2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
07/01/2024
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) 05/10/2024 Sample Collection Time: 10:10 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/01/2024

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: 05/10/2024

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	13.8	EPA 200.7
CALCIUM, DISSOLVED	13.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	44	EPA 410.2
CHLORIDE	18.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.3	EPA 200.7
MAGNESIUM, DISSOLVED	10.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	20	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	18	EPA 200.7
NITRATE-NITROGEN	18	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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.95	FIELD
pH-LAB (SU)	7	SM4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	8.4	EPA 200.7
SODIUM, DISSOLVED	8.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	234	FIELD
SPEC. COND., LAB (umhos/cm)	224	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	8	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	188	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	8.4	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: 05/10/2024

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
07/01/2024
DEP USE ONLY
Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: MILLER

Address: 3052 RIVER ROAD

Phone No.:

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

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

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

Total Well Depth: ft.

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

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

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

Sample Date:(mm/dd/yy) 05/10/2024 Sample Collection Time: 10:28 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/01/2024

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: 05/10/2024

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	19.5	EPA 200.7
CALCIUM, DISSOLVED	19.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19.4	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	7.9	EPA 200.7
MAGNESIUM, DISSOLVED	7.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	14	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	13	EPA 200.7
NITRATE-NITROGEN	17.9	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 MILLER

Sample Date: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.61	FIELD
pH-LAB (SU)	6.64	SM4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.6	EPA 200.7
SODIUM, TOTAL	8.3	EPA 200.7
SODIUM, DISSOLVED	8.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	240	FIELD
SPEC. COND., LAB (umhos/cm)	234	EPA 120.1
SULFATE	2.6	EPA 300
ALKALINITY	9	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	191	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.6	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: 05/10/2024

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
07/01/2024
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) 05/10/2024 Sample Collection Time: 10:44 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/01/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	11.5	EPA 200.7
CALCIUM, DISSOLVED	11.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	25.2	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	12.1	EPA 200.7
MAGNESIUM, DISSOLVED	12.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	100	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	100	EPA 200.7
NITRATE-NITROGEN	17.6	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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.52	FIELD
pH-LAB (SU)	6.46	SM4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	2.2	EPA 200.7
SODIUM, TOTAL	8.6	EPA 200.7
SODIUM, DISSOLVED	8.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	249	FIELD
SPEC. COND., LAB (umhos/cm)	240	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	169	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: 05/10/2024

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.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
07/01/2024
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) 06/06/2024 Sample Collection Time: 11:43 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/17/2024

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: 06/06/2024

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
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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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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) 05/10/2024 Sample Collection Time: 11:00 AM

Laboratory(ies) Performing Analysis: ALS Environmental

(include address and phone number): 301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 05/30/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	17	SM20-2321
CALCIUM, TOTAL	11.7	EPA 200.7
CALCIUM, DISSOLVED	11.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	17.7	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	70	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.8	EPA 200.7
MAGNESIUM, DISSOLVED	12.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	110	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	110	EPA 200.7
NITRATE-NITROGEN	14.3	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.71	FIELD
pH-LAB (SU)	6.75	SM4500B
POTASSIUM, TOTAL	2.5	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	8.2	EPA 200.7
SODIUM, DISSOLVED	8.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	237	FIELD
SPEC. COND., LAB (umhos/cm)	241	EPA 120.1
SULFATE	14	EPA 300
ALKALINITY	17	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)	4.1	SM 2130B

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
07/01/2024
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: SENSENICH

Address: 3076 RIVER ROAD

Phone No.:

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

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

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

Total Well Depth: ft.

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

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

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

Sample Date:(mm/dd/yy) 05/10/2024 Sample Collection Time: 11:30 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/01/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	14.9	EPA 200.7
CALCIUM, DISSOLVED	14.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	55.6	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	8.8	EPA 200.7
MAGNESIUM, DISSOLVED	9.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	190	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	190	EPA 200.7
NITRATE-NITROGEN	10.2	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 SENSENICH

Sample Date: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.48	FIELD
pH-LAB (SU)	6.52	SM4500B
POTASSIUM, TOTAL	3.3	EPA 200.7
POTASSIUM, DISSOLVED	3.4	EPA 200.7
SODIUM, TOTAL	23.1	EPA 200.7
SODIUM, DISSOLVED	24	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	302	FIELD
SPEC. COND., LAB (umhos/cm)	311	EPA 120.1
SULFATE	13.7	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	208	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: 05/10/2024

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
07/01/2024
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) 05/10/2024 Sample Collection Time: 1:40 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/31/2024

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: 05/10/2024

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	9.9	EPA 200.7
CALCIUM, DISSOLVED	8.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	29.3	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	4.9	EPA 200.7
MAGNESIUM, DISSOLVED	4.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	21	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	20	EPA 200.7
NITRATE-NITROGEN	1.1	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.08	FIELD
pH-LAB (SU)	7.11	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	11.3	EPA 200.7
SODIUM, DISSOLVED	11.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	170	FIELD
SPEC. COND., LAB (umhos/cm)	164	EPA 120.1
SULFATE	7.2	EPA 300
ALKALINITY	23	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	114	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: 05/10/2024

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
07/01/2024
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: 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) 06/06/2024 Sample Collection Time: 11:50 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 06/18/2024

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: 06/06/2024

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
07/01/2024
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) 05/10/2024 Sample Collection Time: 12:18 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/30/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	203	SM20-2321
CALCIUM, TOTAL	9.5	EPA 200.7
CALCIUM, DISSOLVED	10.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	260	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	1.9	EPA 200.7
MAGNESIUM, DISSOLVED	2.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	14	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	16	EPA 200.7
NITRATE-NITROGEN	6.6	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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.29	FIELD
pH-LAB (SU)	8.33	SM4500B
POTASSIUM, TOTAL	0.48	EPA 200.7
POTASSIUM, DISSOLVED	0.5 ND	EPA 200.7
SODIUM, TOTAL	230	EPA 200.7
SODIUM, DISSOLVED	243	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	1210	FIELD
SPEC. COND., LAB (umhos/cm)	1220	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	217	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	658	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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
07/01/2024
DEP USE ONLY
Date Received

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

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: KIRCHNER

Address: 3100 RIVER ROAD

Phone No.:

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

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

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

Total Well Depth: ft.

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

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

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

Sample Date:(mm/dd/yy) 05/10/2024 Sample Collection Time: 12:42 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/31/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	21	SM20-2321
CALCIUM, TOTAL	13	EPA 200.7
CALCIUM, DISSOLVED	11.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	40.7	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	6.2	EPA 200.7
MAGNESIUM, DISSOLVED	5.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	9.4	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	9.1	EPA 200.7
NITRATE-NITROGEN	3.4	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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.01	FIELD
pH-LAB (SU)	6.94	SM4500B
POTASSIUM, TOTAL	1.4	EPA 200.7
POTASSIUM, DISSOLVED	1.5	EPA 200.7
SODIUM, TOTAL	14.9	EPA 200.7
SODIUM, DISSOLVED	15.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	221	FIELD
SPEC. COND., LAB (umhos/cm)	214	EPA 120.1
SULFATE	5.9	EPA 300
ALKALINITY	21	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	161	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 KIRCHNER

Sample Date: 05/10/2024

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
07/01/2024
DEP USE ONLY
Date Received

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

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: FRY

Address: 3106 RIVER ROAD

Phone No.:

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

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

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

Total Well Depth: ft.

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

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

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

Sample Date:(mm/dd/yy) 05/10/2024 Sample Collection Time: 1:05 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/31/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	20	SM20-2321
CALCIUM, TOTAL	17.6	EPA 200.7
CALCIUM, DISSOLVED	17.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	80.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11	EPA 200.7
MAGNESIUM, DISSOLVED	11.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	32	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	33	EPA 200.7
NITRATE-NITROGEN	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 FRY

Sample Date: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.99	FIELD
pH-LAB (SU)	7.05	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.7	EPA 200.7
SODIUM, TOTAL	32.4	EPA 200.7
SODIUM, DISSOLVED	33.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	380	FIELD
SPEC. COND., LAB (umhos/cm)	375	EPA 120.1
SULFATE	6	EPA 300
ALKALINITY	20	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	244	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.35	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS FRY

Sample Date: 05/10/2024

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
07/01/2024
DEP USE ONLY
Date Received

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

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: BECK

Address: 3125 RIVER ROAD

Phone No.:

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

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

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

Total Well Depth: ft.

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

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

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

Sample Date:(mm/dd/yy) 05/10/2024 Sample Collection Time: 1:30 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/31/2024

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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	179	SM20-2321
CALCIUM, TOTAL	0.14	EPA 200.7
CALCIUM, DISSOLVED	0.11	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	121	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	0.05 ND	EPA 200.7
MAGNESIUM, DISSOLVED	0.1 ND	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	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: 05/10/2024

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.17	FIELD
pH-LAB (SU)	8.15	SM4500B
POTASSIUM, TOTAL	0.48	EPA 200.7
POTASSIUM, DISSOLVED	0.5 ND	EPA 200.7
SODIUM, TOTAL	175	EPA 200.7
SODIUM, DISSOLVED	186	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	782	FIELD
SPEC. COND., LAB (umhos/cm)	792	EPA 120.1
SULFATE	24.8	EPA 300
ALKALINITY	179	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	462	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.53	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 BECK

Sample Date: 05/10/2024

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

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

T Please indicate detection limit if analyte is not detected.

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3060 RIVER RD
Workorder 3359226
Report ID 330366 on 6/21/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 06, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359226001	3060RIVERRD	Water	05/10/2024 11:00	05/10/2024 16:20	BGS	Analytical Laboratory Service
3363146001	3060RIVERRD	Water	06/06/2024 11:43	06/06/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID		
3359226001	3060RIVERRD	**S1**	Volatile organics EPA 524.2 data was not reported due to suspected laboratory contamination for trans-1,2-Dichloroethene that occurred during sample storage. The client was notified on 05/29/24. The locations were resampled. SJS 06/10/24

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	05/10/2024 11:00
Lab Sample ID	3359226001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.71	pH_Units		Field	#
Specific Conductance, Field	237	umhos/cm	1	Field	#
Temperature	15.57	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.7	mg/L	0.050	EPA 200.7	#
Iron, Total	0.070	mg/L	0.030	EPA 200.7	#
Magnesium, Dissolved	12.2	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.11	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.11	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.5	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.3	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.2	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	17	mg/L	5	SM2320B-2011	#
Alkalinity, Total	17	mg/L	5	SM2320B-2011	#
Chloride	17.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	14.3	mg/L	1.0	EPA 300.0	#
pH	6.75	pH_Units		S4500HB-11	#
Specific Conductance	241	umhos/cm	5	SM2510B-2011	#
Sulfate	14.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	162	mg/L	25	SM2540C-15	#
Turbidity	4.1	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3060RIVERRD	Collected	05/10/2024 11:00
Lab Sample ID	3359226001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.71	S1	pH_Units		Field	1	05/10/2024 11:00	BGS	P
Specific Conductance, Field	237	S1	umhos/cm	1	Field	1	05/10/2024 11:00	BGS	P
Temperature	15.57	S1	Deg. C		Field	1	05/10/2024 11:00	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.5	S1	mg/L	0.10	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Calcium, Total	11.7	S1	mg/L	0.050	EPA 200.7	1	05/18/2024 12:19	AXW	D1
Iron, Dissolved	ND	ND,S1	mg/L	0.060	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Iron, Total	0.070	S1	mg/L	0.030	EPA 200.7	1	05/18/2024 12:19	AXW	D1
Magnesium, Dissolved	12.2	S1	mg/L	0.10	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Magnesium, Total	11.8	S1	mg/L	0.050	EPA 200.7	1	05/18/2024 12:19	AXW	D1
Manganese, Dissolved	0.11	S1	mg/L	0.0050	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Manganese, Total	0.11	S1	mg/L	0.0025	EPA 200.7	1	05/18/2024 12:19	AXW	D1
Potassium, Dissolved	2.4	S1	mg/L	0.50	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Potassium, Total	2.5	S1	mg/L	0.25	EPA 200.7	1	05/18/2024 12:19	AXW	D1
Sodium, Dissolved	8.3	S1	mg/L	0.50	EPA 200.7	1	05/15/2024 10:06	AXW	F1
Sodium, Total	8.2	S1	mg/L	0.25	EPA 200.7	1	05/18/2024 12:19	AXW	D1

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	17	S1	mg/L	5	SM2320B-2011	1	05/16/2024 04:08	KMV	A
Alkalinity, Total	17	1,S1	mg/L	5	SM2320B-2011	1	05/16/2024 04:08	KMV	A
Ammonia-N, Low Level	ND	ND,S1	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:57	NML	C
Chemical Oxygen Demand (COD)	ND	ND,S1	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	17.7	S1	mg/L	2.0	EPA 300.0	2	05/11/2024 13:35	J1W	A
Fluoride	ND	ND,S1	mg/L	0.20	EPA 300.0	2	05/11/2024 13:35	J1W	A
Halogen, Total Organic (TOX)	ND	ND,S1	ug/L	20.0	SW846 9020B	1	05/30/2024 18:00	PAG	K
Nitrate-N	14.3	S1	mg/L	1.0	EPA 300.0	2	05/11/2024 13:35	J1W	A
Nitrite-N	ND	ND,S1	mg/L	1.0	EPA 300.0	2	05/11/2024 13:35	J1W	A
pH	6.75	2,S1	pH_Units		S4500HB-11	1	05/16/2024 04:08	KMV	A
Phenolics	ND	ND,S1	mg/L	0.005	EPA 420.4	1	05/15/2024 13:12	AKH	J
Specific Conductance	241	S1	umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	14.0	S1	mg/L	2.0	EPA 300.0	2	05/11/2024 13:35	J1W	A
Total Dissolved Solids	162	S1	mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND,S1	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	4.1	S1	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Results

Client Sample ID	3060RIVERRD	Collected	06/06/2024 11:43
Lab Sample ID	3363146001	Lab Receipt	06/06/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/17/2024 16:33	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	96.5%	70 – 130	06/17/2024 16:33	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359226001	3060RIVERRD	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		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	
3363146001	3060RIVERRD	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
3359226001	3060RIVERRD	N/A	N/A	N/A		Field	1201211
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210439
3363146001	3060RIVERRD	N/A	N/A	N/A		EPA 524.2	1223312

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.

3359226

Logged By: SLS
PM: SJB

1226 of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike PO Box 4424
Lancaster PA 17604

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

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

Date Required: Approved?
Email? [ ]

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

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3060RIVERRD	5/10/24	1100		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

(completed by Receiving Lab)

Temp By: DPB | WO Temp (°C): 3° | Therm ID: 571 | WO Temp (°C)

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Cooler & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
CR6 Samples Filtered	Y	N	NA
OP Samples Filtered	Y	N	NA
VOA Trip Blank	Y	N	NA
NJs 4 Days?	Y	N	
Rad Screen (uCi)			
Courier/Tracking #:			

SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

s 0-6°C Y N NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

ad Screen (uCi)_____
w Source? Y N
w 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: RE Wicker ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5-10-24	1620	1	RE Wicker ALS	2	DSG/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

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

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3359226

3146 of

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

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike PO Box 4424
Lancaster PA 17604

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

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

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

	Container Type	Container Size	Preservative
	CG	40ml	ASCHCL

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)	EPA 524.2 Form 52	
1	3060RIVERRD	6/6/24	1143		G	DW	3	
2	Trip Blank	6/6/24	1620		G	Di	2	
3								
4								
5								
6								
7								
8								
9								
10								

Temp By: LZC | WO Temp (°C): 2 | Therm ID: S24

Receipt Info Completed By: LZC
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N NA
VOA Trip Blank Y N NA
NJ≤ 4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #:
SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

mation (completed by Receiving Lab)
Therm ID: WO Temp (°C)

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below

Client contact:
Date/Tech:

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

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

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
6/6/24	1620	1	[signature] ALS	2	[signature]
		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

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3079 RIVER RD
Workorder 3359236
Report ID 325894 on 5/31/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

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

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359236001	3079RIVERRD	Water	05/10/2024 13:40	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3079RIVERRD	Collected	05/10/2024 13:40
Lab Sample ID	3359236001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	7.08	pH_Units		Field	#
Specific Conductance, Field	170	umhos/cm	1	Field	#
Temperature	14.49	Deg. C		Field	#
METALS					
Calcium, Dissolved	8.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	9.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	4.5	mg/L	0.10	EPA 200.7	#
Magnesium, Total	4.9	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.020	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.021	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.8	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	11.6	mg/L	0.50	EPA 200.7	#
Sodium, Total	11.3	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	29.3	mg/L	2.0	EPA 300.0	#
Halogen, Total Organic (TOX)	34.8	ug/L	20.0	SW846 9020B	#
Nitrate-N	1.1	mg/L	1.0	EPA 300.0	#
pH	7.11	pH_Units		S4500HB-11	#
Specific Conductance	164	umhos/cm	5	SM2510B-2011	#
Sulfate	7.2	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	114	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3079RIVERRD	Collected	05/10/2024 13:40
Lab Sample ID	3359236001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	7.08		pH_Units		Field	1	05/10/2024 13:40	BGS	P
Specific Conductance, Field	170		umhos/cm	1	Field	1	05/10/2024 13:40	BGS	P
Temperature	14.49		Deg. C		Field	1	05/10/2024 13:40	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	8.5		mg/L	0.10	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Calcium, Total	9.9		mg/L	0.050	EPA 200.7	1	05/18/2024 12:30	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:30	AXW	D1
Magnesium, Dissolved	4.5		mg/L	0.10	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Magnesium, Total	4.9		mg/L	0.050	EPA 200.7	1	05/18/2024 12:30	AXW	D1
Manganese, Dissolved	0.020		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Manganese, Total	0.021		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:30	AXW	D1
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	05/18/2024 12:30	AXW	D1
Sodium, Dissolved	11.6		mg/L	0.50	EPA 200.7	1	05/15/2024 10:19	AXW	F1
Sodium, Total	11.3		mg/L	0.25	EPA 200.7	1	05/18/2024 12:30	AXW	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	05/23/2024 17:17	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/23/2024 17:17	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.7%	70 – 130	05/23/2024 17:17	

WET CHEMISTRY

Results

Client Sample ID	3079RIVERRD	Collected	05/10/2024 13:40
Lab Sample ID	3359236001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	23		mg/L	5	SM2320B-2011	1	05/16/2024 05:14	KMV	A
Alkalinity, Total	23	1	mg/L	5	SM2320B-2011	1	05/16/2024 05:14	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/20/2024 13:23	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	29.3		mg/L	2.0	EPA 300.0	2	05/11/2024 14:33	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 14:33	J1W	A
Halogen, Total Organic (TOX)	34.8		ug/L	20.0	SW846 9020B	1	05/31/2024 16:57	PAG	K
Nitrate-N	1.1		mg/L	1.0	EPA 300.0	2	05/11/2024 14:33	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 14:33	J1W	A
pH	7.11	2	pH_Units		S4500HB-11	1	05/16/2024 05:14	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 14:21	AKH	J
Specific Conductance	164		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	7.2		mg/L	2.0	EPA 300.0	2	05/11/2024 14:33	J1W	A
Total Dissolved Solids	114		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359236001	3079RIVERRD	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
3359236001	3079RIVERRD	N/A	N/A	N/A		Field	1201211
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		N/A	N/A	N/A		EPA 524.2	1208586
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1205502
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210659

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.

3359236

Logged By: SLS
PM: SJB

236 of

(Completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Temp By: DPB | WO Temp (°C) 4° | Therm ID 571

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Cooler & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes		N	
CR6 Samples Filtered	Y	N	NA
OP Samples Filtered	Y	N	NA
VOA Trip Blank		N	NA
NJ≤ 4 Days?	Y		
Rad Screen (uCi)			
Courier/Tracking #:			
SDWA Compliance	Y		
PWSID			
WV Containers 0-6°C	Y	N	NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Rad Screen (uCi)_____

New Source? Y N

New Source Contact:

PWS Contact:_____ PWS Phone #:_____

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike PO Box 4424
Lancaster Pa 17604

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

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

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

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

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	5/10/24	1340		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

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

Sample/COC Remarks

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

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

Comments:

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

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3076 RIVER RD
Workorder 3359220
Report ID 326092 on 6/4/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359220001	3076 River Road, Conestoga, PA	Water	05/10/2024 11:30	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3076 River Road, Conestoga, PA	Collected	05/10/2024 11:30
Lab Sample ID	3359220001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.48	pH_Units		Field	#
Specific Conductance, Field	302	umhos/cm	1	Field	#
Temperature	14.15	Deg. C		Field	#
METALS					
Calcium, Dissolved	14.6	mg/L	0.10	EPA 200.7	#
Calcium, Total	14.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.1	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.19	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.19	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	3.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.3	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	24.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	23.1	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	7	mg/L	5	SM2320B-2011	#
Alkalinity, Total	7	mg/L	5	SM2320B-2011	#
Chloride	55.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.2	mg/L	1.0	EPA 300.0	#
pH	6.52	pH_Units		S4500HB-11	#
Specific Conductance	311	umhos/cm	5	SM2510B-2011	#
Sulfate	13.7	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	208	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	05/10/2024 11:30
Lab Sample ID	3359220001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.48		pH_Units		Field	1	05/10/2024 11:30	BGS	P
Specific Conductance, Field	302		umhos/cm	1	Field	1	05/10/2024 11:30	BGS	P
Temperature	14.15		Deg. C		Field	1	05/10/2024 11:30	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	14.6	3	mg/L	0.10	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Calcium, Total	14.9		mg/L	0.050	EPA 200.7	1	05/18/2024 12:13	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:13	AXW	D1
Magnesium, Dissolved	9.1		mg/L	0.10	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Magnesium, Total	8.8		mg/L	0.050	EPA 200.7	1	05/18/2024 12:13	AXW	D1
Manganese, Dissolved	0.19		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Manganese, Total	0.19		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:13	AXW	D1
Potassium, Dissolved	3.4		mg/L	0.50	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Potassium, Total	3.3		mg/L	0.25	EPA 200.7	1	05/18/2024 12:13	AXW	D1
Sodium, Dissolved	24.0		mg/L	0.50	EPA 200.7	1	05/15/2024 10:20	AXW	F1
Sodium, Total	23.1		mg/L	0.25	EPA 200.7	1	05/18/2024 12:13	AXW	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	05/22/2024 13:52	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:52	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.8%	70 – 130	05/22/2024 13:52	

WET CHEMISTRY

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	05/10/2024 11:30
Lab Sample ID	3359220001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	7		mg/L	5	SM2320B-2011	1	05/16/2024 03:44	KMV	A
Alkalinity, Total	7	1	mg/L	5	SM2320B-2011	1	05/16/2024 03:44	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:45	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 11:30	KMS	C
Chloride	55.6		mg/L	2.0	EPA 300.0	2	05/11/2024 12:49	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 12:49	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	06/01/2024 18:21	NPF	K
Nitrate-N	10.2		mg/L	1.0	EPA 300.0	2	05/11/2024 12:49	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 12:49	J1W	A
pH	6.52	2	pH_Units		S4500HB-11	1	05/16/2024 03:44	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 13:08	AKH	J
Specific Conductance	311		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	13.7		mg/L	2.0	EPA 300.0	2	05/11/2024 12:49	J1W	A
Total Dissolved Solids	208		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359220001	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
3359220001	3076 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1207811
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200621
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210456

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.

3359220
Logged By: SLS
PM: SJB

of

(Receiving Lab)

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	5/10/24	1130		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1130		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Temp By: ORB | WO Temp (°C): 2 | Therm ID: 571

Receipt Info Completed By: DPB
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N
VOA Trip Blank Y N
NJ≤ 4 Days? Y N NA
Rad Screen (uCi) Y N
Courier/Tracking #:

SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

Containers 0-6°C Y N NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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: [illegible] **ID:**

Comments:

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

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3088 RIVER RD
Workorder 3359229
Report ID 329840 on 6/20/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

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

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359229001	3088 River Road, Conestoga PA	Water	05/10/2024 12:18	05/10/2024 16:20	BGS	Analytical Laboratory Service
3363154001	3088 River Road, Conestoga PA	Water	06/06/2024 11:50	06/06/2024 16:20	BGS	Analytical Laboratory Service
3363154002	Field Blank	Water	06/06/2024 11:55	06/06/2024 16:20	BGS	Analytical Laboratory Service
3363154003	Trip Blank	Water	06/06/2024 16:20	06/06/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID		
3359229001	3088 River Road, Conestoga PA	**S1**	Volatile organics EPA 524.2 data was not reported due to suspected laboratory contamination for trans-1,2-Dichloroethene that occurred during sample storage. The client was notified on 05/29/24. The locations were resampled. SJS 06/10/24

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	3088 River Road, Conestoga PA	Collected	05/10/2024 12:18
Lab Sample ID	3359229001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	8.29	pH_Units		Field	#
Specific Conductance, Field	1210	umhos/cm	1	Field	#
Temperature	15.73	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	9.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	2.2	mg/L	0.10	EPA 200.7	#
Magnesium, Total	1.9	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.016	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.014	mg/L	0.0025	EPA 200.7	#
Potassium, Total	0.48	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	243	mg/L	0.50	EPA 200.7	#
Sodium, Total	230	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	203	mg/L	5	SM2320B-2011	#
Alkalinity, Total	217	mg/L	5	SM2320B-2011	#
Chloride	260	mg/L	5.0	EPA 300.0	#
Halogen, Total Organic (TOX)	135	ug/L	20.0	SW846 9020B	#
Nitrate-N	6.6	mg/L	1.0	EPA 300.0	#
pH	8.33	pH_Units		S4500HB-11	#
Specific Conductance	1220	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	658	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	05/10/2024 12:18
Lab Sample ID	3359229001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	8.29	S1	pH_Units		Field	1	05/10/2024 12:18	BGS	P
Specific Conductance, Field	1210	S1	umhos/cm	1	Field	1	05/10/2024 12:18	BGS	P
Temperature	15.73	S1	Deg. C		Field	1	05/10/2024 12:18	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.3	S1	mg/L	0.10	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Calcium, Total	9.5	S1	mg/L	0.050	EPA 200.7	1	05/18/2024 12:21	AXW	D1
Iron, Dissolved	ND	ND,S1	mg/L	0.060	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Iron, Total	ND	ND,S1	mg/L	0.030	EPA 200.7	1	05/18/2024 12:21	AXW	D1
Magnesium, Dissolved	2.2	S1	mg/L	0.10	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Magnesium, Total	1.9	S1	mg/L	0.050	EPA 200.7	1	05/18/2024 12:21	AXW	D1
Manganese, Dissolved	0.016	S1	mg/L	0.0050	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Manganese, Total	0.014	S1	mg/L	0.0025	EPA 200.7	1	05/18/2024 12:21	AXW	D1
Potassium, Dissolved	ND	ND,S1	mg/L	0.50	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Potassium, Total	0.48	S1	mg/L	0.25	EPA 200.7	1	05/18/2024 12:21	AXW	D1
Sodium, Dissolved	243	S1	mg/L	0.50	EPA 200.7	1	05/15/2024 10:11	AXW	F1
Sodium, Total	230	S1	mg/L	0.25	EPA 200.7	1	05/18/2024 12:21	AXW	D1

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	203	S1	mg/L	5	SM2320B-2011	1	05/16/2024 04:24	KMV	A
Alkalinity, Total	217	1,S1	mg/L	5	SM2320B-2011	1	05/16/2024 04:24	KMV	A
Ammonia-N, Low Level	ND	ND,S1	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:06	NML	C
Chemical Oxygen Demand (COD)	ND	ND,S1	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	260	S1	mg/L	5.0	EPA 300.0	5	05/15/2024 18:52	J1W	A
Fluoride	ND	ND,S1	mg/L	0.20	EPA 300.0	2	05/11/2024 13:47	J1W	A
Halogen, Total Organic (TOX)	135	S1	ug/L	20.0	SW846 9020B	1	05/30/2024 18:00	PAG	K
Nitrate-N	6.6	S1	mg/L	1.0	EPA 300.0	2	05/11/2024 13:47	J1W	A
Nitrite-N	ND	ND,S1	mg/L	1.0	EPA 300.0	2	05/11/2024 13:47	J1W	A
pH	8.33	2,S1	pH_Units		S4500HB-11	1	05/16/2024 04:24	KMV	A
Phenolics	ND	ND,S1	mg/L	0.005	EPA 420.4	1	05/15/2024 13:39	AKH	J
Specific Conductance	1220	S1	umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	ND	ND,S1	mg/L	2.0	EPA 300.0	2	05/11/2024 13:47	J1W	A
Total Dissolved Solids	658	S1	mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND,S1	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND,S1	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	06/06/2024 11:50
Lab Sample ID	3363154001	Lab Receipt	06/06/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 17:27	ILY	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	95.8%	70 – 130	06/18/2024 17:27	

Results

Client Sample ID	Field Blank	Collected	06/06/2024 11:55
Lab Sample ID	3363154002	Lab Receipt	06/06/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:08	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	98.7%	70 – 130	06/18/2024 13:08	

Results

Client Sample ID	Trip Blank	Collected	06/06/2024 16:20
Lab Sample ID	3363154003	Lab Receipt	06/06/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/18/2024 13:34	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	95.5%	70 – 130	06/18/2024 13:34	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359229001	3088 River Road, Conestoga PA	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		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	
3363154001	3088 River Road, Conestoga PA	EPA 524.2	N/A	
3363154002	Field Blank	EPA 524.2	N/A	
3363154003	Trip 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
3359229001	3088 River Road, Conestoga PA	N/A	N/A	N/A		Field	1201211
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 300.0	1202808
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210439
3363154001	3088 River Road, Conestoga PA	N/A	N/A	N/A		EPA 524.2	1223592
3363154002	Field Blank	N/A	N/A	N/A		EPA 524.2	1223592
3363154003	Trip Blank	N/A	N/A	N/A		EPA 524.2	1223592

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.

3359229

Logged By: SLS
PM: SJB

1229 of

(completed by Receiving Lab)

Client Name: LCSWMA Hans Weber and Deb Kalbach

Address: 3088 River Rd
Conestoga Pa 17516

Contact: Hans Weber and Deb Kalbach

Phone#: 717-419-7982

Project Name/#: LCSWMA Quarterly

Bill To: LCSWMA Hans Weber and Deb Kalbach

Purchase Order #:

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

Date Required: Approved?

Email? [ ]

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

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3088RIVERRD	5/10/24	1218		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Temp By:	WO Temp (°C)	Therm ID
CMB	3	571

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice		N	NA
Cooler & Samples Intact	Y	N	
Correct Containers Provided		N	
Sample Label/COC Agree		N	
Adequate Sample Volumes		N	
CR6 Samples Filtered	Y	N	NA
OP Samples Filtered	Y	N	NA
VOA Trip Blank		N	NA
NJ≤ 4 Days?	Y		
Rad Screen (uCi)			
Courier/Tracking #:			
SDWA Compliance	Y		
PWSID			
WV Containers 0-6°C	Y	N	

rs 0-6°C Y N NA

Deviations? NO YES
If YES, list below

Client contact:
Date/Tech

ad Screen (uCi)_____

w Source? Y N

w 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: KD Shindle ID:

Comments:

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

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

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.

3359229 | 154 | 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	CG	AN	AN	CG		P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	ASCHCL	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)	EPA 524.2 Form 52	TOX	O-OH	EPA 524.2 Form 52 TOC	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	3088RIVERRD	6/6/24	1150		G	DW	3	2	1	3	x	1	2	2	1	1
2	Field Blank	6/6/24	1155		G	Di	2			2						
3	Trip Blank	6/6/24	1620		G	Di	2									
4																
5																
6																
7																
8																
9																
10																

(Completed by Receiving Lab)
Temp Taken By: Therm ID: WO Temp (°C)
Receipt Info completed by:______ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	

Deviations? NO YES
If YES, list below:

Adequate Sample
VOA only: Trip Bla
NJ ≤ 4 days?
Courier/Tracking #
Sample(s) for Radi
Reportable SDWA
SDWA State of Ori
PWSID #
PWS Contact:
SDWA Sample T
R=Raw

Temp By:	WO Temp (°C)	Therm ID
LZC	6°	524

Receipt Info Completed By:	LZC
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NJ≤ 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	
SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

Contains Short Hold Testing YES NO

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
6-6-24	1620	1	[signature] ALS	2	[signature]
		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

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR-2024 3100 RIVER RD
Workorder 3359230
Report ID 325891 on 5/31/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359230001	3100 River Road, Conestoga, PA	Water	05/10/2024 12:42	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3100 River Road, Conestoga, PA	Collected	05/10/2024 12:42
Lab Sample ID	3359230001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	7.01	pH_Units		Field	#
Specific Conductance, Field	221	umhos/cm	1	Field	#
Temperature	15.61	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.0	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	5.9	mg/L	0.10	EPA 200.7	#
Magnesium, Total	6.2	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.0091	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.0094	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.5	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	15.3	mg/L	0.50	EPA 200.7	#
Sodium, Total	14.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	21	mg/L	5	SM2320B-2011	#
Alkalinity, Total	21	mg/L	5	SM2320B-2011	#
Chloride	40.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	3.4	mg/L	1.0	EPA 300.0	#
pH	6.94	pH_Units		S4500HB-11	#
Specific Conductance	214	umhos/cm	5	SM2510B-2011	#
Sulfate	5.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	161	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	05/10/2024 12:42
Lab Sample ID	3359230001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	7.01		pH_Units		Field	1	05/10/2024 12:42	BGS	P
Specific Conductance, Field	221		umhos/cm	1	Field	1	05/10/2024 12:42	BGS	P
Temperature	15.61		Deg. C		Field	1	05/10/2024 12:42	BGS	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	05/15/2024 10:12	AXW	F1
Calcium, Total	13.0		mg/L	0.050	EPA 200.7	1	05/18/2024 12:22	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:12	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:22	AXW	D1
Magnesium, Dissolved	5.9		mg/L	0.10	EPA 200.7	1	05/15/2024 10:12	AXW	F1
Magnesium, Total	6.2		mg/L	0.050	EPA 200.7	1	05/18/2024 12:22	AXW	D1
Manganese, Dissolved	0.0091		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:12	AXW	F1
Manganese, Total	0.0094		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:22	AXW	D1
Potassium, Dissolved	1.5		mg/L	0.50	EPA 200.7	1	05/15/2024 10:12	AXW	F1
Potassium, Total	1.4		mg/L	0.25	EPA 200.7	1	05/18/2024 12:22	AXW	D1
Sodium, Dissolved	15.3		mg/L	0.50	EPA 200.7	1	05/15/2024 10:12	AXW	F1
Sodium, Total	14.9		mg/L	0.25	EPA 200.7	1	05/18/2024 12:22	AXW	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	05/22/2024 18:37	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 18:37	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	92%	70 – 130	05/22/2024 18:37	

WET CHEMISTRY

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	05/10/2024 12:42
Lab Sample ID	3359230001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	21		mg/L	5	SM2320B-2011	1	05/16/2024 04:37	KMV	A
Alkalinity, Total	21	1	mg/L	5	SM2320B-2011	1	05/16/2024 04:37	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 13:18	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	40.7		mg/L	2.0	EPA 300.0	2	05/11/2024 13:58	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 13:58	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/31/2024 16:57	PAG	K
Nitrate-N	3.4		mg/L	1.0	EPA 300.0	2	05/11/2024 13:58	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 13:58	J1W	A
pH	6.94	2	pH_Units		S4500HB-11	1	05/16/2024 04:37	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 14:13	AKH	J
Specific Conductance	214		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	5.9		mg/L	2.0	EPA 300.0	2	05/11/2024 13:58	J1W	A
Total Dissolved Solids	161		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359230001	3100 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3359230001	3100 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1207811
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210659

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.

3359230
Logged By: SLS
PM: SJB

of

(Completed by Receiving Lab)

Temp Taken By: DPB | Therm ID: 571 | WO Temp (°C): 48

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N NA
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NJ≤ 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	
SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

Deviations? NO YES
If YES, list below.

Client contact:
Date/Tech:

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

PWS Contact:_____ PWS Phone #:_____

Client Name: LCSWMA Larry Kirchner

Address: 3100 River Rd
Conestoga Pa 17516

Contact: Larry 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	Container Size	Preservative
	AG	40ml	HCL
	AN	250ml	H2SO4
	AN	125ml	H2SO4
	CG	40ml	ASCHCL
	P	250ml	H2SO4
	P	125ml	HNO3
	P	125ml	HNO3
	P	1L	UNP
		500ml	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	5/10/24	1242		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

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: Kyle Shaak ID:

Comments:

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

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

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3106 RIVER RD
Workorder 3359231
Report ID 325892 on 5/31/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359231001	3106 River Road, Conestoga, PA	Water	05/10/2024 13:05	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3106 River Road, Conestoga, PA	Collected	05/10/2024 13:05
Lab Sample ID	3359231001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.99	pH_Units		Field	#
Specific Conductance, Field	380	umhos/cm	1	Field	#
Temperature	14.27	Deg. C		Field	#
METALS					
Calcium, Dissolved	17.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	17.6	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.3	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.0	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.033	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.032	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.7	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	33.1	mg/L	0.50	EPA 200.7	#
Sodium, Total	32.4	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	20	mg/L	5	SM2320B-2011	#
Alkalinity, Total	20	mg/L	5	SM2320B-2011	#
Chloride	80.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	8.0	mg/L	1.0	EPA 300.0	#
pH	7.05	pH_Units		S4500HB-11	#
Specific Conductance	375	umhos/cm	5	SM2510B-2011	#
Sulfate	6.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	244	mg/L	25	SM2540C-15	#
Turbidity	0.35	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	05/10/2024 13:05
Lab Sample ID	3359231001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.99		pH_Units		Field	1	05/10/2024 13:05	BGS	P
Specific Conductance, Field	380		umhos/cm	1	Field	1	05/10/2024 13:05	BGS	P
Temperature	14.27		Deg. C		Field	1	05/10/2024 13:05	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	17.4		mg/L	0.10	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Calcium, Total	17.6		mg/L	0.050	EPA 200.7	1	05/18/2024 12:26	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:26	AXW	D1
Magnesium, Dissolved	11.3		mg/L	0.10	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Magnesium, Total	11.0		mg/L	0.050	EPA 200.7	1	05/18/2024 12:26	AXW	D1
Manganese, Dissolved	0.033		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Manganese, Total	0.032		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:26	AXW	D1
Potassium, Dissolved	1.7		mg/L	0.50	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	05/18/2024 12:26	AXW	D1
Sodium, Dissolved	33.1		mg/L	0.50	EPA 200.7	1	05/15/2024 10:18	AXW	F1
Sodium, Total	32.4		mg/L	0.25	EPA 200.7	1	05/18/2024 12:26	AXW	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	05/22/2024 19:02	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:02	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	94.3%	70 – 130	05/22/2024 19:02	

WET CHEMISTRY

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	05/10/2024 13:05
Lab Sample ID	3359231001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	20		mg/L	5	SM2320B-2011	1	05/16/2024 04:51	KMV	A
Alkalinity, Total	20	1	mg/L	5	SM2320B-2011	1	05/16/2024 04:51	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:03	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	80.8		mg/L	2.0	EPA 300.0	2	05/11/2024 14:10	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 14:10	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/31/2024 16:57	PAG	K
Nitrate-N	8.0		mg/L	1.0	EPA 300.0	2	05/11/2024 14:10	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 14:10	J1W	A
pH	7.05	2	pH_Units		S4500HB-11	1	05/16/2024 04:51	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 14:02	AKH	J
Specific Conductance	375		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	6.0		mg/L	2.0	EPA 300.0	2	05/11/2024 14:10	J1W	A
Total Dissolved Solids	244		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	0.35		NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359231001	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
3359231001	3106 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1207811
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210659

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.

3359231
Logged By: SLS
PM: SJB

of

Client Name: LCSWMA Aaron Fry

Address: 3106 River Rd
Conestoga Pa 17516

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

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

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

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

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3106RIVERRD	5/10/24	1305		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

Temp By: DPB | WO Temp (°C): 3° | Therm ID: 571

Receipt Info Completed By: DPB
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N
VOA Trip Blank Y N
NJ≤ 4 Days?
Rad Screen (uCi)
Courier/Tracking #:

SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

ers 0-6°C Y N NA
Deviations? NO YES
If YES, list below:
Client contact:
Date/Tech:

ad Screen (uCi)_____
ew Source? Y N
ew 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: KG Shoaf **ID:**

Comments:

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

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

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024-3125 RIVER RD
Workorder 3359232
Report ID 325893 on 5/31/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359232001	3125 River Road, Conestoga, PA	Water	05/10/2024 13:30	05/10/2024 16:20	BGS	Analytical Laboratory Service
3359232002	Field Blank	Water	05/10/2024 14:00	05/10/2024 16:20	BGS	Analytical Laboratory Service
3359232003	Trip Blank	Water	05/10/2024 16:20	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3125 River Road, Conestoga, PA	Collected	05/10/2024 13:30
Lab Sample ID	3359232001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	8.17	pH_Units		Field	#
Specific Conductance, Field	782	umhos/cm	1	Field	#
Temperature	14.76	Deg. C		Field	#
METALS					
Calcium, Dissolved	0.11	mg/L	0.10	EPA 200.7	#
Calcium, Total	0.14	mg/L	0.050	EPA 200.7	#
Potassium, Total	0.48	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	186	mg/L	0.50	EPA 200.7	#
Sodium, Total	175	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	179	mg/L	5	SM2320B-2011	#
Alkalinity, Total	179	mg/L	5	SM2320B-2011	#
Chloride	121	mg/L	2.0	EPA 300.0	#
Halogen, Total Organic (TOX)	76.8	ug/L	20.0	SW846 9020B	#
Nitrate-N	5.7	mg/L	1.0	EPA 300.0	#
pH	8.15	pH_Units		S4500HB-11	#
Specific Conductance	792	umhos/cm	5	SM2510B-2011	#
Sulfate	24.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	462	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.53	mg/L	0.50	SM5310B-14	#

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	05/10/2024 13:30
Lab Sample ID	3359232001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	8.17		pH_Units		Field	1	05/10/2024 13:30	BGS	P
Specific Conductance, Field	782		umhos/cm	1	Field	1	05/10/2024 13:30	BGS	P
Temperature	14.76		Deg. C		Field	1	05/10/2024 13:30	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	0.11		mg/L	0.10	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Calcium, Total	0.14		mg/L	0.050	EPA 200.7	1	05/18/2024 12:27	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:27	AXW	D1
Magnesium, Dissolved	ND	ND	mg/L	0.10	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Magnesium, Total	ND	ND	mg/L	0.050	EPA 200.7	1	05/18/2024 12:27	AXW	D1
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	05/18/2024 12:27	AXW	D1
Potassium, Dissolved	ND	ND	mg/L	0.50	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Potassium, Total	0.48		mg/L	0.25	EPA 200.7	1	05/18/2024 12:27	AXW	D1
Sodium, Dissolved	186		mg/L	0.50	EPA 200.7	1	05/15/2024 10:09	AXW	F1
Sodium, Total	175		mg/L	0.25	EPA 200.7	1	05/18/2024 12:27	AXW	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	05/22/2024 19:28	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 19:28	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.6%	70 – 130	05/22/2024 19:28	

WET CHEMISTRY

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	05/10/2024 13:30
Lab Sample ID	3359232001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	179		mg/L	5	SM2320B-2011	1	05/16/2024 05:02	KMV	A
Alkalinity, Total	179	1	mg/L	5	SM2320B-2011	1	05/16/2024 05:02	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 13:21	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	121		mg/L	2.0	EPA 300.0	2	05/11/2024 14:21	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 14:21	J1W	A
Halogen, Total Organic (TOX)	76.8		ug/L	20.0	SW846 9020B	1	05/31/2024 16:57	PAG	K
Nitrate-N	5.7		mg/L	1.0	EPA 300.0	2	05/11/2024 14:21	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 14:21	J1W	A
pH	8.15	2	pH_Units		S4500HB-11	1	05/16/2024 05:02	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 12:37	AKH	J
Specific Conductance	792		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	24.8		mg/L	2.0	EPA 300.0	2	05/11/2024 14:21	J1W	A
Total Dissolved Solids	462		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	0.53		mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Results

Client Sample ID	Field Blank	Collected	05/10/2024 14:00
Lab Sample ID	3359232002	Lab Receipt	05/10/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 12:34	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	94.7%	70 – 130	05/22/2024 12:34	

Results

Client Sample ID	Trip Blank	Collected	05/10/2024 16:20
Lab Sample ID	3359232003	Lab Receipt	05/10/2024 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 13:00	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	95.3%	70 – 130	05/22/2024 13:00	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359232001	3125 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3359232002	Field Blank	EPA 524.2	N/A	
3359232003	Trip 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
3359232001	3125 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1207811
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210659
3359232002	Field Blank	N/A	N/A	N/A		EPA 524.2	1207811
3359232003	Trip Blank	N/A	N/A	N/A		EPA 524.2	1207811

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.

3359232
Logged By: SLS
PM: SJB

of

(by Receiving Lab)

Client Name: LCSWMA Christian C. Beck

Address: 3125 River Rd
Conestoga Pa 17516

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

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

Date Required: Approved?
Email? [ ]

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

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3125RIVERRD	5/10/24	1330		G	DW	2	2	1	3	x	1	2	2	1	1
2	Field Blank	5/10/24	1400		G	Di				2						
3	Trip Blank	5/10/24	1620		G	Di				2						
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)
Receipt Info completed by:
WV Containers 0-6°C Y N NA

Temp By: DPB | WO Temp (°C): 3° | Therm ID: 31

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Cooler & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	NA
CR6 Samples Filtered	Y	N	NA
OP Samples Filtered	Y	N	NA
VOA Trip Blank		N	NA
NJ≤ 4 Days?	Y		
Rad Screen (uCi)			
Courier/Tracking #:			
SDWA Compliance	Y		
PWSID			
WV Containers 0-6°C	Y	N	NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/10/24	1620	1	[signature] ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024 3052 RIVER RD
Workorder 3359219
Report ID 326093 on 6/4/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359219001	3052 River Road, Conestoga, PA	Water	05/10/2024 10:28	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 62.1 and the control limits were 80 to 120.
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	3052 River Road, Conestoga, PA	Collected	05/10/2024 10:28
Lab Sample ID	3359219001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.61	pH_Units		Field	#
Specific Conductance, Field	240	umhos/cm	1	Field	#
Temperature	14.32	Deg. C		Field	#
METALS					
Calcium, Dissolved	19.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	19.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	7.9	mg/L	0.10	EPA 200.7	#
Magnesium, Total	7.9	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.013	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.014	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.6	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.6	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.5	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.3	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	19.4	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.9	mg/L	1.0	EPA 300.0	#
pH	6.64	pH_Units		S4500HB-11	#
Specific Conductance	234	umhos/cm	5	SM2510B-2011	#
Sulfate	2.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	191	mg/L	25	SM2540C-15	#
Turbidity	0.60	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	05/10/2024 10:28
Lab Sample ID	3359219001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.61		pH_Units		Field	1	05/10/2024 10:28	BGS	P
Specific Conductance, Field	240		umhos/cm	1	Field	1	05/10/2024 10:28	BGS	P
Temperature	14.32		Deg. C		Field	1	05/10/2024 10:28	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	19.5		mg/L	0.10	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Calcium, Total	19.5		mg/L	0.050	EPA 200.7	1	05/18/2024 12:12	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:12	AXW	D1
Magnesium, Dissolved	7.9		mg/L	0.10	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Magnesium, Total	7.9		mg/L	0.050	EPA 200.7	1	05/18/2024 12:12	AXW	D1
Manganese, Dissolved	0.013		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Manganese, Total	0.014		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:12	AXW	D1
Potassium, Dissolved	1.6		mg/L	0.50	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Potassium, Total	1.6		mg/L	0.25	EPA 200.7	1	05/18/2024 12:12	AXW	D1
Sodium, Dissolved	8.5		mg/L	0.50	EPA 200.7	1	05/15/2024 10:07	AXW	F1
Sodium, Total	8.3		mg/L	0.25	EPA 200.7	1	05/18/2024 12:12	AXW	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	05/21/2024 19:19	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 19:19	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	88.4%	70 – 130	05/21/2024 19:19	

WET CHEMISTRY

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	05/10/2024 10:28
Lab Sample ID	3359219001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	9		mg/L	5	SM2320B-2011	1	05/16/2024 03:32	KMV	A
Alkalinity, Total	9	1	mg/L	5	SM2320B-2011	1	05/16/2024 03:32	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 13:54	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 11:30	KMS	C
Chloride	19.4		mg/L	2.0	EPA 300.0	2	05/11/2024 12:04	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 12:04	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	06/01/2024 18:21	NPF	K
Nitrate-N	17.9	2	mg/L	1.0	EPA 300.0	2	05/11/2024 12:04	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 12:04	J1W	A
pH	6.64	3	pH_Units		S4500HB-11	1	05/16/2024 03:32	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 13:04	AKH	J
Specific Conductance	234		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	2.6		mg/L	2.0	EPA 300.0	2	05/11/2024 12:04	J1W	A
Total Dissolved Solids	191		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	0.60		NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359219001	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
3359219001	3052 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1206509
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200621
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210456

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.

3359219

Logged By: SLS
PM: SJB

of

Client Name: LCSWMA Gerald E Miller Sr

Address: 3052 River Rd
Conestoga PA 17516

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

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

	Container Type	Container Size	Preservative
1	AG	40ml	HCL
2	AN	250ml	H2SO4
3	AN	125ml	H2SO4
4	CG	40ml	ASCHCL
5			
6	P	250ml	H2SO4
7	P	125ml	HNO3
8	P	125ml	HNO3
9	P	1L	UNP
10	P	500ml	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	3052RIVERRD	5/10/24	1028		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	K20		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

(Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Temp By: DPB | WO Temp (°C): 2° | Therm ID: 511

Containers 0-6°C Y N NA

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y N	NA
Sample Custody Seal Intact	Y N	NA
Received on Ice	Y N	NA
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N	NA
OP Samples Filtered	Y N	NA
VOA Trip Blank	Y N	NA
NJ≤ 4 Days?	Y N	
Rad Screen (uCi)		
Courier/Tracking #:		
SDWA Compliance	Y N	
PWSID		
WV Containers 0-6°C	Y N	NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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: RG Shade **ID:**

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/10/24	K20	1	RG Shade ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

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

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
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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 2ND QTR 2024-3056 RIVER RD
Workorder 3359224
Report ID 326090 on 6/4/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359224001	3056RIVERRD	Water	05/10/2024 10:44	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
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  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.
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- 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.

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U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3056RIVERRD	Collected	05/10/2024 10:44
Lab Sample ID	3359224001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.52	pH_Units		Field	#
Specific Conductance, Field	249	umhos/cm	1	Field	#
Temperature	15.68	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.7	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	12.7	mg/L	0.10	EPA 200.7	#
Magnesium, Total	12.1	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	2.2	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.1	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.9	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	6	mg/L	5	SM2320B-2011	#
Alkalinity, Total	6	mg/L	5	SM2320B-2011	#
Chloride	25.2	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.6	mg/L	1.0	EPA 300.0	#
pH	6.46	pH_Units		S4500HB-11	#
Specific Conductance	240	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	169	mg/L	25	SM2540C-15	#

Results

Client Sample ID	3056RIVERRD	Collected	05/10/2024 10:44
Lab Sample ID	3359224001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.52		pH_Units		Field	1	05/10/2024 10:44	BGS	P
Specific Conductance, Field	249		umhos/cm	1	Field	1	05/10/2024 10:44	BGS	P
Temperature	15.68		Deg. C		Field	1	05/10/2024 10:44	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.7		mg/L	0.10	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Calcium, Total	11.5		mg/L	0.050	EPA 200.7	1	05/18/2024 12:17	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:17	AXW	D1
Magnesium, Dissolved	12.7		mg/L	0.10	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Magnesium, Total	12.1		mg/L	0.050	EPA 200.7	1	05/18/2024 12:17	AXW	D1
Manganese, Dissolved	0.10		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Manganese, Total	0.10		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:17	AXW	D1
Potassium, Dissolved	2.2		mg/L	0.50	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Potassium, Total	2.1		mg/L	0.25	EPA 200.7	1	05/18/2024 12:17	AXW	D1
Sodium, Dissolved	8.9		mg/L	0.50	EPA 200.7	1	05/15/2024 10:05	AXW	F1
Sodium, Total	8.6		mg/L	0.25	EPA 200.7	1	05/18/2024 12:17	AXW	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	05/22/2024 15:10	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/22/2024 15:10	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.4%	70 – 130	05/22/2024 15:10	

WET CHEMISTRY

Results

Client Sample ID	3056RIVERRD	Collected	05/10/2024 10:44
Lab Sample ID	3359224001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	6		mg/L	5	SM2320B-2011	1	05/16/2024 03:55	KMV	A
Alkalinity, Total	6	1	mg/L	5	SM2320B-2011	1	05/16/2024 03:55	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:51	NML	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/13/2024 15:18	KMS	C
Chloride	25.2		mg/L	2.0	EPA 300.0	2	05/11/2024 13:24	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 13:24	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	06/01/2024 18:21	NPF	K
Nitrate-N	17.6		mg/L	1.0	EPA 300.0	2	05/11/2024 13:24	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 13:24	J1W	A
pH	6.46	2	pH_Units		S4500HB-11	1	05/16/2024 03:55	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 13:16	AKH	J
Specific Conductance	240		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	05/11/2024 13:24	J1W	A
Total Dissolved Solids	169		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359224001	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
3359224001	3056RIVERRD	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1207811
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200906
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210456

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.

3359224
Logged By: SLS
PM: SJB

1 of

Client Name: Lancaster County Solid Waste MA
Address: 1299 Harrisburg pike PO Box 4424
Lancaster PA 17604
Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:
TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

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

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

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	3056RIVERRD	5/10/24	1044		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1600		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client
Name: KS Shoalt ID:
Comments:

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

(Receiving Lab)

Temp By: DAB | WO Temp (°C) 3° | Therm ID 571

Receipt Info Completed By: DPB
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N NA
VOA Trip Blank Y N NA
NJ≤ 4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #:

SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

WO Temp (°C)
iners 0-6°C Y N NA
NA NA NA NA
Deviations? NO YES
If YES, list below:
Client contact:
Date/Tech:
Rad Screen (uCi)____
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

* 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

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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 2ND QTR 2024 3044 RIVER RD
Workorder 3359218
Report ID 326094 on 6/4/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 10, 2024.

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

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

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

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3359218001	3044 River Road, Conestoga, PA	Water	05/10/2024 10:10	05/10/2024 16:20	BGS	Analytical Laboratory Service

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	3044 River Road, Conestoga, PA	Collected	05/10/2024 10:10
Lab Sample ID	3359218001	Lab Receipt	05/10/2024 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.95	pH_Units		Field	#
Specific Conductance, Field	234	umhos/cm	1	Field	#
Temperature	14.66	Deg. C		Field	#
METALS					
Calcium, Dissolved	13.6	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.8	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	10.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.018	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.020	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.8	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.8	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.5	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.4	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	#
Chemical Oxygen Demand (COD)	44	mg/L	15	EPA 410.4	#
Chloride	18.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	18.0	mg/L	1.0	EPA 300.0	#
pH	7.00	pH_Units		S4500HB-11	#
Specific Conductance	224	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	188	mg/L	25	SM2540C-15	#
Turbidity	8.4	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	05/10/2024 10:10
Lab Sample ID	3359218001	Lab Receipt	05/10/2024 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.95		pH_Units		Field	1	05/10/2024 10:10	BGS	P
Specific Conductance, Field	234		umhos/cm	1	Field	1	05/10/2024 10:10	BGS	P
Temperature	14.66		Deg. C		Field	1	05/10/2024 10:10	BGS	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	13.6		mg/L	0.10	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Calcium, Total	13.8		mg/L	0.050	EPA 200.7	1	05/18/2024 12:07	AXW	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/18/2024 12:07	AXW	D1
Magnesium, Dissolved	10.4		mg/L	0.10	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Magnesium, Total	10.3		mg/L	0.050	EPA 200.7	1	05/18/2024 12:07	AXW	D1
Manganese, Dissolved	0.018		mg/L	0.0050	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Manganese, Total	0.020		mg/L	0.0025	EPA 200.7	1	05/18/2024 12:07	AXW	D1
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Potassium, Total	1.8		mg/L	0.25	EPA 200.7	1	05/18/2024 12:07	AXW	D1
Sodium, Dissolved	8.5		mg/L	0.50	EPA 200.7	1	05/15/2024 10:08	AXW	F1
Sodium, Total	8.4		mg/L	0.25	EPA 200.7	1	05/18/2024 12:07	AXW	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	05/21/2024 18:54	ILY	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/21/2024 18:54	ILY	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.1%	70 – 130	05/21/2024 18:54	

WET CHEMISTRY

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	05/10/2024 10:10
Lab Sample ID	3359218001	Lab Receipt	05/10/2024 16:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	8		mg/L	5	SM2320B-2011	1	05/16/2024 02:45	KMV	A
Alkalinity, Total	8	1	mg/L	5	SM2320B-2011	1	05/16/2024 02:45	KMV	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/14/2024 14:42	NML	C
Chemical Oxygen Demand (COD)	44		mg/L	15	EPA 410.4	1	05/13/2024 11:30	KMS	C
Chloride	18.1		mg/L	2.0	EPA 300.0	2	05/11/2024 11:52	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/11/2024 11:52	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	06/01/2024 18:21	NPF	K
Nitrate-N	18.0		mg/L	1.0	EPA 300.0	2	05/11/2024 11:52	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/11/2024 11:52	J1W	A
pH	7.00	2	pH_Units		S4500HB-11	1	05/16/2024 02:45	KMV	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/15/2024 13:19	AKH	J
Specific Conductance	224		umhos/cm	5	SM2510B-2011	1	05/14/2024 15:05	BLP	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	05/11/2024 11:52	J1W	A
Total Dissolved Solids	188		mg/L	25	SM2540C-15	1	05/13/2024 14:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2024 23:47	PAG	H
Turbidity	8.4		NTU	0.30	SM2130B-2011	1	05/11/2024 14:06	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3359218001	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
3359218001	3044 River Road, Conestoga, PA	N/A	N/A	N/A		Field	1201211
		EPA TRMD	1202455	05/14/2024 21:58	ANN	EPA 200.7	1206074
		EPA ACID	1201314	05/14/2024 09:52	AXW	EPA 200.7	1202357
		N/A	N/A	N/A		EPA 524.2	1206509
		N/A	N/A	N/A		EPA 300.0	1199706
		N/A	N/A	N/A		EPA 410.4	1200621
		SW846 9066	1202403	05/14/2024 07:49	AKH	EPA 420.4	1202906
		N/A	N/A	N/A		S4500HB-11	1202962
		N/A	N/A	N/A		SM 4500-NH3G	1201010
		N/A	N/A	N/A		SM2130B-2011	1199711
		N/A	N/A	N/A		SM2320B-2011	1202962
		N/A	N/A	N/A		SM2510B-2011	1202432
		N/A	N/A	N/A		SM2540C-15	1200631
		N/A	N/A	N/A		SM5310B-14	1201426
		N/A	N/A	N/A		SW846 9020B	1210456

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.

3359218
Logged By: SLS
PM: SJB

18 of

(Completed by Receiving Lab)

Temp By: DPB | WO Temp (°C): 3° | Therm ID: 571

Receipt Info Completed By: DPB

Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NJ≤ 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	
SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

Coolers 0-6°C Y N NA
Deviations? NO YES
If YES, list below:
Client contact:
Date/Tech:
Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike PO Box 4424
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-735-0193
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:
TAT [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: **Approved?**
Email? [ ]

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

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3044RIVERRD	5/10/24	1010		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/10/24	1620		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

PWS Contact:_____ PWS Phone #:_____

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5-10-24	1620	1	[signature] ALS	2	DAGLAS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023