperature	13.60		Deg. C		Field	1	02/13/2026 08:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	12.6		mg/L	0.10	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Calcium, Total	12.8		mg/L	0.050	EPA 200.7	1	02/19/2026 09:41	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/19/2026 09:41	AAJ	D1
Magnesium, Dissolved	7.3		mg/L	0.10	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Magnesium, Total	7.3		mg/L	0.050	EPA 200.7	1	02/19/2026 09:41	AAJ	D1
Manganese, Dissolved	0.012		mg/L	0.0050	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Manganese, Total	0.012		mg/L	0.0025	EPA 200.7	1	02/19/2026 09:41	AAJ	D1
Potassium, Dissolved	1.6		mg/L	0.50	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	02/19/2026 09:41	AAJ	D1
Sodium, Dissolved	19.8		mg/L	0.50	EPA 200.7	1	02/19/2026 12:14	AAJ	F
Sodium, Total	19.6		mg/L	0.25	EPA 200.7	1	02/19/2026 09:41	AAJ	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	02/20/2026 03:43	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 03:43	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	96.6%	70 – 130	02/20/2026 03:43	

Results

Client Sample ID	3100RIVERRD	Collected	02/13/2026 08:30
Lab Sample ID	3451084001	Lab Receipt	02/13/2026 11:30

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	15		mg/L	5	SM2320B-2011	1	02/18/2026 12:08	TJH	A
Alkalinity, Total	15	1	mg/L	5	SM2320B-2011	1	02/18/2026 12:08	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 14:10	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/18/2026 10:17	KMS	C
Chloride	52.4		mg/L	0.50	EPA 300.0	2	02/16/2026 08:50	CRM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/16/2026 08:50	CRM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/24/2026 16:43	PAG	K
Nitrate-N	4.0	2	mg/L	0.050	EPA 300.0	2	02/16/2026 08:50	CRM	A
Nitrite-N	ND	ND,2	mg/L	0.050	EPA 300.0	2	02/16/2026 08:50	CRM	A
pH	7.07	3	pH_Units		S4500HB-11	1	02/18/2026 12:08	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 17:32	A1L	J
Specific Conductance	237		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	6.1		mg/L	0.50	EPA 300.0	2	02/16/2026 08:50	CRM	A
Total Dissolved Solids	156		mg/L	25	SM2540C-15	1	02/17/2026 13:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	0.30		NTU	0.30	SM2130B-2011	1	02/14/2026 08:20	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3451084001	3100RIVERRD	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
3451084001	3100RIVERRD	N/A	N/A	N/A		Field	1524224
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		EPA TRMD	1523127	02/18/2026 09:42	RMH	EPA 200.7	1523600
		N/A	N/A	N/A		EPA 524.2	1523873
		N/A	N/A	N/A		EPA 300.0	1522774
		N/A	N/A	N/A		EPA 410.4	1523043
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1523009
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1522566
		N/A	N/A	N/A		SM2320B-2011	1523009
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522987
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1524303

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.

COC #: 3451084
ALS Quote #:
Logged By: MZP
PM: SIW

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

	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	3100RIVERRD	2/13/26	0830		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	2/13/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Receipt In
Temp Taken By: MUB
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	

Deviations? NO YES
If YES, list below:

Courier/Tracking #

Client contact:
Date/Tech:

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

Comments: PH-5.63 temp-1.36 Spc-257 DO-2.80 ORP 197

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-13-26	1130	1	ALS EP	2	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

right solutions. right partner.

Middletown Sample Condition Form

Client LCSWMA Workorder 3451084

Temp °C 5° Therm ID 309 Ice? (Y) N N/A Initials & Date MVB 2-13-26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)				
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:

_____

_____

_____

2/27/2026 3:42 PM

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 CONTIGUOUS LANDOWNER-3106 RIVE
Workorder 3451006
Report ID 497562 on 2/27/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 12, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3451006001	3106 River Road, Conestoga, PA	Water	02/12/2026 13:10	02/12/2026 17:30	EMP	ALS Environmental-Middletown

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	02/12/2026 13:10
Lab Sample ID	3451006001	Lab Receipt	02/12/2026 17:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.56	pH_Units		Field	#
Specific Conductance, Field	283	umhos/cm	1	Field	#
Temperature	6.80	Deg. C		Field	#
METALS					
Calcium, Dissolved	21.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	19.7	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	14.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	13.6	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.041	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.042	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.1	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.0	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	48.6	mg/L	0.50	EPA 200.7	#
Sodium, Total	48.6	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	117	mg/L	0.50	EPA 300.0	#
Nitrate-N	8.4	mg/L	0.050	EPA 300.0	#
pH	7.40	pH_Units		S4500HB-11	#
Specific Conductance	506	umhos/cm	5	SM2510B-2011	#
Sulfate	5.9	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	298	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.60	mg/L	0.50	SM5310B-14	#
Turbidity	0.30	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	02/12/2026 13:10
Lab Sample ID	3451006001	Lab Receipt	02/12/2026 17:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.56		pH_Units		Field	1	02/12/2026 13:10	E2P	P
Specific Conductance, Field	283		umhos/cm	1	Field	1	02/12/2026 13:10	E2P	P
Temperature	6.80		Deg. C		Field	1	02/12/2026 13:10	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	21.3	3	mg/L	0.10	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Calcium, Total	19.7		mg/L	0.050	EPA 200.7	1	02/20/2026 10:05	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	02/20/2026 10:05	AAJ	D1
Magnesium, Dissolved	14.4		mg/L	0.10	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Magnesium, Total	13.6		mg/L	0.050	EPA 200.7	1	02/20/2026 10:05	AAJ	D1
Manganese, Dissolved	0.041		mg/L	0.0050	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Manganese, Total	0.042		mg/L	0.0025	EPA 200.7	1	02/20/2026 10:05	AAJ	D1
Potassium, Dissolved	2.1		mg/L	0.50	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Potassium, Total	2.0		mg/L	0.25	EPA 200.7	1	02/20/2026 10:05	AAJ	D1
Sodium, Dissolved	48.6		mg/L	0.50	EPA 200.7	1	02/19/2026 11:59	AAJ	F
Sodium, Total	48.6		mg/L	0.25	EPA 200.7	1	02/20/2026 10:05	AAJ	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	02/20/2026 02:34	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	02/20/2026 02:34	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	94.1%	70 – 130	02/20/2026 02:34	

WET CHEMISTRY

Results

Client Sample ID 3106 River Road, Conestoga, PA
Lab Sample ID 3451006001

Collected 02/12/2026 13:10
Lab Receipt 02/12/2026 17:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	11		mg/L	5	SM2320B-2011	1	02/14/2026 18:53	TJH	A
Alkalinity, Total	11	1	mg/L	5	SM2320B-2011	1	02/14/2026 18:53	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	02/17/2026 13:50	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	02/17/2026 12:45	KMS	C
Chloride	117		mg/L	0.50	EPA 300.0	2	02/13/2026 19:48	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	02/13/2026 19:48	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	02/18/2026 16:39	PAG	K
Nitrate-N	8.4		mg/L	0.050	EPA 300.0	2	02/13/2026 19:48	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	02/13/2026 19:48	J1W	A
pH	7.40	2	pH_Units		S4500HB-11	1	02/14/2026 18:53	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	02/19/2026 17:42	A1L	J
Specific Conductance	506		umhos/cm	5	SM2510B-2011	1	02/17/2026 08:48	TJH	A
Sulfate	5.9		mg/L	0.50	EPA 300.0	2	02/13/2026 19:48	J1W	A
Total Dissolved Solids	298		mg/L	25	SM2540C-15	1	02/17/2026 13:50	RAG	A
Total Organic Carbon (TOC)	0.60		mg/L	0.50	SM5310B-14	1	02/17/2026 01:15	PAG	H
Turbidity	0.30		NTU	0.30	SM2130B-2011	1	02/13/2026 10:08	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3451006001	3106 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
3451006001	3106 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1524224
		EPA TRMD	1523477	02/19/2026 08:12	RMH	EPA 200.7	1523889
		EPA ACID	1523626	02/19/2026 09:10	AAJ	EPA 200.7	1523630
		N/A	N/A	N/A		EPA 524.2	1523873
		N/A	N/A	N/A		EPA 300.0	1519769
		N/A	N/A	N/A		EPA 410.4	1522746
		SW846 9066	1523641	02/19/2026 09:56	A1L	EPA 420.4	1523643
		N/A	N/A	N/A		S4500HB-11	1520071
		N/A	N/A	N/A		SM 4500-NH3G	1522870
		N/A	N/A	N/A		SM2130B-2011	1519868
		N/A	N/A	N/A		SM2320B-2011	1520071
		N/A	N/A	N/A		SM2510B-2011	1522740
		N/A	N/A	N/A		SM2540C-15	1522987
		N/A	N/A	N/A		SM5310B-14	1522768
		N/A	N/A	N/A		SW846 9020B	1523125

3451006

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.

COC #: 3451006
ALS Quote #:
Logged By: SLS
PM: SIW
of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-553-5864
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.									
1	~~3041RIVERRD~~ 3106 River Rd	2/12/26	~~1510~~ 0900		G	DW	2	2	1	3	1	1	2	2	1	
2	Trip Blank	2/12/26	NA		G	Di				3						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By:
Receipt Info completed by:
WV Containers 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: Evon P ID:

Comments: PH 5.56 temp. 6.8°C SC 283 DO 2/12/26

Date:	Time		Relinquished By / Company Name		Received By / Company Name
2-12-26	1730	1	ALS EP	2	
		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
EDDS: Format Type

Sample Disposal: Lab [x] Special [ ]

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 Workorder 3451006

Temp °C 1° Therm ID 309 Ice? (Y) N N/A Initials & Date DB 2/18/26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	X	✓		VL
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
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	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓		X	02/18/26
Field blanks present (Hg 1631, PFAS)			✓	
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 CONTIGUOUS LANDOWNER-3125 RIVE
Workorder 3453614
Report ID 503197 on 3/28/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Mar 13, 2026.

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 Stacey Welk (Project Coordinator) at (717) 944-5541.

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
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
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3453614001	3125 River Road, Conestoga, PA	Water	03/13/2026 08:45	03/13/2026 15:10	C	
3453614002	Trip Blank	Water	03/13/2026 00:00	03/13/2026 15:10	C	
3453614003	Field Blank	Water	03/13/2026 09:00	03/13/2026 15:10	C	

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	03/13/2026 08:45
Lab Sample ID	3453614001	Lab Receipt	03/13/2026 15:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.76	pH_Units		Field	#
Specific Conductance, Field	504	umhos/cm	1	Field	#
Temperature	14.50	Deg. C		Field	#
METALS					
Calcium, Dissolved	13.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.4	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	2.1	mg/L	0.10	EPA 200.7	#
Magnesium, Total	2.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.0070	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.0069	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	8.5	mg/L	0.50	EPA 200.7	#
Potassium, Total	8.6	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	82.6	mg/L	0.50	EPA 200.7	#
Sodium, Total	80.7	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	119	mg/L	5	SM2320B-21	#
Alkalinity, Total	119	mg/L	5	SM2320B-21	#
Chloride	75.3	mg/L	0.50	EPA 300.0	#
Nitrate-N	5.7	mg/L	0.050	EPA 300.0	#
pH	8.22	pH_Units		SM4500HB-21	#
Specific Conductance	514	umhos/cm	5	SM2510B-21	#
Sulfate	8.7	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	258	mg/L	25	SM2540C-20	#
Turbidity	0.40	NTU	0.30	SM2130B-20	#

Detected Results Summary

Client Sample ID	Field Blank	Collected	03/13/2026 09:00
Lab Sample ID	3453614003	Lab Receipt	03/13/2026 15:10

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methylene Chloride	1.6	ug/L	0.50	EPA 524.2	#

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	03/13/2026 08:45
Lab Sample ID	3453614001	Lab Receipt	03/13/2026 15:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.76		pH_Units		Field	1	03/13/2026 08:45	E2P	P
Specific Conductance, Field	504		umhos/cm	1	Field	1	03/13/2026 08:45	E2P	P
Temperature	14.50		Deg. C		Field	1	03/13/2026 08:45	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	13.3		mg/L	0.10	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Calcium, Total	13.4	3	mg/L	0.050	EPA 200.7	1	03/24/2026 10:27	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	03/24/2026 10:27	AAJ	D1
Magnesium, Dissolved	2.1		mg/L	0.10	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Magnesium, Total	2.1		mg/L	0.050	EPA 200.7	1	03/24/2026 10:27	AAJ	D1
Manganese, Dissolved	0.0070		mg/L	0.0050	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Manganese, Total	0.0069		mg/L	0.0025	EPA 200.7	1	03/24/2026 10:27	AAJ	D1
Potassium, Dissolved	8.5		mg/L	0.50	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Potassium, Total	8.6		mg/L	0.25	EPA 200.7	1	03/24/2026 10:27	AAJ	D1
Sodium, Dissolved	82.6		mg/L	0.50	EPA 200.7	1	03/19/2026 14:10	AAJ	F
Sodium, Total	80.7		mg/L	0.25	EPA 200.7	1	03/24/2026 10:27	AAJ	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	03/18/2026 18:56	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 18:56	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	95.1%	70 – 130	03/18/2026 18:56	

WET CHEMISTRY

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	03/13/2026 08:45
Lab Sample ID	3453614001	Lab Receipt	03/13/2026 15:10

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	119		mg/L	5	SM2320B-21	1	03/19/2026 22:41	TJH	A
Alkalinity, Total	119	1	mg/L	5	SM2320B-21	1	03/19/2026 22:41	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	03/19/2026 12:28	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	03/18/2026 15:23	KMS	C
Chloride	75.3		mg/L	0.50	EPA 300.0	2	03/14/2026 12:38	CRM	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	03/14/2026 12:38	CRM	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	03/27/2026 16:01	PAG	K
Nitrate-N	5.7		mg/L	0.050	EPA 300.0	2	03/14/2026 12:38	CRM	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	03/14/2026 12:38	CRM	A
pH	8.22	2	pH_Units		SM4500HB-21	1	03/19/2026 22:41	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	03/19/2026 18:24	A1L	J
Specific Conductance	514		umhos/cm	5	SM2510B-21	1	03/27/2026 13:22	TJH	A
Sulfate	8.7		mg/L	0.50	EPA 300.0	2	03/14/2026 12:38	CRM	A
Total Dissolved Solids	258		mg/L	25	SM2540C-20	1	03/19/2026 15:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	03/17/2026 21:20	PAG	H
Turbidity	0.40		NTU	0.30	SM2130B-20	1	03/14/2026 08:48	AOO	A

Results

Client Sample ID	Trip Blank	Collected	03/13/2026 00:00
Lab Sample ID	3453614002	Lab Receipt	03/13/2026 15:10

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	03/18/2026 14:21	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:21	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	94.6%	70 – 130	03/18/2026 14:21	

Results

Client Sample ID	Field Blank	Collected	03/13/2026 09:00
Lab Sample ID	3453614003	Lab Receipt	03/13/2026 15:10

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	03/18/2026 14:44	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Methylene Chloride	1.6		ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	03/18/2026 14:44	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	95.5%	70 – 130	03/18/2026 14:44	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3453614001	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3453614002	Trip Blank	EPA 524.2	N/A	
3453614003	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
3453614001	3125 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA TRMD	1528730	03/19/2026 17:06	RMH	EPA 200.7	1528823
		EPA ACID	1528638	03/19/2026 09:20	AAJ	EPA 200.7	1528645
		N/A	N/A	N/A		EPA 524.2	1528456
		N/A	N/A	N/A		EPA 300.0	1527700
		N/A	N/A	N/A		EPA 410.4	1528489
		SW846 9066	1528660	03/19/2026 09:51	A1L	EPA 420.4	1528661
		N/A	N/A	N/A		S4500NH3G-21	1528600
		N/A	N/A	N/A		SM2130B-20	1527695
		N/A	N/A	N/A		SM2320B-21	1528642
		N/A	N/A	N/A		SM2510B-21	1529983
		N/A	N/A	N/A		SM2540C-20	1528504
		N/A	N/A	N/A		SM4500HB-21	1528642
		N/A	N/A	N/A		SM5310B-14	1528285
		N/A	N/A	N/A		SW846 9020B	1529968
3453614002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1528456
3453614003	Field Blank	N/A	N/A	N/A		EPA 524.2	1528456

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.

COC #: 3453614 Logged By: DXB PM: SIW

ALS Quo

of

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	3/13/26	08:45		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	3/13/26	NA		G	Di				BZ RCh 3/13/26						
3	Field Blank	3/13/26	09:00		G	Di				3						
4																
5																
6																
7																
8																
9																
10																

Temp Taken By. Therm ID: 364 WO Temp (°C) 4

*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: EP **ID:**

Comments: PH-6.76, TEMP-14.5, SPC-504

Date:	Time	Relinquished By / Company Name		Received By / Company Name	
3/13/2026	1510	1 ALS EP		2	Relinquished 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

Middletown Sample Condition Form

Client LCSWMA Workorder 34536614

Temp °C 4 Therm ID 569 Ice? (Y) N N/A Initials & Date HCh 3-13-26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✱	
Sample Custody Seals present & intact			✱	
Chain-of-Custody present	✱			
Sample collector name present *If not present, must contact PM/client to request name.*	✱			
COC/bottle labels complete & in agreement		✱		
•Sample location	✱			
•Date and time of sample collection				
•Type(s) of preservation	✱			
•Number of containers		✱		UC
•Composite or grab	✱			
•Matrix				
Proper containers, preservation, and volume per method				
Received within hold time				
Containers intact				
Trip blanks present (EPA 504, EPA 524)	✱			
Field blanks present (Hg 1631, PFAS)			✱	
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:

_____

_____

_____