2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD MM' SS.S")

Monitoring Point Number: CWMP007W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 o 57 ' 24.53 " — Longitude: 76 o 26 ' 33.28 "

Depth to Water Level: 5.62 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.50 ft — Elevation of Water Level: 447.78 ft./MSL

Sampling Depth: 33 ft — Volume of Water Column: 45.35 gal

Total Well Depth: 36.5 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.3

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/14/2025 — Sample Collection Time: 10:10

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425445001 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP007W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	12	SM18-2321
CALCIUM, TOTAL	20.1	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	73.7	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	67 ND	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	10.3	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	7.3	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	9.4	EPA 300.0
pH-FIELD (SU)	4.83	FIELD
pH-LAB (SU)	7.03	EPA 150.1
POTASSIUM, TOTAL	2.3	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	37.3	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	392	FIELD
SPEC. COND., LAB (umhos/cm)	372	EPA 120.1
SULFATE	18	EPA 300.0
ALKALINITY	12	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	258	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP007W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

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

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General Reference: Section 273.284
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Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP001W — X Well ___ Spring ___ Stream ___ Other

X Upgradient/Upstream ___ Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 27.43 " — Longitude: 76 ° 26 ' 14.4 "

Depth to Water Level: 28.63 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.23 ft — Elevation of Water Level: 486.5 ft./MSL

Sampling Depth: 57 ft — Volume of Water Column: 55.32 gal

Total Well Depth: 66.3 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 2.2

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

Spring Flow Rate: ___ gpm

Sample Date (mm/dd/yy): 7/14/2025 — Sample Collection Time: 11:02

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425445002 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP001W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	7	SM18-2321
CALCIUM, TOTAL	15	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	27.3	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	500	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	10.4	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	56	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	17.2	EPA 300.0
pH-FIELD (SU)	5.12	FIELD
pH-LAB (SU)	6.87	EPA 150.1
POTASSIUM, TOTAL	2.3	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	14.4	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	259	FIELD
SPEC. COND., LAB (umhos/cm)	252	EPA 120.1
SULFATE	2.3	EPA 300.0
ALKALINITY	7	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	488	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	19	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP001W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

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

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MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP005W — X Well ___ Spring ___ Stream ___ Other

X Upgradient/Upstream ___ Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 11.17 " — Longitude: 76 ° 26 ' 7.08 "

Depth to Water Level: 43.9 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -0.37 ft — Elevation of Water Level: 469.53 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 141.14 gal

Total Well Depth: 140 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.1

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/14/2025 — Sample Collection Time: 13:07

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425445003 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP005W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	17	SM18-2321
CALCIUM, TOTAL	17.2	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	75.6	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	67 ND	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	8.7	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	51	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	7.3	EPA 300.0
pH-FIELD (SU)	4.93	FIELD
pH-LAB (SU)	7.28	EPA 150.1
POTASSIUM, TOTAL	2.3	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	36.8	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	367	FIELD
SPEC. COND., LAB (umhos/cm)	358	EPA 120.1
SULFATE	5.8	EPA 300.0
ALKALINITY	17	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	1090	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.65	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP005W
Sample Date	7/14/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

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

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP016W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 56 ' 55.57 " — Longitude: 76 ° 26 ' 50.59 "

Depth to Water Level: 6.67 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.53 ft — Elevation of Water Level: 305.3 ft./MSL

Sampling Depth: 71 ft — Volume of Water Column: ___ gal

Total Well Depth: 78.03 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.1

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

Spring Flow Rate: ___ gpm

Sample Date (mm/dd/yy): 7/15/2025 — Sample Collection Time: 10:33

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425591001 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP016W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	8	SM18-2321
CALCIUM, TOTAL	5.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	2.8	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	67 ND	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	1.4	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	1.8	EPA 300.0
pH-FIELD (SU)	4.88	FIELD
pH-LAB (SU)	7.19	EPA 150.1
POTASSIUM, TOTAL	0.56 ND	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	3.5	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	63	FIELD
SPEC. COND., LAB (umhos/cm)	64	EPA 120.1
SULFATE	9.5	EPA 300.0
ALKALINITY	8	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	54	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2.2	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP016W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP010W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 2.38 " — Longitude: 76 ° 26 ' 57.92 "

Depth to Water Level: 8.32 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.10 ft — Elevation of Water Level: 352.58 ft./MSL

Sampling Depth: 17 ft — Volume of Water Column: 7.36 gal

Total Well Depth: 19.6 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.4

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/15/2025 — Sample Collection Time: 11:54

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425591002 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP010W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	83	SM18-2321
CALCIUM, TOTAL	22.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	22	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	140	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	14.1	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	12	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	7.2	EPA 300.0
pH-FIELD (SU)	6.12	FIELD
pH-LAB (SU)	8.02	EPA 150.1
POTASSIUM, TOTAL	2.7	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	22.8	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	307	FIELD
SPEC. COND., LAB (umhos/cm)	310	EPA 120.1
SULFATE	15.4	EPA 300.0
ALKALINITY	83	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	212	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	2.9	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	3.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP010W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP009W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 10.82 " — Longitude: 76 ° 26 ' 55.8 "

Depth to Water Level: 8.68 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.70 ft — Elevation of Water Level: 395.52 ft./MSL

Sampling Depth: 16 ft — Volume of Water Column: 7.19 gal

Total Well Depth: 19.7 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 2.7

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/15/2025 — Sample Collection Time: 12:37

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425591003 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP009W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	27.8	EPA 350.3
BICARBONATE	538	SM18-2321
CALCIUM, TOTAL	188	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	112	EPA 410.4
CHLORIDE	690	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	36800	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	93.4	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	12900	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	2.5 ND	EPA 300.0
pH-FIELD (SU)	5.98	FIELD
pH-LAB (SU)	7.87	EPA 150.1
POTASSIUM, TOTAL	33.1	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	222	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	3175	FIELD
SPEC. COND., LAB (umhos/cm)	5 ND	EPA 120.1
SULFATE	8.5	EPA 300.0
ALKALINITY	538	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	1840	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	40.1	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	16	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP009W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	2.2	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.2	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP008W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 16.97 " — Longitude: 76 ° 26 ' 47.58 "

Depth to Water Level: 1.52 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.80 ft — Elevation of Water Level: 420.78 ft./MSL

Sampling Depth: 19 ft — Volume of Water Column: 3.47 gal

Total Well Depth: 22.8 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 3.2

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/15/2025 — Sample Collection Time: 13:31

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425591004 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP008W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	4.38	EPA 350.3
BICARBONATE	292	SM18-2321
CALCIUM, TOTAL	53.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	17	EPA 410.4
CHLORIDE	21.9	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	17600	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	24.2	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	12100	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300.0
pH-FIELD (SU)	6.12	FIELD
pH-LAB (SU)	7.83	EPA 150.1
POTASSIUM, TOTAL	6.9	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	28.4	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	654	FIELD
SPEC. COND., LAB (umhos/cm)	616	EPA 120.1
SULFATE	7	EPA 300.0
ALKALINITY	292	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	374	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	6.3	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	4.4	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP008W
Sample Date	7/15/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.7	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP017S — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 20.41 " — Longitude: 76 ° 26 ' 45.1 "

Depth to Water Level: _____ ft — Measured from: ___ Land Surface X TOC

Casing Stickup: _____ ft — Elevation of Water Level: #Error ft./MSL

Sampling Depth: 0 ft — Volume of Water Column: #Error gal

Total Well Depth: _____ ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: _____

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/16/2025 — Sample Collection Time: 9:30

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425870001 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP017S
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	280	SM18-2321
CALCIUM, TOTAL	54	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	17	EPA 410.4
CHLORIDE	299	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	670	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	55.3	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	450	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	17.9	EPA 300.0
pH-FIELD (SU)	7.9	FIELD
pH-LAB (SU)	8.5	EPA 150.1
POTASSIUM, TOTAL	12.5	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	216	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1634	FIELD
SPEC. COND., LAB (umhos/cm)	1770	EPA 120.1
SULFATE	55.7	EPA 300.0
ALKALINITY	325	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	970	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	5.7	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	4.7	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP017S
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD MM' SS.S")

Monitoring Point Number: CWMP018S — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor

Sampling Point — Latitude: 39 o 56 ' 55.11 " — Longitude: 76 o 26 ' 51.66 "

Depth to Water Level: ___ ft — Measured from: ___ Land Surface X TOC

Casing Stickup: ___ ft — Elevation of Water Level: #Error ft./MSL

Sampling Depth: 0 ft — Volume of Water Column: #Error gal

Total Well Depth: ___ ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: ___

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

Spring Flow Rate: ___ gpm

Sample Date (mm/dd/yy): 7/16/2025 — Sample Collection Time: 9:59

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425870002 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP018S
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	1.26	EPA 350.3
BICARBONATE	196	SM18-2321
CALCIUM, TOTAL	74.1	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	49	EPA 410.4
CHLORIDE	259	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	380	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	35.5	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	930	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	7	EPA 300.0
pH-FIELD (SU)	8.31	FIELD
pH-LAB (SU)	8.43	EPA 150.1
POTASSIUM, TOTAL	20.5	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	141	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1388	FIELD
SPEC. COND., LAB (umhos/cm)	1400	EPA 120.1
SULFATE	34.8	EPA 300.0
ALKALINITY	225	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	766	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	22	SM18-5310B
TOTAL PHENOLICS (ug/l)	9	SW846 9066
TURBIDITY (N.T.U.)	5.6	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP018S
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
08/21/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD MM' SS.S")

Monitoring Point Number: CWMP004W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 o 57 ' 17.9 " — Longitude: 76 o 26 ' 7.05 "

Depth to Water Level: 51.08 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.37 ft — Elevation of Water Level: 478.45 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 130.59 gal

Total Well Depth: 140 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.2

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/16/2025 — Sample Collection Time: 14:34

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425870003 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP004W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	22	SM18-2321
CALCIUM, TOTAL	15.4	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	33.3	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	77	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	5.1	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	4.9	EPA 300.0
pH-FIELD (SU)	5.15	FIELD
pH-LAB (SU)	7.63	EPA 150.1
POTASSIUM, TOTAL	1.2	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	15.7	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	203	FIELD
SPEC. COND., LAB (umhos/cm)	237	EPA 120.1
SULFATE	3.8	EPA 300.0
ALKALINITY	22	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	153	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.51	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP004W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

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Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP002W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 19.97 " — Longitude: 76 ° 26 ' 12.3 "

Depth to Water Level: 42.28 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.19 ft — Elevation of Water Level: 483.53 ft./MSL

Sampling Depth: 85 ft — Volume of Water Column: 84.77 gal

Total Well Depth: 100 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.5

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/16/2025 — Sample Collection Time: 14:16

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425870004 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP002W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	68	SM18-2321
CALCIUM, TOTAL	35.8	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	64.1	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	73	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	13.4	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	630	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	4.2	EPA 300.0
pH-FIELD (SU)	5.66	FIELD
pH-LAB (SU)	7.91	EPA 150.1
POTASSIUM, TOTAL	2.9	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	22.5	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	397	FIELD
SPEC. COND., LAB (umhos/cm)	411	EPA 120.1
SULFATE	15.3	EPA 300.0
ALKALINITY	68	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	246	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	5.1	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP002W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	3.8	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP012W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 1.48 " — Longitude: 76 ° 26 ' 36.02 "

Depth to Water Level: ___ ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.90 ft — Elevation of Water Level: #Error ft./MSL

Sampling Depth: 0 ft — Volume of Water Column: #Error gal

Total Well Depth: 101.9 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: ___

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

Spring Flow Rate: ___ gpm

Sample Date (mm/dd/yy): 7/16/2025 — Sample Collection Time: 11:30

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3425870005 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP012W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.16	EPA 350.3
BICARBONATE	136	SM18-2321
CALCIUM, TOTAL	31.1	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	2 ND	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	120	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	1.4	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	57	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300.0
pH-FIELD (SU)	7.59	FIELD
pH-LAB (SU)	8.46	EPA 150.1
POTASSIUM, TOTAL	41.6	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	11.4	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	323	FIELD
SPEC. COND., LAB (umhos/cm)	304	EPA 120.1
SULFATE	2.5	EPA 300.0
ALKALINITY	146	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	208	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	4.6	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.9	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	100008
Monitoring Point No.	CWMP012W
Sample Date	7/16/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Creswell Landfill

Facitlity ID (as issued by DEP): 100008

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Monitoring Point Number: CWMP003W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 20.17 " — Longitude: 76 ° 26 ' 8.37 "

Depth to Water Level: 57.01 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.29 ft — Elevation of Water Level: 467.20 ft./MSL

Sampling Depth: 100 ft — Volume of Water Column: 26.42 gal

Total Well Depth: 75 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.8

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 7/18/2025 — Sample Collection Time: 9:01

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3426401001 — Final Lab Analysis CompletionDate: 7/30/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	100008
Monitoring Point No.	CWMP003W
Sample Date	7/18/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	EPA 350.3
BICARBONATE	22	SM18-2321
CALCIUM, TOTAL	19.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	52.9	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	67 ND	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	7.3	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	5.3	EPA 300.0
pH-FIELD (SU)	5.57	FIELD
pH-LAB (SU)	7.09	EPA 150.1
POTASSIUM, TOTAL	1.5	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	18.8	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	280	FIELD
SPEC. COND., LAB (umhos/cm)	278	EPA 120.1
SULFATE	5.7	EPA 300.0
ALKALINITY	22	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	209	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.1	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
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I.D. No	100008
Monitoring Point No.	CWMP003W
Sample Date	7/18/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.8	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1 ND	SW846 8260B
trans 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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

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

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

Project 3rd QTR 2025 GWMP-FORM 19Q
Workorder 3425445
Report ID 444405 on 7/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 14, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
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
3425445001	CWMP007W	Ground Water	07/14/2025 10:10	07/14/2025 17:15	EMP	ALS Environmental-Middletown
3425445002	CWMP001W	Ground Water	07/14/2025 11:02	07/14/2025 17:15	EMP	ALS Environmental-Middletown
3425445003	CWMP005W	Ground Water	07/14/2025 13:07	07/14/2025 17:15	EMP	ALS Environmental-Middletown
3425445004	Field Blank	Water	07/14/2025 14:05	07/14/2025 17:15	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	CWMP007W	Collected	07/14/2025 10:10
Lab Sample ID	3425445001	Lab Receipt	07/14/2025 17:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	5.62	Feet		Field	#
Dissolved Oxygen	5.18	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	453.40	Feet		Field	#
Flow Rate	1.45	gal/min		Field	#
Ground Water Elevation	447.78	ft/MSL		Field	#
Oxidation-Reduction Potential	333	mV		Field	#
pH, Field (SM4500B)	4.83	pH_Units		Field	#
Sample Depth	33.00	Feet		Field	#
Specific Conductance, Field	392	umhos/cm	1	Field	#
Temperature	13.33	Deg. C		Field	#
Total Well Depth	36.50	Feet		Field	#
Volume in Water Column	45.39	Gallons		Field	#
Water Level After Purge	6.25	Feet		Field	#
Well Volumes Purged	1.28	Vol		Field	#
METALS					
Calcium, Total	20.1	mg/L	0.11	SW846 6010C	#
Magnesium, Total	10.3	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.0073	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	37.3	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	12	mg/L	5	SM2320B-2011	#
Alkalinity, Total	12	mg/L	5	SM2320B-2011	#
Chloride	73.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	9.4	mg/L	1.0	EPA 300.0	#
pH	7.03	pH_Units		S4500HB-11	#
Specific Conductance	372	umhos/cm	5	SW846 9050A	#
Sulfate	18.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	258	mg/L	25	SM2540C-15	#
Turbidity	1.3	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP001W	Collected	07/14/2025 11:02
Lab Sample ID	3425445002	Lab Receipt	07/14/2025 17:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	28.63	Feet		Field	#
Dissolved Oxygen	8.43	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	515.13	Feet		Field	#
Flow Rate	1.64	gal/min		Field	#
Ground Water Elevation	486.50	ft/MSL		Field	#
Oxidation-Reduction Potential	329	mV		Field	#
pH, Field (SM4500B)	5.12	pH_Units		Field	#
Sample Depth	57.00	Feet		Field	#
Specific Conductance, Field	259	umhos/cm	1	Field	#
Temperature	14.56	Deg. C		Field	#
Total Well Depth	66.30	Feet		Field	#
Turbidity, Field	16	NTU	1	Field	#
Volume in Water Column	55.37	Gallons		Field	#
Water Level After Purge	43.31	Feet		Field	#
Well Volumes Purged	2.22	Vol		Field	#
METALS					
Calcium, Total	15.0	mg/L	0.11	SW846 6010C	#
Iron, Total	0.50	mg/L	0.067	SW846 6010C	#
Magnesium, Total	10.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.056	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	14.4	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	7	mg/L	5	SM2320B-2011	#
Alkalinity, Total	7	mg/L	5	SM2320B-2011	#
Chloride	27.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.2	mg/L	1.0	EPA 300.0	#
pH	6.87	pH_Units		S4500HB-11	#
Specific Conductance	252	umhos/cm	5	SW846 9050A	#
Sulfate	2.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	488	mg/L	25	SM2540C-15	#
Turbidity	19	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP005W	Collected	07/14/2025 13:07
Lab Sample ID	3425445003	Lab Receipt	07/14/2025 17:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	43.90	Feet		Field	#
Dissolved Oxygen	6.19	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	513.43	Feet		Field	#
Flow Rate	1.76	gal/min		Field	#
Ground Water Elevation	469.53	ft/MSL		Field	#
Oxidation-Reduction Potential	307	mV		Field	#
pH, Field (SM4500B)	4.93	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	367	umhos/cm	1	Field	#
Temperature	13.34	Deg. C		Field	#
Total Well Depth	138.92	Feet		Field	#
Volume in Water Column	139.68	Gallons		Field	#
Water Level After Purge	45.05	Feet		Field	#
Well Volumes Purged	1.07	Vol		Field	#
METALS					
Calcium, Total	17.2	mg/L	0.11	SW846 6010C	#
Magnesium, Total	8.7	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.051	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	36.8	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	17	mg/L	5	SM2320B-2011	#
Alkalinity, Total	17	mg/L	5	SM2320B-2011	#
Chloride	75.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	7.3	mg/L	1.0	EPA 300.0	#
pH	7.28	pH_Units		S4500HB-11	#
Specific Conductance	358	umhos/cm	5	SW846 9050A	#
Sulfate	5.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	1090	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.50	mg/L	0.50	SW846 9060A	#
Turbidity	0.65	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	Field Blank	Collected	07/14/2025 14:05
Lab Sample ID	3425445004	Lab Receipt	07/14/2025 17:15

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methylene Chloride	1.3	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
pH	5.76	pH_Units		S4500HB-11	#
Total Dissolved Solids	491	mg/L	25	SM2540C-15	#
Turbidity	1.1	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP007W	Collected	07/14/2025 10:10
Lab Sample ID	3425445001	Lab Receipt	07/14/2025 17:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	5.62		Feet		Field	1	07/14/2025 10:10	EMP	D
Dissolved Oxygen	5.18		mg/L	0.01	Field	1	07/14/2025 10:10	EMP	D
Elev Top MW Casing above MSL	453.40		Feet		Field	1	07/14/2025 10:10	EMP	D
Flow Rate	1.45		gal/min		Field	1	07/14/2025 10:10	EMP	D
Ground Water Elevation	447.78		ft/MSL		Field	1	07/14/2025 10:10	EMP	D
Oxidation-Reduction Potential	333		mV		Field	1	07/14/2025 10:10	EMP	D
pH, Field (SM4500B)	4.83		pH_Units		Field	1	07/14/2025 10:10	EMP	D
Sample Depth	33.00		Feet		Field	1	07/14/2025 10:10	EMP	D
Specific Conductance, Field	392		umhos/cm	1	Field	1	07/14/2025 10:10	EMP	D
Temperature	13.33		Deg. C		Field	1	07/14/2025 10:10	EMP	D
Total Well Depth	36.50		Feet		Field	1	07/14/2025 10:10	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/14/2025 10:10	EMP	D
Volume in Water Column	45.39		Gallons		Field	1	07/14/2025 10:10	EMP	D
Water Level After Purge	6.25		Feet		Field	1	07/14/2025 10:10	EMP	D
Well Volumes Purged	1.28		Vol		Field	1	07/14/2025 10:10	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	20.1		mg/L	0.11	SW846 6010C	1	07/30/2025 16:45	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	07/30/2025 16:45	MSY	K1
Magnesium, Total	10.3		mg/L	0.11	SW846 6010C	1	07/30/2025 16:45	MSY	K1
Manganese, Total	0.0073		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:45	MSY	K1
Potassium, Total	2.3		mg/L	0.56	SW846 6010C	1	07/30/2025 16:45	MSY	K1
Sodium, Total	37.3		mg/L	0.56	SW846 6010C	1	07/30/2025 16:45	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:24	JTH	H

Results

Client Sample ID	CWMP007W	Collected	07/14/2025 10:10
Lab Sample ID	3425445001	Lab Receipt	07/14/2025 17:15

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	07/24/2025 14:24	
4-Bromofluorobenzene	460-00-4	88.7%	79 – 114	07/24/2025 14:24	
Dibromofluoromethane	1868-53-7	96.5%	78 – 116	07/24/2025 14:24	
Toluene-d8	2037-26-5	93.5%	76 – 127	07/24/2025 14:24	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	12		mg/L	5	SM2320B-2011	1	07/21/2025 06:31	MYM	B
Alkalinity, Total	12	1	mg/L	5	SM2320B-2011	1	07/21/2025 06:31	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/22/2025 21:28	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/15/2025 13:15	KMS	A
Chloride	73.7		mg/L	2.0	EPA 300.0	2	07/15/2025 08:17	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/15/2025 08:17	J1W	B
Nitrate-N	9.4		mg/L	1.0	EPA 300.0	2	07/15/2025 08:17	J1W	B
pH	7.03	2	pH_Units		S4500HB-11	1	07/21/2025 06:31	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:43	AKH	G
Specific Conductance	372		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	18.0		mg/L	2.0	EPA 300.0	2	07/15/2025 08:17	J1W	B
Total Dissolved Solids	258		mg/L	25	SM2540C-15	1	07/17/2025 16:30	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	07/24/2025 01:10	PAG	E
Turbidity	1.3		NTU	0.30	SM2130B-2011	1	07/15/2025 08:01	NPF	B

Results

Client Sample ID	CWMP001W	Collected	07/14/2025 11:02
Lab Sample ID	3425445002	Lab Receipt	07/14/2025 17:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	28.63		Feet		Field	1	07/14/2025 11:02	EMP	D
Dissolved Oxygen	8.43		mg/L	0.01	Field	1	07/14/2025 11:02	EMP	D
Elev Top MW Casing above MSL	515.13		Feet		Field	1	07/14/2025 11:02	EMP	D
Flow Rate	1.64		gal/min		Field	1	07/14/2025 11:02	EMP	D
Ground Water Elevation	486.50		ft/MSL		Field	1	07/14/2025 11:02	EMP	D
Oxidation-Reduction Potential	329		mV		Field	1	07/14/2025 11:02	EMP	D
pH, Field (SM4500B)	5.12		pH_Units		Field	1	07/14/2025 11:02	EMP	D
Sample Depth	57.00		Feet		Field	1	07/14/2025 11:02	EMP	D
Specific Conductance, Field	259		umhos/cm	1	Field	1	07/14/2025 11:02	EMP	D
Temperature	14.56		Deg. C		Field	1	07/14/2025 11:02	EMP	D
Total Well Depth	66.30		Feet		Field	1	07/14/2025 11:02	EMP	D
Turbidity, Field	16		NTU	1	Field	1	07/14/2025 11:02	EMP	D
Volume in Water Column	55.37		Gallons		Field	1	07/14/2025 11:02	EMP	D
Water Level After Purge	43.31		Feet		Field	1	07/14/2025 11:02	EMP	D
Well Volumes Purged	2.22		Vol		Field	1	07/14/2025 11:02	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	15.0		mg/L	0.11	SW846 6010C	1	07/30/2025 16:43	MSY	K1
Iron, Total	0.50		mg/L	0.067	SW846 6010C	1	07/30/2025 16:43	MSY	K1
Magnesium, Total	10.4		mg/L	0.11	SW846 6010C	1	07/30/2025 16:43	MSY	K1
Manganese, Total	0.056		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:43	MSY	K1
Potassium, Total	2.3		mg/L	0.56	SW846 6010C	1	07/30/2025 16:43	MSY	K1
Sodium, Total	14.4		mg/L	0.56	SW846 6010C	1	07/30/2025 16:43	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 14:44	JTH	H

Results

Client Sample ID	CWMP001W	Collected	07/14/2025 11:02
Lab Sample ID	3425445002	Lab Receipt	07/14/2025 17:15

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	07/24/2025 14:44	
4-Bromofluorobenzene	460-00-4	93.8%	79 – 114	07/24/2025 14:44	
Dibromofluoromethane	1868-53-7	97.7%	78 – 116	07/24/2025 14:44	
Toluene-d8	2037-26-5	93.3%	76 – 127	07/24/2025 14:44	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	7		mg/L	5	SM2320B-2011	1	07/21/2025 06:43	MYM	B
Alkalinity, Total	7	1	mg/L	5	SM2320B-2011	1	07/21/2025 06:43	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/22/2025 18:25	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/15/2025 13:15	KMS	A
Chloride	27.3		mg/L	2.0	EPA 300.0	2	07/15/2025 08:28	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/15/2025 08:28	J1W	B
Nitrate-N	17.2		mg/L	1.0	EPA 300.0	2	07/15/2025 08:28	J1W	B
pH	6.87	2	pH_Units		S4500HB-11	1	07/21/2025 06:43	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:40	AKH	G
Specific Conductance	252		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	2.3		mg/L	2.0	EPA 300.0	2	07/15/2025 08:28	J1W	B
Total Dissolved Solids	488		mg/L	25	SM2540C-15	1	07/17/2025 16:30	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	07/24/2025 01:10	PAG	E
Turbidity	19		NTU	0.30	SM2130B-2011	1	07/15/2025 08:01	NPF	B

Results

Client Sample ID	CWMP005W	Collected	07/14/2025 13:07
Lab Sample ID	3425445003	Lab Receipt	07/14/2025 17:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	43.90		Feet		Field	1	07/14/2025 13:07	EMP	D
Dissolved Oxygen	6.19		mg/L	0.01	Field	1	07/14/2025 13:07	EMP	D
Elev Top MW Casing above MSL	513.43		Feet		Field	1	07/14/2025 13:07	EMP	D
Flow Rate	1.76		gal/min		Field	1	07/14/2025 13:07	EMP	D
Ground Water Elevation	469.53		ft/MSL		Field	1	07/14/2025 13:07	EMP	D
Oxidation-Reduction Potential	307		mV		Field	1	07/14/2025 13:07	EMP	D
pH, Field (SM4500B)	4.93		pH_Units		Field	1	07/14/2025 13:07	EMP	D
Sample Depth	130.00		Feet		Field	1	07/14/2025 13:07	EMP	D
Specific Conductance, Field	367		umhos/cm	1	Field	1	07/14/2025 13:07	EMP	D
Temperature	13.34		Deg. C		Field	1	07/14/2025 13:07	EMP	D
Total Well Depth	138.92		Feet		Field	1	07/14/2025 13:07	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/14/2025 13:07	EMP	D
Volume in Water Column	139.68		Gallons		Field	1	07/14/2025 13:07	EMP	D
Water Level After Purge	45.05		Feet		Field	1	07/14/2025 13:07	EMP	D
Well Volumes Purged	1.07		Vol		Field	1	07/14/2025 13:07	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	17.2		mg/L	0.11	SW846 6010C	1	07/30/2025 16:41	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	07/30/2025 16:41	MSY	K1
Magnesium, Total	8.7		mg/L	0.11	SW846 6010C	1	07/30/2025 16:41	MSY	K1
Manganese, Total	0.051		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:41	MSY	K1
Potassium, Total	2.3		mg/L	0.56	SW846 6010C	1	07/30/2025 16:41	MSY	K1
Sodium, Total	36.8		mg/L	0.56	SW846 6010C	1	07/30/2025 16:41	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 15:04	JTH	H

Results

Client Sample ID	CWMP005W	Collected	07/14/2025 13:07
Lab Sample ID	3425445003	Lab Receipt	07/14/2025 17:15

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	07/24/2025 15:04	
4-Bromofluorobenzene	460-00-4	89.4%	79 – 114	07/24/2025 15:04	
Dibromofluoromethane	1868-53-7	98%	78 – 116	07/24/2025 15:04	
Toluene-d8	2037-26-5	94.2%	76 – 127	07/24/2025 15:04	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	17		mg/L	5	SM2320B-2011	1	07/21/2025 06:56	MYM	B
Alkalinity, Total	17	1	mg/L	5	SM2320B-2011	1	07/21/2025 06:56	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/24/2025 19:40	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/15/2025 13:15	KMS	A
Chloride	75.6		mg/L	2.0	EPA 300.0	2	07/15/2025 08:40	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/15/2025 08:40	J1W	B
Nitrate-N	7.3		mg/L	1.0	EPA 300.0	2	07/15/2025 08:40	J1W	B
pH	7.28	2	pH_Units		S4500HB-11	1	07/21/2025 06:56	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:50	AKH	G
Specific Conductance	358		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	5.8		mg/L	2.0	EPA 300.0	2	07/15/2025 08:40	J1W	B
Total Dissolved Solids	1090		mg/L	25	SM2540C-15	1	07/17/2025 16:30	RAG	B
Total Organic Carbon (TOC)	0.50		mg/L	0.50	SW846 9060A	1	07/24/2025 01:10	PAG	E
Turbidity	0.65		NTU	0.30	SM2130B-2011	1	07/15/2025 08:01	NPF	B

Results

Client Sample ID	Field Blank	Collected	07/14/2025 14:05
Lab Sample ID	3425445004	Lab Receipt	07/14/2025 17:15

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	07/30/2025 16:21	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	07/30/2025 16:21	MSY	K1
Magnesium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	07/30/2025 16:21	MSY	K1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	07/30/2025 16:21	MSY	K1
Potassium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	07/30/2025 16:21	MSY	K1
Sodium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	07/30/2025 16:21	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Methylene Chloride	1.3		ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 13:04	JTH	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	07/24/2025 13:04	
4-Bromofluorobenzene	460-00-4	91.6%	79 – 114	07/24/2025 13:04	
Dibromofluoromethane	1868-53-7	97.1%	78 – 116	07/24/2025 13:04	
Toluene-d8	2037-26-5	97.4%	76 – 127	07/24/2025 13:04	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	07/21/2025 07:04	MYM	B
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	07/21/2025 07:04	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/22/2025 21:34	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/15/2025 13:15	KMS	A
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	07/15/2025 08:51	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/15/2025 08:51	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	07/15/2025 08:51	J1W	B
pH	5.76	2	pH_Units		S4500HB-11	1	07/21/2025 07:04	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:47	AKH	G

Results

Client Sample ID	Field Blank	Collected	07/14/2025 14:05
Lab Sample ID	3425445004	Lab Receipt	07/14/2025 17:15

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Specific Conductance	ND	ND	umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	07/15/2025 08:51	J1W	B
Total Dissolved Solids	491		mg/L	25	SM2540C-15	1	07/17/2025 16:30	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	07/24/2025 01:10	PAG	E
Turbidity	1.1		NTU	0.30	SM2130B-2011	1	07/15/2025 08:01	NPF	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3425445001	CWMP007W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425445002	CWMP001W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425445003	CWMP005W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425445004	Field Blank	SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3425445001	CWMP007W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453482
		N/A	N/A	N/A		EPA 410.4	1453561
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1453490
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454118
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455519
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425445002	CWMP001W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453482
		N/A	N/A	N/A		EPA 410.4	1453561
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1453490
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454118
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455519
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425445003	CWMP005W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453482
		N/A	N/A	N/A		EPA 410.4	1453561
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1453490
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454118
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455519
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425445004	Field Blank	SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453482
		N/A	N/A	N/A		EPA 410.4	1453561
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1453490
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454118
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455519
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729

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.

3425445
Logged By: SLS
PM: SJB

of

(Receiving Lab)

WO Temp (°C)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Creswell/GWMP Form 19Q
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

Date Required: **Approved?**
Email? [x] dbrown@lcswma.org

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

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	O-OH	8260 VOCs - Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, HCO3	FM	Sample Debth for AUX Data	NH3-N, COD	Total Metals Ca, Fe, Mn, Mg, K, Na	
							Enter Number of Containers Per Sample or Field Results Below.									
1	CWMP007W	7-14-25	1010		G	GW	2	1	3	1	1	x	x	1	2	
2	CWMP001W	7-14-25	1102		G	GW	2	1	3	1	1	x	x	1	2	
3	CWMP005W	7-14-25	1307		G	GW	2	1	3	1	1	x	x	1	2	
4	Field Blank	7-14-25	1405				2	1	3	1	1			1	2	
5																
6																
7																
8																
9																
10																

*Receipt Info completed by:*_____

WV Containers 0-6°C	Y	N	NA
Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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

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

Sample/COC Remarks

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

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
7-14-25	1715	1	ALS	2	MRTS
		3		4	
		5		6	
		7		8	
		9		10	

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

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Middletown Sample Condition Form

Client: Lancaster County Solid Waste Workorder: 3425445

Temp °C: 3 Therm ID: 569 Ice? (Y) N N/A Initials & Date: MP 7/14/25

Fedex UPS Client (ALS) Other Tracking #: _____

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

[1] *If No, provide comment*

Rad Screen (uCi): _____

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

Review Comments:

_____

_____

_____

7/31/2025 3:16 PM

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

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

Analytical Results Report For

Lancaster County Solid Waste Authority

Project 3rd QTR 2025 GWMP-FORM 19Q
Workorder 3425870
Report ID 444404 on 7/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 16, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
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
3425870001	CWMP017S	Ground Water	07/16/2025 09:30	07/16/2025 16:10	EMP	ALS Environmental-Middletown
3425870002	CWMP018S	Ground Water	07/16/2025 09:59	07/16/2025 16:10	EMP	ALS Environmental-Middletown
3425870003	CWMP004W	Ground Water	07/16/2025 14:34	07/16/2025 16:10	EMP	ALS Environmental-Middletown
3425870004	CWMP002W	Ground Water	07/16/2025 14:16	07/16/2025 16:10	EMP	ALS Environmental-Middletown
3425870005	CWMP012W	Ground Water	07/16/2025 11:30	07/16/2025 16:10	EMP	ALS Environmental-Middletown
3425870006	Trip Blank	Water	07/16/2025 16:10	07/16/2025 16:10	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	CWMP017S	Collected	07/16/2025 09:30
Lab Sample ID	3425870001	Lab Receipt	07/16/2025 16:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	7.55	mg/L	0.01	Field	#
Oxidation-Reduction Potential	148	mV		Field	#
pH, Field (SM4500B)	7.90	pH_Units		Field	#
Specific Conductance, Field	1634	umhos/cm	1	Field	#
Temperature	23.54	Deg. C		Field	#
Turbidity, Field	10	NTU	1	Field	#
METALS					
Calcium, Total	54.0	mg/L	0.11	SW846 6010C	#
Iron, Total	0.67	mg/L	0.067	SW846 6010C	#
Magnesium, Total	55.3	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.45	mg/L	0.0056	SW846 6010C	#
Potassium, Total	12.5	mg/L	0.56	SW846 6010C	#
Sodium, Total	216	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	280	mg/L	5	SM2320B-2011	#
Alkalinity, Total	325	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	17	mg/L	15	EPA 410.4	#
Chloride	299	mg/L	5.0	EPA 300.0	#
Nitrate-N	17.9	mg/L	2.5	EPA 300.0	#
pH	8.50	pH_Units		S4500HB-11	#
Specific Conductance	1770	umhos/cm	5	SW846 9050A	#
Sulfate	55.7	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	970	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.7	mg/L	0.50	SW846 9060A	#
Turbidity	4.7	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP018S	Collected	07/16/2025 09:59
Lab Sample ID	3425870002	Lab Receipt	07/16/2025 16:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	7.62	mg/L	0.01	Field	#
Oxidation-Reduction Potential	153	mV		Field	#
pH, Field (SM4500B)	8.31	pH_Units		Field	#
Specific Conductance, Field	1388	umhos/cm	1	Field	#
Temperature	22.76	Deg. C		Field	#
Turbidity, Field	5	NTU	1	Field	#
METALS					
Calcium, Total	74.1	mg/L	0.11	SW846 6010C	#
Iron, Total	0.38	mg/L	0.067	SW846 6010C	#
Magnesium, Total	35.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.93	mg/L	0.0056	SW846 6010C	#
Potassium, Total	20.5	mg/L	0.56	SW846 6010C	#
Sodium, Total	141	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	196	mg/L	5	SM2320B-2011	#
Alkalinity, Total	225	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	1.26	mg/L	0.10	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	49	mg/L	15	EPA 410.4	#
Chloride	259	mg/L	5.0	EPA 300.0	#
Nitrate-N	7.0	mg/L	2.5	EPA 300.0	#
pH	8.43	pH_Units		S4500HB-11	#
Phenolics	0.009	mg/L	0.004	SW846 9066	#
Specific Conductance	1400	umhos/cm	5	SW846 9050A	#
Sulfate	34.8	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	766	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	22.0	mg/L	2.5	SW846 9060A	#
Turbidity	5.6	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP004W	Collected	07/16/2025 14:34
Lab Sample ID	3425870003	Lab Receipt	07/16/2025 16:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	51.08	Feet		Field	#
Dissolved Oxygen	7.53	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	529.53	Feet		Field	#
Flow Rate	1.86	gal/min		Field	#
Ground Water Elevation	478.45	ft/MSL		Field	#
Oxidation-Reduction Potential	315	mV		Field	#
pH, Field (SM4500B)	5.15	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	203	umhos/cm	1	Field	#
Temperature	14.82	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Volume in Water Column	130.71	Gallons		Field	#
Water Level After Purge	55.92	Feet		Field	#
Well Volumes Purged	1.21	Vol		Field	#
METALS					
Calcium, Total	15.4	mg/L	0.11	SW846 6010C	#
Iron, Total	0.077	mg/L	0.067	SW846 6010C	#
Magnesium, Total	5.1	mg/L	0.11	SW846 6010C	#
Potassium, Total	1.2	mg/L	0.56	SW846 6010C	#
Sodium, Total	15.7	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	22	mg/L	5	SM2320B-2011	#
Alkalinity, Total	22	mg/L	5	SM2320B-2011	#
Chloride	33.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.9	mg/L	1.0	EPA 300.0	#
pH	7.63	pH_Units		S4500HB-11	#
Specific Conductance	237	umhos/cm	5	SW846 9050A	#
Sulfate	3.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	153	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.51	mg/L	0.50	SW846 9060A	#
Turbidity	1.5	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP002W	Collected	07/16/2025 14:16
Lab Sample ID	3425870004	Lab Receipt	07/16/2025 16:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	42.28	Feet		Field	#
Dissolved Oxygen	1.56	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	525.81	Feet		Field	#
Flow Rate	1.47	gal/min		Field	#
Ground Water Elevation	483.53	ft/MSL		Field	#
Oxidation-Reduction Potential	221	mV		Field	#
pH, Field (SM4500B)	5.66	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	397	umhos/cm	1	Field	#
Temperature	14.48	Deg. C		Field	#
Total Well Depth	100.00	Feet		Field	#
Volume in Water Column	84.85	Gallons		Field	#
Water Level After Purge	44.43	Feet		Field	#
Well Volumes Purged	1.47	Vol		Field	#
METALS					
Calcium, Total	35.8	mg/L	0.11	SW846 6010C	#
Iron, Total	0.073	mg/L	0.067	SW846 6010C	#
Magnesium, Total	13.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.63	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	22.5	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	3.8	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	68	mg/L	5	SM2320B-2011	#
Alkalinity, Total	68	mg/L	5	SM2320B-2011	#
Chloride	64.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.2	mg/L	1.0	EPA 300.0	#
pH	7.91	pH_Units		S4500HB-11	#
Specific Conductance	411	umhos/cm	5	SW846 9050A	#
Sulfate	15.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	246	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.1	mg/L	0.50	SW846 9060A	#
Turbidity	2.3	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP012W	Collected	07/16/2025 11:30
Lab Sample ID	3425870005	Lab Receipt	07/16/2025 16:10

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	5.53	mg/L	0.01	Field	#
Oxidation-Reduction Potential	124	mV		Field	#
pH, Field (SM4500B)	7.59	pH_Units		Field	#
Specific Conductance, Field	323	umhos/cm	1	Field	#
Temperature	20.97	Deg. C		Field	#
Turbidity, Field	6	NTU	1	Field	#
METALS					
Calcium, Total	31.1	mg/L	0.11	SW846 6010C	#
Iron, Total	0.12	mg/L	0.067	SW846 6010C	#
Magnesium, Total	1.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.057	mg/L	0.0056	SW846 6010C	#
Potassium, Total	41.6	mg/L	0.56	SW846 6010C	#
Sodium, Total	11.4	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	136	mg/L	5	SM2320B-2011	#
Alkalinity, Total	146	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.16	mg/L	0.10	SM 4500-NH3G	#
pH	8.46	pH_Units		S4500HB-11	#
Specific Conductance	304	umhos/cm	5	SW846 9050A	#
Sulfate	2.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	208	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	4.6	mg/L	0.50	SW846 9060A	#
Turbidity	0.90	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP017S	Collected	07/16/2025 09:30
Lab Sample ID	3425870001	Lab Receipt	07/16/2025 16:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	7.55		mg/L	0.01	Field	1	07/16/2025 09:31	CLT	D
Oxidation-Reduction Potential	148		mV		Field	1	07/16/2025 09:31	CLT	D
pH, Field (SM4500B)	7.90		pH_Units		Field	1	07/16/2025 09:31	CLT	D
Specific Conductance, Field	1634		umhos/cm	1	Field	1	07/16/2025 09:31	CLT	D
Temperature	23.54		Deg. C		Field	1	07/16/2025 09:31	CLT	D
Turbidity, Field	10		NTU	1	Field	1	07/16/2025 09:31	CLT	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	54.0		mg/L	0.11	SW846 6010C	1	07/30/2025 17:14	MSY	K1
Iron, Total	0.67		mg/L	0.067	SW846 6010C	1	07/30/2025 17:14	MSY	K1
Magnesium, Total	55.3		mg/L	0.11	SW846 6010C	1	07/30/2025 17:14	MSY	K1
Manganese, Total	0.45		mg/L	0.0056	SW846 6010C	1	07/30/2025 17:14	MSY	K1
Potassium, Total	12.5		mg/L	0.56	SW846 6010C	1	07/30/2025 17:14	MSY	K1
Sodium, Total	216		mg/L	0.56	SW846 6010C	1	07/30/2025 17:14	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 16:46	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	07/25/2025 16:46	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	07/25/2025 16:46	
Dibromofluoromethane	1868-53-7	97.1%	78 – 116	07/25/2025 16:46	
Toluene-d8	2037-26-5	101%	76 – 127	07/25/2025 16:46	

WET CHEMISTRY

Results

Client Sample ID	CWMP017S	Collected	07/16/2025 09:30
Lab Sample ID	3425870001	Lab Receipt	07/16/2025 16:10

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	280		mg/L	5	SM2320B-2011	1	07/21/2025 17:14	MYM	B
Alkalinity, Total	325	1	mg/L	5	SM2320B-2011	1	07/21/2025 17:14	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/24/2025 18:19	AYS	A
Chemical Oxygen Demand (COD)	17		mg/L	15	EPA 410.4	1	07/21/2025 13:01	KMS	A
Chloride	299		mg/L	5.0	EPA 300.0	5	07/17/2025 10:50	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	07/17/2025 10:50	J1W	B
Nitrate-N	17.9		mg/L	2.5	EPA 300.0	5	07/17/2025 10:50	J1W	B
pH	8.50	2	pH_Units		S4500HB-11	1	07/21/2025 17:14	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 16:33	AKH	G
Specific Conductance	1770		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	55.7		mg/L	5.0	EPA 300.0	5	07/17/2025 10:50	J1W	B
Total Dissolved Solids	970		mg/L	25	SM2540C-15	1	07/21/2025 15:30	RAG	B
Total Organic Carbon (TOC)	5.7		mg/L	0.50	SW846 9060A	1	07/25/2025 03:33	PAG	E
Turbidity	4.7		NTU	0.30	SM2130B-2011	1	07/18/2025 07:31	NPF	B

Results

Client Sample ID	CWMP018S	Collected	07/16/2025 09:59
Lab Sample ID	3425870002	Lab Receipt	07/16/2025 16:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	7.62		mg/L	0.01	Field	1	07/16/2025 10:32	CLT	D
Oxidation-Reduction Potential	153		mV		Field	1	07/16/2025 10:32	CLT	D
pH, Field (SM4500B)	8.31		pH_Units		Field	1	07/16/2025 10:32	CLT	D
Specific Conductance, Field	1388		umhos/cm	1	Field	1	07/16/2025 10:32	CLT	D
Temperature	22.76		Deg. C		Field	1	07/16/2025 10:32	CLT	D
Turbidity, Field	5		NTU	1	Field	1	07/16/2025 10:32	CLT	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	74.1		mg/L	0.11	SW846 6010C	1	07/30/2025 17:12	MSY	K1
Iron, Total	0.38		mg/L	0.067	SW846 6010C	1	07/30/2025 17:12	MSY	K1
Magnesium, Total	35.5		mg/L	0.11	SW846 6010C	1	07/30/2025 17:12	MSY	K1
Manganese, Total	0.93		mg/L	0.0056	SW846 6010C	1	07/30/2025 17:12	MSY	K1
Potassium, Total	20.5		mg/L	0.56	SW846 6010C	1	07/30/2025 17:12	MSY	K1
Sodium, Total	141		mg/L	0.56	SW846 6010C	1	07/30/2025 17:12	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:07	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	07/25/2025 17:07	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	07/25/2025 17:07	
Dibromofluoromethane	1868-53-7	98.2%	78 – 116	07/25/2025 17:07	
Toluene-d8	2037-26-5	102%	76 – 127	07/25/2025 17:07	

WET CHEMISTRY

Results

Client Sample ID CWMP018S
Lab Sample ID 3425870002

Collected 07/16/2025 09:59
Lab Receipt 07/16/2025 16:10

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	196		mg/L	5	SM2320B-2011	1	07/21/2025 17:28	MYM	B
Alkalinity, Total	225	1	mg/L	5	SM2320B-2011	1	07/21/2025 17:28	MYM	B
Ammonia-N, Low Level	1.26		mg/L	0.10	SM 4500-NH3G	1	07/22/2025 17:25	AYS	A
Chemical Oxygen Demand (COD)	49		mg/L	15	EPA 410.4	1	07/21/2025 13:01	KMS	A
Chloride	259		mg/L	5.0	EPA 300.0	5	07/17/2025 11:01	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	07/17/2025 11:01	J1W	B
Nitrate-N	7.0		mg/L	2.5	EPA 300.0	5	07/17/2025 11:01	J1W	B
pH	8.43	2	pH_Units		S4500HB-11	1	07/21/2025 17:28	MYM	B
Phenolics	0.009		mg/L	0.004	SW846 9066	1	07/24/2025 16:36	AKH	G
Specific Conductance	1400		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	34.8		mg/L	5.0	EPA 300.0	5	07/17/2025 11:01	J1W	B
Total Dissolved Solids	766		mg/L	25	SM2540C-15	1	07/21/2025 15:30	RAG	B
Total Organic Carbon (TOC)	22.0		mg/L	2.5	SW846 9060A	5	07/25/2025 03:33	PAG	E
Turbidity	5.6		NTU	0.30	SM2130B-2011	1	07/18/2025 07:31	NPF	B

Results

Client Sample ID	CWMP004W	Collected	07/16/2025 14:34
Lab Sample ID	3425870003	Lab Receipt	07/16/2025 16:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	51.08		Feet		Field	1	07/16/2025 14:34	EMP	D
Dissolved Oxygen	7.53		mg/L	0.01	Field	1	07/16/2025 14:34	EMP	D
Elev Top MW Casing above MSL	529.53		Feet		Field	1	07/16/2025 14:34	EMP	D
Flow Rate	1.86		gal/min		Field	1	07/16/2025 14:34	EMP	D
Ground Water Elevation	478.45		ft/MSL		Field	1	07/16/2025 14:34	EMP	D
Oxidation-Reduction Potential	315		mV		Field	1	07/16/2025 14:34	EMP	D
pH, Field (SM4500B)	5.15		pH_Units		Field	1	07/16/2025 14:34	EMP	D
Sample Depth	130.00		Feet		Field	1	07/16/2025 14:34	EMP	D
Specific Conductance, Field	203		umhos/cm	1	Field	1	07/16/2025 14:34	EMP	D
Temperature	14.82		Deg. C		Field	1	07/16/2025 14:34	EMP	D
Total Well Depth	140.00		Feet		Field	1	07/16/2025 14:34	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/16/2025 14:34	EMP	D
Volume in Water Column	130.71		Gallons		Field	1	07/16/2025 14:34	EMP	D
Water Level After Purge	55.92		Feet		Field	1	07/16/2025 14:34	EMP	D
Well Volumes Purged	1.21		Vol		Field	1	07/16/2025 14:34	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	15.4		mg/L	0.11	SW846 6010C	1	07/30/2025 16:55	MSY	K1
Iron, Total	0.077		mg/L	0.067	SW846 6010C	1	07/30/2025 16:55	MSY	K1
Magnesium, Total	5.1		mg/L	0.11	SW846 6010C	1	07/30/2025 16:55	MSY	K1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	07/30/2025 16:55	MSY	K1
Potassium, Total	1.2		mg/L	0.56	SW846 6010C	1	07/30/2025 16:55	MSY	K1
Sodium, Total	15.7		mg/L	0.56	SW846 6010C	1	07/30/2025 16:55	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:27	IXK	H

Results

Client Sample ID	CWMP004W	Collected	07/16/2025 14:34
Lab Sample ID	3425870003	Lab Receipt	07/16/2025 16:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	07/25/2025 17:27	
4-Bromofluorobenzene	460-00-4	99.5%	79 – 114	07/25/2025 17:27	
Dibromofluoromethane	1868-53-7	95.4%	78 – 116	07/25/2025 17:27	
Toluene-d8	2037-26-5	102%	76 – 127	07/25/2025 17:27	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	22		mg/L	5	SM2320B-2011	1	07/21/2025 17:41	MYM	B
Alkalinity, Total	22	1	mg/L	5	SM2320B-2011	1	07/21/2025 17:41	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/24/2025 19:31	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/21/2025 13:01	KMS	A
Chloride	33.3		mg/L	2.0	EPA 300.0	2	07/17/2025 11:13	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/17/2025 11:13	J1W	B
Nitrate-N	4.9		mg/L	1.0	EPA 300.0	2	07/17/2025 11:13	J1W	B
pH	7.63	2	pH_Units		S4500HB-11	1	07/21/2025 17:41	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 16:23	AKH	G
Specific Conductance	237		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	3.8		mg/L	2.0	EPA 300.0	2	07/17/2025 11:13	J1W	B
Total Dissolved Solids	153		mg/L	25	SM2540C-15	1	07/21/2025 15:30	RAG	B
Total Organic Carbon (TOC)	0.51		mg/L	0.50	SW846 9060A	1	07/25/2025 03:33	PAG	E
Turbidity	1.5		NTU	0.30	SM2130B-2011	1	07/18/2025 07:31	NPF	B

Results

Client Sample ID	CWMP002W	Collected	07/16/2025 14:16
Lab Sample ID	3425870004	Lab Receipt	07/16/2025 16:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	42.28		Feet		Field	1	07/16/2025 14:21	EMP	D
Dissolved Oxygen	1.56		mg/L	0.01	Field	1	07/16/2025 14:21	EMP	D
Elev Top MW Casing above MSL	525.81		Feet		Field	1	07/16/2025 14:21	EMP	D
Flow Rate	1.47		gal/min		Field	1	07/16/2025 14:21	EMP	D
Ground Water Elevation	483.53		ft/MSL		Field	1	07/16/2025 14:21	EMP	D
Oxidation-Reduction Potential	221		mV		Field	1	07/16/2025 14:21	EMP	D
pH, Field (SM4500B)	5.66		pH_Units		Field	1	07/16/2025 14:21	EMP	D
Sample Depth	85.00		Feet		Field	1	07/16/2025 14:21	EMP	D
Specific Conductance, Field	397		umhos/cm	1	Field	1	07/16/2025 14:21	EMP	D
Temperature	14.48		Deg. C		Field	1	07/16/2025 14:21	EMP	D
Total Well Depth	100.00		Feet		Field	1	07/16/2025 14:21	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/16/2025 14:21	EMP	D
Volume in Water Column	84.85		Gallons		Field	1	07/16/2025 14:21	EMP	D
Water Level After Purge	44.43		Feet		Field	1	07/16/2025 14:21	EMP	D
Well Volumes Purged	1.47		Vol		Field	1	07/16/2025 14:21	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	35.8		mg/L	0.11	SW846 6010C	1	07/30/2025 17:10	MSY	K1
Iron, Total	0.073		mg/L	0.067	SW846 6010C	1	07/30/2025 17:10	MSY	K1
Magnesium, Total	13.4		mg/L	0.11	SW846 6010C	1	07/30/2025 17:10	MSY	K1
Manganese, Total	0.63		mg/L	0.0056	SW846 6010C	1	07/30/2025 17:10	MSY	K1
Potassium, Total	2.9		mg/L	0.56	SW846 6010C	1	07/30/2025 17:10	MSY	K1
Sodium, Total	22.5		mg/L	0.56	SW846 6010C	1	07/30/2025 17:10	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
1,1-Dichloroethane	3.8		ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 17:48	IXK	H

Results

Client Sample ID	CWMP002W	Collected	07/16/2025 14:16
Lab Sample ID	3425870004	Lab Receipt	07/16/2025 16:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	07/25/2025 17:48	
4-Bromofluorobenzene	460-00-4	90.5%	79 – 114	07/25/2025 17:48	
Dibromofluoromethane	1868-53-7	91.8%	78 – 116	07/25/2025 17:48	
Toluene-d8	2037-26-5	96.8%	76 – 127	07/25/2025 17:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	68		mg/L	5	SM2320B-2011	1	07/21/2025 17:52	MYM	B
Alkalinity, Total	68	1	mg/L	5	SM2320B-2011	1	07/21/2025 17:52	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/24/2025 19:49	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/21/2025 13:01	KMS	A
Chloride	64.1		mg/L	2.0	EPA 300.0	2	07/17/2025 11:24	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/17/2025 11:24	J1W	B
Nitrate-N	4.2		mg/L	1.0	EPA 300.0	2	07/17/2025 11:24	J1W	B
pH	7.91	2	pH_Units		S4500HB-11	1	07/21/2025 17:52	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 17:07	AKH	G
Specific Conductance	411		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	15.3		mg/L	2.0	EPA 300.0	2	07/17/2025 11:24	J1W	B
Total Dissolved Solids	246		mg/L	25	SM2540C-15	1	07/21/2025 15:30	RAG	B
Total Organic Carbon (TOC)	5.1		mg/L	0.50	SW846 9060A	1	07/25/2025 03:33	PAG	E
Turbidity	2.3		NTU	0.30	SM2130B-2011	1	07/18/2025 07:31	NPF	B

Results

Client Sample ID	CWMP012W	Collected	07/16/2025 11:30
Lab Sample ID	3425870005	Lab Receipt	07/16/2025 16:10

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	5.53		mg/L	0.01	Field	1	07/15/2025 11:41	EMP	D
Oxidation-Reduction Potential	124		mV		Field	1	07/15/2025 11:41	EMP	D
pH, Field (SM4500B)	7.59		pH_Units		Field	1	07/15/2025 11:41	EMP	D
Specific Conductance, Field	323		umhos/cm	1	Field	1	07/15/2025 11:41	EMP	D
Temperature	20.97		Deg. C		Field	1	07/15/2025 11:41	EMP	D
Turbidity, Field	6		NTU	1	Field	1	07/15/2025 11:41	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	31.1		mg/L	0.11	SW846 6010C	1	07/30/2025 17:08	MSY	K1
Iron, Total	0.12		mg/L	0.067	SW846 6010C	1	07/30/2025 17:08	MSY	K1
Magnesium, Total	1.4		mg/L	0.11	SW846 6010C	1	07/30/2025 17:08	MSY	K1
Manganese, Total	0.057		mg/L	0.0056	SW846 6010C	1	07/30/2025 17:08	MSY	K1
Potassium, Total	41.6		mg/L	0.56	SW846 6010C	1	07/30/2025 17:08	MSY	K1
Sodium, Total	11.4		mg/L	0.56	SW846 6010C	1	07/30/2025 17:08	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 18:29	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	07/25/2025 18:29	
4-Bromofluorobenzene	460-00-4	98.7%	79 – 114	07/25/2025 18:29	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	07/25/2025 18:29	
Toluene-d8	2037-26-5	101%	76 – 127	07/25/2025 18:29	

WET CHEMISTRY

Results

Client Sample ID	CWMP012W	Collected	07/16/2025 11:30
Lab Sample ID	3425870005	Lab Receipt	07/16/2025 16:10

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	136		mg/L	5	SM2320B-2011	1	07/21/2025 18:36	MYM	B
Alkalinity, Total	146	1	mg/L	5	SM2320B-2011	1	07/21/2025 18:36	MYM	B
Ammonia-N, Low Level	0.16		mg/L	0.10	SM 4500-NH3G	1	07/24/2025 19:52	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/21/2025 13:01	KMS	A
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	07/17/2025 11:36	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/17/2025 11:36	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	07/17/2025 11:36	J1W	B
pH	8.46	2	pH_Units		S4500HB-11	1	07/21/2025 18:36	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 18:07	AKH	G
Specific Conductance	304		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	2.5		mg/L	2.0	EPA 300.0	2	07/17/2025 11:36	J1W	B
Total Dissolved Solids	208		mg/L	25	SM2540C-15	1	07/21/2025 15:30	RAG	B
Total Organic Carbon (TOC)	4.6		mg/L	0.50	SW846 9060A	1	07/25/2025 03:33	PAG	E
Turbidity	0.90		NTU	0.30	SM2130B-2011	1	07/18/2025 07:31	NPF	B

Results

Client Sample ID	Trip Blank	Collected	07/16/2025 16:10
Lab Sample ID	3425870006	Lab Receipt	07/16/2025 16:10

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:24	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	07/25/2025 14:24	
4-Bromofluorobenzene	460-00-4	92.7%	79 – 114	07/25/2025 14:24	
Dibromofluoromethane	1868-53-7	95%	78 – 116	07/25/2025 14:24	
Toluene-d8	2037-26-5	98.5%	76 – 127	07/25/2025 14:24	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3425870001	CWMP017S	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425870002	CWMP018S	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425870003	CWMP004W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425870004	CWMP002W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3425870005	CWMP012W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425870006	Trip Blank	SW846 8260B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3425870001	CWMP017S	N/A	N/A	N/A		Field	
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1454084
		N/A	N/A	N/A		EPA 410.4	1455071
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1454124
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454352
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455807
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425870002	CWMP018S	N/A	N/A	N/A		Field	
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1454084
		N/A	N/A	N/A		EPA 410.4	1455071
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1454124
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454352
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455807
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425870003	CWMP004W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1454084
		N/A	N/A	N/A		EPA 410.4	1455071
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1454124
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454352
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455807
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425870004	CWMP002W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1454084
		N/A	N/A	N/A		EPA 410.4	1455071
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1454124
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454352
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455807
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3425870005	CWMP012W	N/A	N/A	N/A		Field	1455688
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1454084
		N/A	N/A	N/A		EPA 410.4	1455071
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1454124
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454352
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455807
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425870006	Trip Blank	N/A	N/A	N/A		SW846 8260B	1455986

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.

3425870
Logged By: SLS
PM: SJB

of

(Receiving Lab)
WO Temp (°C) 1

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Creswell/GWMP Form 19Q
Bill To: Lancaster County Solid Waste MA
Purchase Order #:
TAT [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [x] dbrown@lcswma.org

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

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	O-OH	8260 VOCs - Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, HCO3	FM	Sample Debth for AUX Data	NH3-N, COD	Total Metals Ca, Fe, Mn, Mg, K, Na	
	Enter Number of Containers Per Sample or Field Results Below.															
1	CWMP017S	7-16-25	0930		G	GW	2	1	3	1	1	x	x	1	2	
2	CWMP018S	7-16-25	0959		G	GW	2	1	3	1	1	x	x	1	2	
3	CWMP004W	7-16-25	1424		G	GW	2	1	3	1	1	x	x	1	2	
4	CWMP002W	7-16-25	1416		G	GW	2	1	3	1	1	x	x	1	2	
5	CWMP012W	7/16/25	1130				2	1	3	1	1			1	2	DB 7/16/25
6	TB								3 - 3x6 HCl							
7									DB 7/16/25							
8																
9																
10																

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
7-16-25	1610	1	ALS	2	
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type _____

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

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

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

Rev 07.06.2023

Middletown Sample Condition Form

Client Lancaster Co. Workorder 3425870

Temp °C 1° Therm ID 649 Ice? (Y) N N/A Initials & Date DB 7/10/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement	✓	(X)		DC WJ7225
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers	✓			
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			UC WJ7225
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) _____

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

Review Comments:

_____

_____

_____

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

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

Analytical Results Report For

Lancaster County Solid Waste Authority

Project 3rd QTR 2025 GWMP-FORM 19Q
Workorder 3426401
Report ID 444489 on 7/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 18, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
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
3426401001	CWMP003W	Ground Water	07/18/2025 09:01	07/18/2025 12:45	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

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

Detected Results Summary

Client Sample ID	CWMP003W	Collected	07/18/2025 09:01
Lab Sample ID	3426401001	Lab Receipt	07/18/2025 12:45

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	57.01	Feet		Field	#
Dissolved Oxygen	8.86	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	524.21	Feet		Field	#
Flow Rate	1.86	gal/min		Field	#
Ground Water Elevation	467.20	ft/MSL		Field	#
Oxidation-Reduction Potential	301	mV		Field	#
pH, Field (SM4500B)	5.57	pH_Units		Field	#
Sample Depth	100.00	Feet		Field	#
Specific Conductance, Field	280	umhos/cm	1	Field	#
Temperature	14.76	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Volume in Water Column	122.00	Gallons		Field	#
Water Level After Purge	74.83	Feet		Field	#
Well Volumes Purged	1.75	Vol		Field	#
METALS					
Calcium, Total	19.7	mg/L	0.11	SW846 6010C	#
Magnesium, Total	7.3	mg/L	0.11	SW846 6010C	#
Potassium, Total	1.5	mg/L	0.56	SW846 6010C	#
Sodium, Total	18.8	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.8	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	22	mg/L	5	SM2320B-2011	#
Alkalinity, Total	22	mg/L	5	SM2320B-2011	#
Chloride	52.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.3	mg/L	1.0	EPA 300.0	#
pH	7.09	pH_Units		S4500HB-11	#
Specific Conductance	278	umhos/cm	5	SM2510B-2011	#
Sulfate	5.7	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	209	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.50	mg/L	0.50	SM5310B-14	#
Turbidity	1.1	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP003W	Collected	07/18/2025 09:01
Lab Sample ID	3426401001	Lab Receipt	07/18/2025 12:45

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	57.01		Feet		Field	1	07/18/2025 09:01	EMP	B
Dissolved Oxygen	8.86		mg/L	0.01	Field	1	07/18/2025 09:01	EMP	B
Elev Top MW Casing above MSL	524.21		Feet		Field	1	07/18/2025 09:01	EMP	B
Flow Rate	1.86		gal/min		Field	1	07/18/2025 09:01	EMP	B
Ground Water Elevation	467.20		ft/MSL		Field	1	07/18/2025 09:01	EMP	B
Oxidation-Reduction Potential	301		mV		Field	1	07/18/2025 09:01	EMP	B
pH, Field (SM4500B)	5.57		pH_Units		Field	1	07/18/2025 09:01	EMP	B
Sample Depth	100.00		Feet		Field	1	07/18/2025 09:01	EMP	B
Specific Conductance, Field	280		umhos/cm	1	Field	1	07/18/2025 09:01	EMP	B
Temperature	14.76		Deg. C		Field	1	07/18/2025 09:01	EMP	B
Total Well Depth	140.00		Feet		Field	1	07/18/2025 09:01	EMP	B
Turbidity, Field	ND	ND	NTU	1	Field	1	07/18/2025 09:01	EMP	B
Volume in Water Column	122.00		Gallons		Field	1	07/18/2025 09:01	EMP	B
Water Level After Purge	74.83		Feet		Field	1	07/18/2025 09:01	EMP	B
Well Volumes Purged	1.75		Vol		Field	1	07/18/2025 09:01	EMP	B

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	19.7		mg/L	0.11	SW846 6010C	1	07/30/2025 17:21	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	07/30/2025 17:21	MSY	J1
Magnesium, Total	7.3		mg/L	0.11	SW846 6010C	1	07/30/2025 17:21	MSY	J1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	07/30/2025 17:21	MSY	J1
Potassium, Total	1.5		mg/L	0.56	SW846 6010C	1	07/30/2025 17:21	MSY	J1
Sodium, Total	18.8		mg/L	0.56	SW846 6010C	1	07/30/2025 17:21	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
1,1-Dichloroethane	1.8		ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/26/2025 00:30	PDK	E

Results

Client Sample ID	CWMP003W	Collected	07/18/2025 09:01
Lab Sample ID	3426401001	Lab Receipt	07/18/2025 12:45

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	07/26/2025 00:30	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	07/26/2025 00:30	
Dibromofluoromethane	1868-53-7	92.4%	78 – 116	07/26/2025 00:30	
Toluene-d8	2037-26-5	98.7%	76 – 127	07/26/2025 00:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	22		mg/L	5	SM2320B-2011	1	07/23/2025 16:56	MYM	C
Alkalinity, Total	22	1	mg/L	5	SM2320B-2011	1	07/23/2025 16:56	MYM	C
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/29/2025 11:57	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/22/2025 10:50	KMS	A
Chloride	52.9		mg/L	2.0	EPA 300.0	2	07/18/2025 23:29	J1W	C
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/18/2025 23:29	J1W	C
Nitrate-N	5.3		mg/L	1.0	EPA 300.0	2	07/18/2025 23:29	J1W	C
pH	7.09	2	pH_Units		S4500HB-11	1	07/23/2025 16:56	MYM	C
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 18:20	AKH	I
Specific Conductance	278		umhos/cm	5	SM2510B-2011	1	07/22/2025 07:40	MYM	C
Sulfate	5.7		mg/L	2.0	EPA 300.0	2	07/18/2025 23:29	J1W	C
Total Dissolved Solids	209		mg/L	25	SM2540C-15	1	07/23/2025 15:45	RAG	C
Total Organic Carbon (TOC)	0.50		mg/L	0.50	SM5310B-14	1	07/26/2025 02:37	PAG	G
Turbidity	1.1		NTU	0.30	SM2130B-2011	1	07/19/2025 08:54	NPF	C

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3426401001	CWMP003W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		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 9066	SW846 9066	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3426401001	CWMP003W	N/A	N/A	N/A		Field	1455685
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1456041
		N/A	N/A	N/A		EPA 300.0	1454317
		N/A	N/A	N/A		EPA 410.4	1455257
		N/A	N/A	N/A		S4500HB-11	1455356
		N/A	N/A	N/A		SM 4500-NH3G	1456460
		N/A	N/A	N/A		SM2130B-2011	1454637
		N/A	N/A	N/A		SM2320B-2011	1455356
		N/A	N/A	N/A		SM2510B-2011	1454326
		N/A	N/A	N/A		SM2540C-15	1455447
		N/A	N/A	N/A		SM5310B-14	1455963
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729

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.

3426401
Logged By: SLS
PM: SJB

01 of

(Lab Use Only)

Temp Taken By: Therm ID: WO Temp (°C) 1°

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Paired Wells Form 19
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

Date Required: **Approved?**
Email? [x] dbrown@lcswma.org

Container Type	AG	AN	CG			P	P	P	P
Container Size	40ml	125ml	40ml			250ml	125ml	1L	500ml
Preservative	HCL	H2SO4	HCL			H2SO4	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	Phenols	River Road VOCs	FM	Sample Debth for AUX Data	NH3-N, COD	Total Metals Ca, Fe, Mn, Mg, K, Na	CL, FI, NO3, pH, SpC, SO4, TDS, Tb	Alkalinity -, Bicarbonate
1	CWMP003W	7-18-25	0901		G	GW	2	1	2	x	x	1	2	1	1
2									3						
3															
4															
5															
6															
7															
8															
9															
10															

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

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

Sample/COC Remarks

Contains Short Hold Testing YES NO

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

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
7-18-25	1245	1	ALS	2	DAG/ALS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Middletown Sample Condition Form

Client: Lancaster County Workorder: 3426401

Temp °C: 1° Therm ID: 649 Ice? (Y) N N/A Initials & Date: DB 7/18/25

Fedex UPS Client (ALS) Other Tracking #:

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

[1] *If No, provide comment*

Rad Screen (uCi): _____

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

Review Comments:

_____

_____

_____

7/31/2025 5:39 PM

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

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

Analytical Results Report For

Lancaster County Solid Waste Authority

Project 3rd QTR 2025 GWMP-FORM 19Q
Workorder 3425591
Report ID 444408 on 7/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 15, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
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
3425591001	CWMP016W	Ground Water	07/15/2025 10:33	07/15/2025 15:05	EMP	ALS Environmental-Middletown
3425591002	CWMP010W	Ground Water	07/15/2025 11:54	07/15/2025 15:05	EMP	ALS Environmental-Middletown
3425591003	CWMP009W	Ground Water	07/15/2025 12:37	07/15/2025 15:05	EMP	ALS Environmental-Middletown
3425591004	CWMP008W	Ground Water	07/15/2025 13:31	07/15/2025 15:05	EMP	ALS Environmental-Middletown
3425591005	Trip Blank	Water	07/15/2025 15:05	07/15/2025 15:05	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The QC sample type DUP for method SM2540C-15 was outside the control limits for the analyte Total Dissolved Solids. The RPD was reported as 5.83 and the upper control limit is 5.
4	Due to sample matrix interferences, matrix spike recovery was outside of the established control limits.

Detected Results Summary

Client Sample ID	CWMP016W	Collected	07/15/2025 10:33
Lab Sample ID	3425591001	Lab Receipt	07/15/2025 15:05

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	6.67	Feet		Field	#
Dissolved Oxygen	9.36	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	311.97	Feet		Field	#
Flow Rate	1.94	gal/min		Field	#
Ground Water Elevation	305.30	ft/MSL		Field	#
Oxidation-Reduction Potential	324	mV		Field	#
pH, Field (SM4500B)	4.88	pH_Units		Field	#
Sample Depth	71.00	Feet		Field	#
Specific Conductance, Field	63	umhos/cm	1	Field	#
Temperature	12.48	Deg. C		Field	#
Total Well Depth	73.52	Feet		Field	#
Volume in Water Column	98.27	Gallons		Field	#
Water Level After Purge	14.70	Feet		Field	#
Well Volumes Purged	1.09	Vol		Field	#
METALS					
Calcium, Total	5.7	mg/L	0.11	SW846 6010C	#
Magnesium, Total	1.4	mg/L	0.11	SW846 6010C	#
Sodium, Total	3.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	8	mg/L	5	SM2320B-2011	#
Alkalinity, Total	8	mg/L	5	SM2320B-2011	#
Chloride	2.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.8	mg/L	1.0	EPA 300.0	#
pH	7.19	pH_Units		S4500HB-11	#
Specific Conductance	64	umhos/cm	5	SW846 9050A	#
Sulfate	9.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	54	mg/L	25	SM2540C-15	#
Turbidity	2.2	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP010W	Collected	07/15/2025 11:54
Lab Sample ID	3425591002	Lab Receipt	07/15/2025 15:05

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	8.32	Feet		Field	#
Dissolved Oxygen	5.75	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	360.90	Feet		Field	#
Flow Rate	0.26	gal/min		Field	#
Ground Water Elevation	352.58	ft/MSL		Field	#
Oxidation-Reduction Potential	184	mV		Field	#
pH, Field (SM4500B)	6.12	pH_Units		Field	#
Sample Depth	17.00	Feet		Field	#
Specific Conductance, Field	307	umhos/cm	1	Field	#
Temperature	22.24	Deg. C		Field	#
Total Well Depth	19.60	Feet		Field	#
Turbidity, Field	2	NTU	1	Field	#
Volume in Water Column	7.33	Gallons		Field	#
Water Level After Purge	10.83	Feet		Field	#
Well Volumes Purged	1.42	Vol		Field	#
METALS					
Calcium, Total	22.7	mg/L	0.11	SW846 6010C	#
Iron, Total	0.14	mg/L	0.067	SW846 6010C	#
Magnesium, Total	14.1	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.012	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.7	mg/L	0.56	SW846 6010C	#
Sodium, Total	22.8	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	83	mg/L	5	SM2320B-2011	#
Alkalinity, Total	83	mg/L	5	SM2320B-2011	#
Chloride	22.0	mg/L	2.0	EPA 300.0	#
Nitrate-N	7.2	mg/L	1.0	EPA 300.0	#
pH	8.02	pH_Units		S4500HB-11	#
Specific Conductance	310	umhos/cm	5	SW846 9050A	#
Sulfate	15.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	212	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.9	mg/L	0.50	SW846 9060A	#
Turbidity	3.5	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP009W	Collected	07/15/2025 12:37
Lab Sample ID	3425591003	Lab Receipt	07/15/2025 15:05

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	8.68	Feet		Field	#
Dissolved Oxygen	0.02	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	404.20	Feet		Field	#
Flow Rate	1.61	gal/min		Field	#
Ground Water Elevation	395.52	ft/MSL		Field	#
Oxidation-Reduction Potential	-41	mV		Field	#
pH, Field (SM4500B)	5.98	pH_Units		Field	#
Sample Depth	16.00	Feet		Field	#
Specific Conductance, Field	3175	umhos/cm	1	Field	#
Temperature	15.30	Deg. C		Field	#
Total Well Depth	19.70	Feet		Field	#
Volume in Water Column	7.16	Gallons		Field	#
Water Level After Purge	10.70	Feet		Field	#
Well Volumes Purged	2.70	Vol		Field	#
METALS					
Calcium, Total	188	mg/L	0.11	SW846 6010C	#
Iron, Total	36.8	mg/L	0.067	SW846 6010C	#
Magnesium, Total	93.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	12.9	mg/L	0.0056	SW846 6010C	#
Potassium, Total	33.1	mg/L	0.56	SW846 6010C	#
Sodium, Total	222	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.2	ug/L	1.0	SW846 8260B	#
Benzene	2.2	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	538	mg/L	50	SM2320B-2011	#
Alkalinity, Total	538	mg/L	50	SM2320B-2011	#
Ammonia-N, Low Level	27.8	mg/L	2.50	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	112	mg/L	15	EPA 410.4	#
Chloride	690	mg/L	10.0	EPA 300.0	#
pH	7.87	pH_Units		S4500HB-11	#
Sulfate	8.5	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1840	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	40.1	mg/L	5.0	SW846 9060A	#
Turbidity	16	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP008W	Collected	07/15/2025 13:31
Lab Sample ID	3425591004	Lab Receipt	07/15/2025 15:05

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	1.52	Feet		Field	#
Dissolved Oxygen	0.14	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	422.30	Feet		Field	#
Flow Rate	0.92	gal/min		Field	#
Ground Water Elevation	420.78	ft/MSL		Field	#
Oxidation-Reduction Potential	-19	mV		Field	#
pH, Field (SM4500B)	6.12	pH_Units		Field	#
Sample Depth	19.00	Feet		Field	#
Specific Conductance, Field	654	umhos/cm	1	Field	#
Temperature	15.63	Deg. C		Field	#
Total Well Depth	22.80	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	3.40	Gallons		Field	#
Water Level After Purge	12.72	Feet		Field	#
Well Volumes Purged	3.24	Vol		Field	#
METALS					
Calcium, Total	53.7	mg/L	0.11	SW846 6010C	#
Iron, Total	17.6	mg/L	0.067	SW846 6010C	#
Magnesium, Total	24.2	mg/L	0.11	SW846 6010C	#
Manganese, Total	12.1	mg/L	0.0056	SW846 6010C	#
Potassium, Total	6.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	28.4	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.7	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	292	mg/L	5	SM2320B-2011	#
Alkalinity, Total	292	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	4.38	mg/L	0.10	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	17	mg/L	15	EPA 410.4	#
Chloride	21.9	mg/L	2.0	EPA 300.0	#
pH	7.83	pH_Units		S4500HB-11	#
Specific Conductance	616	umhos/cm	5	SW846 9050A	#
Sulfate	7.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	374	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	6.3	mg/L	1.0	SW846 9060A	#
Turbidity	4.4	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP016W	Collected	07/15/2025 10:33
Lab Sample ID	3425591001	Lab Receipt	07/15/2025 15:05

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	6.67		Feet		Field	1	07/15/2025 10:33	EMP	D
Dissolved Oxygen	9.36		mg/L	0.01	Field	1	07/15/2025 10:33	EMP	D
Elev Top MW Casing above MSL	311.97		Feet		Field	1	07/15/2025 10:33	EMP	D
Flow Rate	1.94		gal/min		Field	1	07/15/2025 10:33	EMP	D
Ground Water Elevation	305.30		ft/MSL		Field	1	07/15/2025 10:33	EMP	D
Oxidation-Reduction Potential	324		mV		Field	1	07/15/2025 10:33	EMP	D
pH, Field (SM4500B)	4.88		pH_Units		Field	1	07/15/2025 10:33	EMP	D
Sample Depth	71.00		Feet		Field	1	07/15/2025 10:33	EMP	D
Specific Conductance, Field	63		umhos/cm	1	Field	1	07/15/2025 10:33	EMP	D
Temperature	12.48		Deg. C		Field	1	07/15/2025 10:33	EMP	D
Total Well Depth	73.52		Feet		Field	1	07/15/2025 10:33	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/15/2025 10:33	EMP	D
Volume in Water Column	98.27		Gallons		Field	1	07/15/2025 10:33	EMP	D
Water Level After Purge	14.70		Feet		Field	1	07/15/2025 10:33	EMP	D
Well Volumes Purged	1.09		Vol		Field	1	07/15/2025 10:33	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	5.7		mg/L	0.11	SW846 6010C	1	07/30/2025 16:57	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	07/30/2025 16:57	MSY	K1
Magnesium, Total	1.4		mg/L	0.11	SW846 6010C	1	07/30/2025 16:57	MSY	K1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	07/30/2025 16:57	MSY	K1
Potassium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	07/30/2025 16:57	MSY	K1
Sodium, Total	3.5		mg/L	0.56	SW846 6010C	1	07/30/2025 16:57	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:23	JTH	H

Results

Client Sample ID	CWMP016W	Collected	07/15/2025 10:33
Lab Sample ID	3425591001	Lab Receipt	07/15/2025 15:05

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	07/24/2025 17:23	
4-Bromofluorobenzene	460-00-4	92.8%	79 – 114	07/24/2025 17:23	
Dibromofluoromethane	1868-53-7	103%	78 – 116	07/24/2025 17:23	
Toluene-d8	2037-26-5	95.8%	76 – 127	07/24/2025 17:23	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	8		mg/L	5	SM2320B-2011	1	07/21/2025 08:30	MYM	B
Alkalinity, Total	8	1	mg/L	5	SM2320B-2011	1	07/21/2025 08:30	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/22/2025 19:27	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/16/2025 11:00	KMS	A
Chloride	2.8		mg/L	2.0	EPA 300.0	2	07/16/2025 12:14	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/16/2025 12:14	J1W	B
Nitrate-N	1.8		mg/L	1.0	EPA 300.0	2	07/16/2025 12:14	J1W	B
pH	7.19	2	pH_Units		S4500HB-11	1	07/21/2025 08:30	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:57	AKH	G
Specific Conductance	64		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	9.5		mg/L	2.0	EPA 300.0	2	07/16/2025 12:14	J1W	B
Total Dissolved Solids	54		mg/L	25	SM2540C-15	1	07/18/2025 12:00	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	07/24/2025 01:10	PAG	E
Turbidity	2.2		NTU	0.30	SM2130B-2011	1	07/16/2025 08:26	NPF	B

Results

Client Sample ID	CWMP010W	Collected	07/15/2025 11:54
Lab Sample ID	3425591002	Lab Receipt	07/15/2025 15:05

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	8.32		Feet		Field	1	07/15/2025 11:54	EMP	D
Dissolved Oxygen	5.75		mg/L	0.01	Field	1	07/15/2025 11:54	EMP	D
Elev Top MW Casing above MSL	360.90		Feet		Field	1	07/15/2025 11:54	EMP	D
Flow Rate	0.26		gal/min		Field	1	07/15/2025 11:54	EMP	D
Ground Water Elevation	352.58		ft/MSL		Field	1	07/15/2025 11:54	EMP	D
Oxidation-Reduction Potential	184		mV		Field	1	07/15/2025 11:54	EMP	D
pH, Field (SM4500B)	6.12		pH_Units		Field	1	07/15/2025 11:54	EMP	D
Sample Depth	17.00		Feet		Field	1	07/15/2025 11:54	EMP	D
Specific Conductance, Field	307		umhos/cm	1	Field	1	07/15/2025 11:54	EMP	D
Temperature	22.24		Deg. C		Field	1	07/15/2025 11:54	EMP	D
Total Well Depth	19.60		Feet		Field	1	07/15/2025 11:54	EMP	D
Turbidity, Field	2		NTU	1	Field	1	07/15/2025 11:54	EMP	D
Volume in Water Column	7.33		Gallons		Field	1	07/15/2025 11:54	EMP	D
Water Level After Purge	10.83		Feet		Field	1	07/15/2025 11:54	EMP	D
Well Volumes Purged	1.42		Vol		Field	1	07/15/2025 11:54	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	22.7		mg/L	0.11	SW846 6010C	1	07/30/2025 16:49	MSY	K1
Iron, Total	0.14		mg/L	0.067	SW846 6010C	1	07/30/2025 16:49	MSY	K1
Magnesium, Total	14.1		mg/L	0.11	SW846 6010C	1	07/30/2025 16:49	MSY	K1
Manganese, Total	0.012		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:49	MSY	K1
Potassium, Total	2.7		mg/L	0.56	SW846 6010C	1	07/30/2025 16:49	MSY	K1
Sodium, Total	22.8		mg/L	0.56	SW846 6010C	1	07/30/2025 16:49	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/24/2025 17:43	JTH	H

Results

Client Sample ID	CWMP010W	Collected	07/15/2025 11:54
Lab Sample ID	3425591002	Lab Receipt	07/15/2025 15:05

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	07/24/2025 17:43	
4-Bromofluorobenzene	460-00-4	88.8%	79 – 114	07/24/2025 17:43	
Dibromofluoromethane	1868-53-7	100%	78 – 116	07/24/2025 17:43	
Toluene-d8	2037-26-5	95.9%	76 – 127	07/24/2025 17:43	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	83		mg/L	5	SM2320B-2011	1	07/21/2025 08:42	MYM	B
Alkalinity, Total	83	1	mg/L	5	SM2320B-2011	1	07/21/2025 08:42	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	07/16/2025 19:49	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	07/16/2025 11:00	KMS	A
Chloride	22.0		mg/L	2.0	EPA 300.0	2	07/16/2025 12:27	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/16/2025 12:27	J1W	B
Nitrate-N	7.2		mg/L	1.0	EPA 300.0	2	07/16/2025 12:27	J1W	B
pH	8.02	2	pH_Units		S4500HB-11	1	07/21/2025 08:42	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 14:53	AKH	G
Specific Conductance	310		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	15.4		mg/L	2.0	EPA 300.0	2	07/16/2025 12:27	J1W	B
Total Dissolved Solids	212	3	mg/L	25	SM2540C-15	1	07/18/2025 12:00	RAG	B
Total Organic Carbon (TOC)	2.9		mg/L	0.50	SW846 9060A	1	07/25/2025 03:33	PAG	E
Turbidity	3.5		NTU	0.30	SM2130B-2011	1	07/16/2025 08:26	NPF	B

Results

Client Sample ID	CWMP009W	Collected	07/15/2025 12:37
Lab Sample ID	3425591003	Lab Receipt	07/15/2025 15:05

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	8.68		Feet		Field	1	07/15/2025 12:37	EMP	D
Dissolved Oxygen	0.02		mg/L	0.01	Field	1	07/15/2025 12:37	EMP	D
Elev Top MW Casing above MSL	404.20		Feet		Field	1	07/15/2025 12:37	EMP	D
Flow Rate	1.61		gal/min		Field	1	07/15/2025 12:37	EMP	D
Ground Water Elevation	395.52		ft/MSL		Field	1	07/15/2025 12:37	EMP	D
Oxidation-Reduction Potential	-41		mV		Field	1	07/15/2025 12:37	EMP	D
pH, Field (SM4500B)	5.98		pH_Units		Field	1	07/15/2025 12:37	EMP	D
Sample Depth	16.00		Feet		Field	1	07/15/2025 12:37	EMP	D
Specific Conductance, Field	3175		umhos/cm	1	Field	1	07/15/2025 12:37	EMP	D
Temperature	15.30		Deg. C		Field	1	07/15/2025 12:37	EMP	D
Total Well Depth	19.70		Feet		Field	1	07/15/2025 12:37	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	07/15/2025 12:37	EMP	D
Volume in Water Column	7.16		Gallons		Field	1	07/15/2025 12:37	EMP	D
Water Level After Purge	10.70		Feet		Field	1	07/15/2025 12:37	EMP	D
Well Volumes Purged	2.70		Vol		Field	1	07/15/2025 12:37	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	188		mg/L	0.11	SW846 6010C	1	07/30/2025 16:47	MSY	K1
Iron, Total	36.8		mg/L	0.067	SW846 6010C	1	07/30/2025 16:47	MSY	K1
Magnesium, Total	93.4		mg/L	0.11	SW846 6010C	1	07/30/2025 16:47	MSY	K1
Manganese, Total	12.9		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:47	MSY	K1
Potassium, Total	33.1		mg/L	0.56	SW846 6010C	1	07/30/2025 16:47	MSY	K1
Sodium, Total	222		mg/L	0.56	SW846 6010C	1	07/30/2025 16:47	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
1,1-Dichloroethane	1.2		ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Benzene	2.2		ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:25	IXK	H

Results

Client Sample ID	CWMP009W	Collected	07/15/2025 12:37
Lab Sample ID	3425591003	Lab Receipt	07/15/2025 15:05

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.3%	62 – 133	07/25/2025 15:25	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	07/25/2025 15:25	
Dibromofluoromethane	1868-53-7	91.5%	78 – 116	07/25/2025 15:25	
Toluene-d8	2037-26-5	96.1%	76 – 127	07/25/2025 15:25	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	538		mg/L	50	SM2320B-2011	10	07/23/2025 15:29	MYM	B
Alkalinity, Total	538	1	mg/L	50	SM2320B-2011	10	07/23/2025 15:29	MYM	B
Ammonia-N, Low Level	27.8		mg/L	2.50	SM 4500-NH3G	25	07/24/2025 18:28	AYS	A
Chemical Oxygen Demand (COD)	112		mg/L	15	EPA 410.4	1	07/16/2025 11:00	KMS	A
Chloride	690		mg/L	10.0	EPA 300.0	10	07/18/2025 20:41	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	07/16/2025 12:40	J1W	B
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	07/16/2025 12:40	J1W	B
pH	7.87	2	pH_Units		S4500HB-11	1	07/21/2025 08:54	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	07/24/2025 15:03	AKH	G
Specific Conductance	ND	ND	umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	8.5		mg/L	5.0	EPA 300.0	5	07/16/2025 12:40	J1W	B
Total Dissolved Solids	1840		mg/L	25	SM2540C-15	1	07/18/2025 12:00	RAG	B
Total Organic Carbon (TOC)	40.1		mg/L	5.0	SW846 9060A	10	07/25/2025 03:33	PAG	E
Turbidity	16		NTU	0.30	SM2130B-2011	1	07/16/2025 08:26	NPF	B

Results

Client Sample ID	CWMP008W	Collected	07/15/2025 13:31
Lab Sample ID	3425591004	Lab Receipt	07/15/2025 15:05

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	1.52		Feet		Field	1	07/15/2025 13:31	EMP	D
Dissolved Oxygen	0.14		mg/L	0.01	Field	1	07/15/2025 13:31	EMP	D
Elev Top MW Casing above MSL	422.30		Feet		Field	1	07/15/2025 13:31	EMP	D
Flow Rate	0.92		gal/min		Field	1	07/15/2025 13:31	EMP	D
Ground Water Elevation	420.78		ft/MSL		Field	1	07/15/2025 13:31	EMP	D
Oxidation-Reduction Potential	-19		mV		Field	1	07/15/2025 13:31	EMP	D
pH, Field (SM4500B)	6.12		pH_Units		Field	1	07/15/2025 13:31	EMP	D
Sample Depth	19.00		Feet		Field	1	07/15/2025 13:31	EMP	D
Specific Conductance, Field	654		umhos/cm	1	Field	1	07/15/2025 13:31	EMP	D
Temperature	15.63		Deg. C		Field	1	07/15/2025 13:31	EMP	D
Total Well Depth	22.80		Feet		Field	1	07/15/2025 13:31	EMP	D
Turbidity, Field	1		NTU	1	Field	1	07/15/2025 13:31	EMP	D
Volume in Water Column	3.40		Gallons		Field	1	07/15/2025 13:31	EMP	D
Water Level After Purge	12.72		Feet		Field	1	07/15/2025 13:31	EMP	D
Well Volumes Purged	3.24		Vol		Field	1	07/15/2025 13:31	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	53.7		mg/L	0.11	SW846 6010C	1	07/30/2025 16:59	MSY	K1
Iron, Total	17.6		mg/L	0.067	SW846 6010C	1	07/30/2025 16:59	MSY	K1
Magnesium, Total	24.2		mg/L	0.11	SW846 6010C	1	07/30/2025 16:59	MSY	K1
Manganese, Total	12.1		mg/L	0.0056	SW846 6010C	1	07/30/2025 16:59	MSY	K1
Potassium, Total	6.9		mg/L	0.56	SW846 6010C	1	07/30/2025 16:59	MSY	K1
Sodium, Total	28.4		mg/L	0.56	SW846 6010C	1	07/30/2025 16:59	MSY	K1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
1,1-Dichloroethane	1.7		ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 15:45	IXK	H

Results

Client Sample ID	CWMP008W	Collected	07/15/2025 13:31
Lab Sample ID	3425591004	Lab Receipt	07/15/2025 15:05

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	07/25/2025 15:45	
4-Bromofluorobenzene	460-00-4	97.2%	79 – 114	07/25/2025 15:45	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	07/25/2025 15:45	
Toluene-d8	2037-26-5	99%	76 – 127	07/25/2025 15:45	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	292		mg/L	5	SM2320B-2011	1	07/21/2025 09:07	MYM	B
Alkalinity, Total	292	1	mg/L	5	SM2320B-2011	1	07/21/2025 09:07	MYM	B
Ammonia-N, Low Level	4.38		mg/L	0.10	SM 4500-NH3G	1	07/22/2025 20:10	AYS	A
Chemical Oxygen Demand (COD)	17		mg/L	15	EPA 410.4	1	07/16/2025 11:00	KMS	A
Chloride	21.9		mg/L	2.0	EPA 300.0	2	07/16/2025 13:32	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	07/16/2025 13:32	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	07/16/2025 13:32	J1W	B
pH	7.83	2	pH_Units		S4500HB-11	1	07/21/2025 09:07	MYM	B
Phenolics	ND	ND,4	mg/L	0.004	SW846 9066	1	07/24/2025 14:03	AKH	G
Specific Conductance	616		umhos/cm	5	SW846 9050A	1	07/22/2025 07:40	MYM	B
Sulfate	7.0		mg/L	2.0	EPA 300.0	2	07/16/2025 13:32	J1W	B
Total Dissolved Solids	374		mg/L	25	SM2540C-15	1	07/18/2025 12:00	RAG	B
Total Organic Carbon (TOC)	6.3		mg/L	1.0	SW846 9060A	2	07/25/2025 03:33	PAG	E
Turbidity	4.4		NTU	0.30	SM2130B-2011	1	07/16/2025 08:26	NPF	B

Results

Client Sample ID	Trip Blank	Collected	07/15/2025 15:05
Lab Sample ID	3425591005	Lab Receipt	07/15/2025 15:05

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	07/25/2025 14:44	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	07/25/2025 14:44	
4-Bromofluorobenzene	460-00-4	95.8%	79 – 114	07/25/2025 14:44	
Dibromofluoromethane	1868-53-7	96.8%	78 – 116	07/25/2025 14:44	
Toluene-d8	2037-26-5	100%	76 – 127	07/25/2025 14:44	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3425591001	CWMP016W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425591002	CWMP010W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425591003	CWMP009W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425591004	CWMP008W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3425591005	Trip Blank	SW846 8260B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3425591001	CWMP016W	N/A	N/A	N/A		Field	1455688
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453779
		N/A	N/A	N/A		EPA 410.4	1453791
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1453781
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454119
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455519
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425591002	CWMP010W	N/A	N/A	N/A		Field	1455688
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455734
		N/A	N/A	N/A		EPA 300.0	1453779
		N/A	N/A	N/A		EPA 410.4	1453791
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1453350
		N/A	N/A	N/A		SM2130B-2011	1453781
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454119
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455802
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425591003	CWMP009W	N/A	N/A	N/A		Field	1455688
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1453779
		N/A	N/A	N/A		EPA 300.0	1454317
		N/A	N/A	N/A		EPA 410.4	1453791
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454448
		N/A	N/A	N/A		SM2130B-2011	1453781
		N/A	N/A	N/A		SM2320B-2011	1455356
		N/A	N/A	N/A		SM2540C-15	1454119
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455802
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425591004	CWMP008W	N/A	N/A	N/A		Field	1455688
		SW846 3015A	1455141	07/21/2025 14:46	RMH	SW846 6010C	1456580
		N/A	N/A	N/A		SW846 8260B	1455986
		N/A	N/A	N/A		EPA 300.0	1453779
		N/A	N/A	N/A		EPA 410.4	1453791
		N/A	N/A	N/A		S4500HB-11	1454482
		N/A	N/A	N/A		SM 4500-NH3G	1454442
		N/A	N/A	N/A		SM2130B-2011	1453781
		N/A	N/A	N/A		SM2320B-2011	1454482
		N/A	N/A	N/A		SM2540C-15	1454119
		N/A	N/A	N/A		SW846 9050A	1454326
		N/A	N/A	N/A		SW846 9060A	1455802
		SW846 9066	1455728	07/24/2025 10:46	AKH	SW846 9066	1455729
3425591005	Trip Blank	N/A	N/A	N/A		SW846 8260B	1455986

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.

3425591

Logged By: SLS
PM: SJB

91 of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Creswell/GWMP Form 19Q
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

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

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	O-OH	8260 VOCs - Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, HCO3	FM	Sample Debth for AUX Data	NH3-N, COD	Total Metals Ca, Fe, Mn, Mg, K, Na	
							Enter Number of Containers Per Sample or Field Results Below.									
1	CWMP016W	7-15-25	1033		G	GW	2	1	3	1	1	x	x	1	2	
2	CWMP010W	7-15-25	1154		G	GW	2	1	3	1	1	X	X	1	2	
3	CWMP009W	7-15-25	1257		G	GW	2	1	3	1	1	X	X	1	2	
4	CWMP008W	7-15-25	1331		G	GW	2	1	3	1	1	X	X	1	2	
5	trip blank	7-15-25	NA						3							
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	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below

Client contact:
Date/Tech:

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

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

Sample/COC Remarks

Contains Short Hold Testing YES NO

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

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
7-15-25	1505	1	ALS	2	MRTS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Middletown Sample Condition Form

Client Lancaster County Solid Waste Workorder 3425591

Temp °C 1 Therm ID 569 Ice? (Y) N N/A Initials & Date MP 7/15/25

Fedex UPS Client (ALS) Other Tracking # _____

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

[1] *If No, provide comment*

Rad Screen (uCi) _____

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

Review Comments:

_____

_____

_____